

BUFR Reference Manual

Milan Dragosavac

Operations Department

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European Centre for Medium-Range Weather Forecasts
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European Centre for Medium-Range Weather Forecasts
Shinfield Park, Reading, RG2 9AX, United Kingdom

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1 Introduction

The Bufr reference Manual is compiled to accompany Bufr User's Guide Manual. It describes the latest Bufr Tables and ECMWF observation types and subtypes. For each subtype there is a template describing the observation.

2 BUFR Tables

2.1 Bufr Table A

This table contains Bufr categories which shall be packed in the 9th byte of the Section 1.

| Code figure | Meaning |
|-------------|--|
| 0 | Surface data - land |
| 1 | Surface data - sea |
| 2 | Vertical soundings (other than satellite) |
| 3 | Vertical soundings (satellite) |
| 4 | Single level upper-air data (other than satellite) |
| 5 | Single level upper-air data (satellite) |
| 6 | Radar data |
| 7 | Synoptic features |
| 8 | Physical/chemical constituents |
| 9 | Dispersal and transport |
| 10 | Radiological data |
| 11 | Bufr tables, complete replacement or update |
| 12 | Surface data (satellite) |
| 13 - 19 | Reserved |
| 20 | Status information |
| 21 | Radiance (satellite measured) |
| 22 - 30 | Reserved |
| 31 | Oceanographic data |
| 32 - 100 | Reserved |
| 101 | Image data |
| 102 - 239 | Reserved |
| 240 - 254 | For experimental use |
| 255 | Indicator for local use, with sub-category |

2.2 Bufr Table B

The latest Bufr Table B version is 13

| | | | | | |
|--------|--|------------------------|---|-------------|-----|
| 000001 | TABLE A: ENTRY | CCITTIA5 | 0 | 0 | 24 |
| 000002 | TABLE A: DATA CATEGORY DESCRIPTION, LINE 1 | CCITTIA5 | 0 | 0 | 256 |
| 000003 | TABLE A: DATA CATEGORY DESCRIPTION, LINE 2 | CCITTIA5 | 0 | 0 | 256 |
| 000004 | BUFR/CREX MASTER TABLE | CCITTIA5 | 0 | 0 | 16 |
| 000005 | BUFR/CREX EDITION NUMBER | CCITTIA5 | 0 | 0 | 24 |
| 000006 | BUFR MASTER TABLE VERSION NUMBER | CCITTIA5 | 0 | 0 | 16 |
| 000007 | CREX MASTER TABLE VERSION NUMBER | CCITTIA5 | 0 | 0 | 16 |
| 000008 | BUFR LOCAL TABLE VERSION NUMBER | CCITTIA5 | 0 | 0 | 16 |
| 000010 | F DESCRIPTOR TO BE ADDED OR DEFINED | CCITTIA5 | 0 | 0 | 8 |
| 000011 | X DESCRIPTOR TO BE ADDED OR DEFINED | CCITTIA5 | 0 | 0 | 16 |
| 000012 | Y DESCRIPTOR TO BE ADDED OR DEFINED | CCITTIA5 | 0 | 0 | 24 |
| 000013 | ELEMENT NAME, LINE 1 | CCITTIA5 | 0 | 0 | 256 |
| 000014 | ELEMENT NAME, LINE 2 | CCITTIA5 | 0 | 0 | 256 |
| 000015 | UNITS NAME | CCITTIA5 | 0 | 0 | 192 |
| 000016 | UNITS SCALE SIGN | CCITTIA5 | 0 | 0 | 8 |
| 000017 | UNITS SCALE | CCITTIA5 | 0 | 0 | 24 |
| 000018 | UNITS REFERENCE SIGN | CCITTIA5 | 0 | 0 | 8 |
| 000019 | UNITS REFERENCE VALUE | CCITTIA5 | 0 | 0 | 80 |
| 000020 | ELEMENT DATA WIDTH | CCITTIA5 | 0 | 0 | 24 |
| 000030 | DESCRIPTOR DEFINING SEQUENCE | CCITTIA5 | 0 | 0 | 48 |
| 001001 | WMO BLOCK NUMBER | NUMERIC | 0 | 0 | 7 |
| 001002 | WMO STATION NUMBER | NUMERIC | 0 | 0 | 10 |
| 001003 | WMO REGION NUMBER/GEOGRAPHICAL AREA | CODE TABLE 1003 | 0 | 0 | 3 |
| 001004 | WMO REGION SUB-AREA (SEE NOTE 9) | NUMERIC | 0 | 0 | 3 |
| 001005 | BUOY/PLATFORM IDENTIFIER | NUMERIC | 0 | 0 | 17 |
| 001006 | AIRCRAFT FLIGHT NUMBER | CCITTIA5 | 0 | 0 | 64 |
| 001007 | SATELLITE IDENTIFIER | CODE TABLE 1007 | 0 | 0 | 10 |
| 001008 | AIRCRAFT REGISTRATION NUMBER OR OTHER IDENTIFICATION | CCITTIA5 | 0 | 0 | 64 |
| 001009 | TYPE OF COMMERCIAL AIRCRAFT | CCITTIA5 | 0 | 0 | 64 |
| 001010 | STATIONARY BUOY PLATFORM IDENTIFIER; E.G. C-MAN BUOYS | CCITTIA5 | 0 | 0 | 64 |
| 001011 | SHIP OR MOBILE LAND STATION IDENTIFIER | CCITTIA5 | 0 | 0 | 72 |
| 001012 | DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM** | DEGREE TRUE | 0 | 0 | 9 |
| 001013 | SPEED OF MOTION OF MOVING OBSERVING PLATFORM* | M/S | 0 | 0 | 10 |
| 001014 | PLATFORM DRIFT SPEED (HIGH PRECISION) | M/S | 2 | 0 | 10 |
| 001015 | STATION OR SITE NAME | CCITTIA5 | 0 | 0 | 160 |
| 001018 | SHORT STATION OR SITE NAME | CCITTIA5 | 0 | 0 | 40 |
| 001019 | LONG STATION OR SITE NAME | CCITTIA5 | 0 | 0 | 256 |
| 001020 | WMO REGION SUB-AREA | NUMERIC | 0 | 0 | 4 |
| 001021 | SYNOPTIC FEATURE IDENTIFIER | NUMERIC | 0 | 0 | 14 |
| 001022 | NAME OF FEATURE (SEE NOTE 11) | CCITTIA5 | 0 | 0 | 224 |
| 001023 | OBSERVATION SEQUENCE NUMBER | NUMERIC | 0 | 0 | 9 |
| 001025 | STORM IDENTIFIER | CCITTIA5 | 0 | 0 | 24 |
| 001026 | WMO STORM NAME | CCITTIA5 | 0 | 0 | 64 |
| 001027 | WMO LONG STORM NAME | CCITTIA5 | 0 | 0 | 80 |
| 001031 | IDENTIFICATION OF ORIGINATING/GENERATING CENTRE (SEE NOTE 10) | CODE TABLE 1031 | 0 | 0 | 16 |
| 001032 | GENERATING APPLICATION | CODE TABLE 1032 | 0 | 0 | 8 |
| 001033 | IDENTIFICATION OF ORIGINATING/GENERATING CENTRE | CODE TABLE 1033 | 0 | 0 | 8 |
| 001034 | IDENTIFICATION OF ORIGINATING/GENERATING SUB-CENTRE | CODE TABLE 1034 | 0 | 0 | 8 |
| 001035 | ORIGINATING CENTRE | COMMON CODE TABLE C-11 | 0 | 0 | 16 |
| 001036 | AGENCY IN CHARGE OF OPERATING THE OBSERVING PLATFORM | CODE TABLE 1036 | 0 | 0 | 20 |
| 001041 | ABSOLUTE PLATFORM VELOCITY - FIRST COMPONENT (SEE NOTE 6) | M/S | 5 | -1073741824 | 31 |
| 001042 | ABSOLUTE PLATFORM VELOCITY - SECOND COMPONENT (SEE NOTE 6) | M/S | 5 | -1073741824 | 31 |
| 001043 | ABSOLUTE PLATFORM VELOCITY - THIRD COMPONENT (SEE NOTE 6) | M/S | 5 | -1073741824 | 31 |
| 001050 | PLATFORM TRANSMITTER ID NUMBER | NUMERIC | 0 | 0 | 17 |
| 001051 | PLATFORM TRANSMITTER ID NUMBER | CCITTIA5 | 0 | 0 | 96 |
| 001060 | AIRCRAFT REPORTING POINT (BEACON IDENTIFIER) | CCITTIA5 | 0 | 0 | 64 |
| 001062 | SHORT ICAO LOCATION INDICATOR | CCITTIA5 | 0 | 0 | 32 |
| 001063 | ICAO LOCATION INDICATOR | CCITTIA5 | 0 | 0 | 64 |
| 001064 | RUNWAY DESIGNATOR | CCITTIA5 | 0 | 0 | 32 |
| 001075 | TIDE STATION IDENTIFICATION | CCITTIA5 | 0 | 0 | 40 |
| 001080 | SHIP LINE NUMBER ACCORDING TO SOOP | CCITTIA5 | 0 | 0 | 32 |
| 001081 | RADIOSONDE SERIAL NUMBER | CCITTIA5 | 0 | 0 | 160 |
| 001082 | RADIOSONDE ASCENSION NUMBER (SEE NOTE 12) | NUMERIC | 0 | 0 | 14 |
| 001083 | RADIOSONDE RELEASE NUMBER (SEE NOTE 12) | NUMERIC | 0 | 0 | 3 |
| 001085 | OBSERVING PLATFORM MANUFACTURER'S MODEL | CCITTIA5 | 0 | 0 | 160 |
| 001086 | OBSERVING PLATFORM MANUFACTURER'S SERIAL NUMBER | CCITTIA5 | 0 | 0 | 256 |
| 001087 | WMO MARINE OBSERVING PLATFORM EXTENDED IDENTIFIER | NUMERIC | 0 | 0 | 23 |
| 001090 | TECHNIQUE FOR MAKING UP INITIAL PERTURBATIONS | CODE TABLE 1090 | 0 | 0 | 8 |
| 001091 | ENSEMBLE MEMBER NUMBER | NUMERIC | 0 | 0 | 10 |
| 001092 | TYPE OF ENSEMBLE FORECAST | CODE TABLE 1092 | 0 | 0 | 8 |
| 001093 | BALLOON LOT NUMBER | CCITTIA5 | 0 | 0 | 96 |
| 001094 | WBAN NUMBER | NUMERIC | 0 | 0 | 17 |
| 001095 | OBSERVER IDENTIFICATION | CCITTIA5 | 0 | 0 | 32 |
| 001096 | STATION ACQUISITION | CCITTIA5 | 0 | 0 | 160 |
| 002001 | TYPE OF STATION | CODE TABLE 2001 | 0 | 0 | 2 |
| 002002 | TYPE OF INSTRUMENTATION FOR WIND MEASUREMENT | FLAG TABLE 2002 | 0 | 0 | 4 |
| 002003 | TYPE OF MEASURING EQUIPMENT USED | CODE TABLE 2003 | 0 | 0 | 4 |
| 002004 | TYPE OF INSTRUMENTATION FOR EVAPORATION MEASUREMENT OR TYPE OF C | CODE TABLE 2004 | 0 | 0 | 4 |
| 002005 | PRECISION OF TEMPERATURE OBSERVATION | K | 2 | 0 | 7 |
| 002011 | RADIOSONDE TYPE | CODE TABLE 2011 | 0 | 0 | 8 |
| 002012 | RADIOSONDE COMPUTATIONAL METHOD | CODE TABLE 2012 | 0 | 0 | 4 |
| 002013 | SOLAR AND INFRARED RADIATION CORRECTION | CODE TABLE 2013 | 0 | 0 | 4 |

| | | | | | |
|--------|---|-----------------|----|--------|----|
| 002014 | TRACKING TECHNIQUE/STATUS OF SYSTEM USED | CODE TABLE 2014 | 0 | 0 | 7 |
| 002015 | RADIOSONDE COMPLETENESS | CODE TABLE 2015 | 0 | 0 | 4 |
| 002016 | RADIOSONDE CONFIGURATION | FLAG TABLE 2016 | 0 | 0 | 5 |
| 002019 | SATELLITE INSTRUMENTS | CODE TABLE 2019 | 0 | 0 | 11 |
| 002020 | SATELLITE CLASSIFICATION | CODE TABLE 2020 | 0 | 0 | 9 |
| 002021 | SATELLITE INSTRUMENT DATA USED IN PROCESSING | FLAG TABLE 2021 | 0 | 0 | 9 |
| 002022 | SATELLITE DATA-PROCESSING TECHNIQUE USED | FLAG TABLE 2022 | 0 | 0 | 8 |
| 002023 | SATELLITE DERIVED WIND COMPUTATION METHOD | CODE TABLE 2023 | 0 | 0 | 4 |
| 002024 | INTEGRATED MEAN HUMIDITY COMPUTATIONAL METHOD | CODE TABLE 2024 | 0 | 0 | 4 |
| 002025 | SATELLITE CHANNEL(S) USED IN COMPUTATION | FLAG TABLE 2025 | 0 | 0 | 25 |
| 002026 | CROSS TRACK RESOLUTION | M | 2 | 0 | 12 |
| 002027 | ALONG TRACK RESOLUTION | M | 2 | 0 | 12 |
| 002028 | SEGMENT SIZE AT NADIR IN X DIRECTION | M | 0 | 0 | 18 |
| 002029 | SEGMENT SIZE AT NADIR IN Y DIRECTION | M | 0 | 0 | 18 |
| 002030 | METHOD OF CURRENT MEASUREMENT | CODE TABLE 2030 | 0 | 0 | 3 |
| 002031 | DURATION AND TIME OF CURRENT MEASUREMENT | CODE TABLE 2031 | 0 | 0 | 5 |
| 002032 | INDICATOR FOR DIGITIZATION | CODE TABLE 2032 | 0 | 0 | 2 |
| 002033 | METHOD OF SALINITY/DEPTH MEASUREMENT | CODE TABLE 2033 | 0 | 0 | 3 |
| 002034 | DROGUE TYPE | CODE TABLE 2034 | 0 | 0 | 5 |
| 002035 | CABLE LENGTH | M | 0 | 0 | 9 |
| 002036 | BUOY TYPE | CODE TABLE 2036 | 0 | 0 | 2 |
| 002037 | METHOD OF TIDAL OBSERVATION | CODE TABLE 2037 | 0 | 0 | 3 |
| 002038 | METHOD OF WATER TEMPERATURE AND/OR SALINITY MEASUREMENT | CODE TABLE 2038 | 0 | 0 | 4 |
| 002039 | METHOD OF WET-BULB TEMPERATURE MEASUREMENT | CODE TABLE 2039 | 0 | 0 | 3 |
| 002040 | METHOD OF REMOVING VELOCITY AND MOTION OF PLATFORM FROM CURRENT | CODE TABLE 2040 | 0 | 0 | 4 |
| 002041 | METHOD FOR ESTIMATING REPORTS RELATED TO SYNOPTIC FEATURES | CODE TABLE 2041 | 0 | 0 | 6 |
| 002042 | INDICATOR FOR SEA SURFACE CURRENT SPEED | CODE TABLE 2042 | 0 | 0 | 2 |
| 002044 | INDICATOR FOR METHOD OF CALCULATING SPECTRAL WAVE DATA | CODE TABLE 2044 | 0 | 0 | 4 |
| 002045 | INDICATOR FOR TYPE OF PLATFORM | CODE TABLE 2045 | 0 | 0 | 4 |
| 002046 | WAVE MEASUREMENT INSTRUMENTATION | CODE TABLE 2046 | 0 | 0 | 4 |
| 002048 | SATELLITE SENSOR INDICATOR | CODE TABLE 2048 | 0 | 0 | 4 |
| 002049 | GEOSTATIONARY SATELLITE DATA-PROCESSING TECHNIQUE USED | FLAG TABLE 2049 | 0 | 0 | 8 |
| 002050 | GEOSTATIONARY SOUNDER SATELLITE CHANNELS USED | FLAG TABLE 2050 | 0 | 0 | 20 |
| 002051 | INDICATOR TO SPECIFY OBSERVING METHOD FOR EXTREME TEMPERATURES | CODE TABLE 2051 | 0 | 0 | 4 |
| 002052 | GEOSTATIONARY IMAGER SATELLITE CHANNELS USED | FLAG TABLE 2052 | 0 | 0 | 6 |
| 002053 | GOES-I/M BRIGHTNESS TEMPERATURE CHARACTERISTICS | CODE TABLE 2053 | 0 | 0 | 4 |
| 002054 | GOES-I/M SOUNDINGS PARAMETER CHARACTERISTICS | CODE TABLE 2054 | 0 | 0 | 4 |
| 002055 | GEOSTATIONARY SOUNDINGS STATISTICAL PARAMETERS | CODE TABLE 2055 | 0 | 0 | 4 |
| 002056 | GEOSTATIONARY SOUNDINGS ACCURACY STATISTICS | CODE TABLE 2056 | 0 | 0 | 4 |
| 002057 | ORIGIN OF FIRST GUESS INFORMATION FOR GOES-I/M SOUNDINGS | CODE TABLE 2057 | 0 | 0 | 4 |
| 002058 | VALID TIMES OF FIRST GUESS INFORMATION FOR GOES-I/M SOUNDINGS | CODE TABLE 2058 | 0 | 0 | 4 |
| 002059 | ORIGIN OF ANALYSIS INFORMATION FOR GOES-I/M SOUNDINGS | CODE TABLE 2059 | 0 | 0 | 4 |
| 002060 | ORIGIN OF SURFACE INFORMATION FOR GOES-I/M SOUNDINGS | CODE TABLE 2060 | 0 | 0 | 4 |
| 002061 | AIRCRAFT NAVIGATIONAL SYSTEM | CODE TABLE 2061 | 0 | 0 | 3 |
| 002062 | TYPE OF AIRCRAFT DATA RELAY SYSTEM | CODE TABLE 2062 | 0 | 0 | 4 |
| 002063 | AIRCRAFT ROLL ANGLE | DEGREE | 2 | -18000 | 16 |
| 002064 | AIRCRAFT ROLL ANGLE QUALITY | CODE TABLE 2064 | 0 | 0 | 2 |
| 002065 | ACARS GROUND RECEIVING STATION | CCITTIA5 | 0 | 0 | 40 |
| 002066 | RADIOSONDE GROUND RECEIVING SYSTEM | CODE TABLE 2066 | 0 | 0 | 6 |
| 002067 | RADIOSONDE OPERATING FREQUENCY | Hz | -5 | 0 | 15 |
| 002070 | ORIGINAL SPECIFICATION OF LATITUDE/LONGITUDE | CODE TABLE 2070 | 0 | 0 | 4 |
| 002080 | BALLOON MANUFACTURER | CODE TABLE 2080 | 0 | 0 | 6 |
| 002081 | TYPE OF BALLOON | CODE TABLE 2081 | 0 | 0 | 5 |
| 002082 | WEIGHT OF BALLOON | KG | 3 | 0 | 12 |
| 002083 | TYPE OF BALLOON SHELTER | CODE TABLE 2083 | 0 | 0 | 4 |
| 002084 | TYPE OF GAS USED IN BALLOON | CODE TABLE 2084 | 0 | 0 | 4 |
| 002085 | AMOUNT OF GAS USED IN BALLOON | KG | 3 | 0 | 13 |
| 002086 | BALLOON FLIGHT TRAIN LENGTH | M | 1 | 0 | 10 |
| 002091 | ENTRY SENSOR 4/20 MA | A | 4 | 0 | 10 |
| 002095 | TYPE OF PRESSURE SENSOR | CODE TABLE 2095 | 0 | 0 | 5 |
| 002096 | TYPE OF TEMPERATURE SENSOR | CODE TABLE 2096 | 0 | 0 | 5 |
| 002097 | TYPE OF HUMIDITY SENSOR | CODE TABLE 2097 | 0 | 0 | 5 |
| 002100 | RADAR CONSTANT | dB | 1 | 0 | 12 |
| 002101 | TYPE OF ANTENNA | CODE TABLE 2101 | 0 | 0 | 4 |
| 002102 | ANTENNA HEIGHT ABOVE TOWER BASE | M | 0 | 0 | 8 |
| 002103 | RADOME | FLAG TABLE 2103 | 0 | 0 | 2 |
| 002104 | ANTENNA POLARISATION | CODE TABLE 2104 | 0 | 0 | 4 |
| 002105 | MAXIMUM ANTENNA GAIN | dB | 0 | 0 | 6 |
| 002106 | 3-DB BEAMWIDTH | DEGREE | 1 | 0 | 6 |
| 002107 | SIDELobe SUPPRESSION | dB | 0 | 0 | 6 |
| 002108 | CROSSPOL DISCRIMINATION (ON AXIS) | dB | 0 | 0 | 6 |
| 002109 | ANTENNA SPEED (AZIMUTH) | DEGREE/S | 2 | 0 | 12 |
| 002110 | ANTENNA SPEED (ELEVATION) | DEGREE/S | 2 | 0 | 12 |
| 002111 | RADAR INCIDENCE ANGLE | DEGREE | 1 | 0 | 10 |
| 002112 | RADAR LOOK ANGLE | DEGREE | 1 | 0 | 12 |
| 002113 | NUMBER OF AZIMUTH LOOKS | NUMERIC | 0 | 0 | 4 |
| 002114 | ANTENNA EFFECTIVE SURFACE AREA | M**2 | 0 | 0 | 15 |
| 002115 | TYPE OF SURFACE OBSERVING EQUIPMENT | CODE TABLE 2115 | 0 | 0 | 5 |
| 002116 | PERCENTAGE OF 320 MHZ BAND PROCESSED | % | 0 | 0 | 7 |
| 002117 | PERCENTAGE OF 80 MHZ BAND PROCESSED | % | 0 | 0 | 7 |
| 002118 | PERCENTAGE OF 20 MHZ BAND PROCESSED | % | 0 | 0 | 7 |
| 002119 | RA-2 INSTRUMENT OPERATIONS | CODE TABLE 2119 | 0 | 0 | 3 |
| 002120 | OCEAN WAVE FREQUENCY | Hz | 3 | 0 | 10 |
| 002121 | MEAN FREQUENCY | Hz | -8 | 0 | 7 |
| 002122 | FREQUENCY AGILITY RANGE | Hz | -6 | -128 | 8 |
| 002123 | PEAK POWER | W | -4 | 0 | 7 |
| 002124 | AVERAGE POWER | W | -1 | 0 | 7 |
| 002125 | PULSE REPETITION FREQUENCY | Hz | -1 | 0 | 8 |
| 002126 | PULSE WIDTH | S | 7 | 0 | 6 |
| 002127 | RECEIVER INTERMEDIATE FREQUENCY | Hz | -6 | 0 | 7 |
| 002128 | INTERMEDIATE FREQUENCY BANDWIDTH | Hz | -5 | 0 | 6 |
| 002129 | MINIMUM DETECTABLE SIGNAL | dB | 0 | -150 | 5 |
| 002130 | DYNAMIC RANGE | dB | 0 | 0 | 7 |

| | | | | |
|---|-----------------|----|----------|----|
| 002131 SENSITIVITY TIME CONTROL (STC) | FLAG TABLE 2131 | 0 | 0 | 2 |
| 002132 AZIMUTH POINTING ACCURACY | DEGREE | 2 | 0 | 6 |
| 002133 ELEVATION POINTING ACCURACY | DEGREE | 2 | 0 | 6 |
| 002134 ANTENNA BEAM AZIMUTH | DEGREE | 2 | 0 | 16 |
| 002135 ANTENNA ELEVATION | DEGREE | 2 | -9000 | 15 |
| 002136 RANGE PROCESSED BY RANGE ATTENUATION CORRECTION | M | -3 | 0 | 16 |
| 002140 SATELLITE RADAR BEAM AZIMUTH ANGLE | DEGREE | 0 | 0 | 9 |
| 002141 MEASUREMENT TYPE | CCITTIA5 | 0 | 0 | 24 |
| 002142 OZONE INSTRUMENT SERIAL NUMBER/ IDENTIFICATION | CCITTIA5 | 0 | 0 | 32 |
| 002143 OZONE INSTRUMENT TYPE | CODE TABLE 2143 | 0 | 0 | 7 |
| 002144 LIGHT SOURCE TYPE FOR BREWER SPECTRO PHOTOMETER | CODE TABLE 2144 | 0 | 0 | 4 |
| 002145 WAVE LENGTH SETTING FOR DOBSON INSTRUMENTS | CODE TABLE 2145 | 0 | 0 | 4 |
| 002146 SOURCE CONDITIONS FOR DOBSON INSTRUMENTS | CODE TABLE 2146 | 0 | 0 | 4 |
| 002148 DATA COLLECTION AND/OR LOCATION SYSTEM | CODE TABLE 2148 | 0 | 0 | 5 |
| 002149 TYPE OF DATA BUOY | CODE TABLE 2149 | 0 | 0 | 6 |
| 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION CHANNEL NUMBER | CODE TABLE 2150 | 0 | 0 | 6 |
| 002151 RADIOMETER IDENTIFIER | CODE TABLE 2151 | 0 | 0 | 11 |
| 002152 SATELLITE INSTRUMENT USED IN DATA PROCESSING(6) | FLAG TABLE 2152 | 0 | 0 | 31 |
| 002153 SATELLITE CHANNEL CENTRE FREQUENCY | Hz | -8 | 0 | 26 |
| 002154 SATELLITE CHANNEL BAND WIDTH | Hz | -8 | 0 | 26 |
| 002156 PERCENTAGE OF VALID KU OCEAN RETRACKER MEASUREMENTS | % | 0 | 0 | 7 |
| 002157 PERCENTAGE OF VALID S OCEAN RETRACKER MEASUREMENTS | % | 0 | 0 | 7 |
| 002158 RA-2 INSTRUMENT | FLAG TABLE 2158 | 0 | 0 | 9 |
| 002159 MWR INSTRUMENT | FLAG TABLE 2159 | 0 | 0 | 8 |
| 002160 WAVE LENGTH OF THE RADAR | CODE TABLE 2160 | 0 | 0 | 4 |
| 002163 HEIGHT ASSIGNMENT METHOD | CODE TABLE 2163 | 0 | 0 | 4 |
| 002164 TRACER CORRELATION METHOD | CODE TABLE 2164 | 0 | 0 | 3 |
| 002166 RADIANCE TYPE | CODE TABLE 2166 | 0 | 0 | 4 |
| 002167 RADIANCE COMPUTATIONAL METHOD | CODE TABLE 2167 | 0 | 0 | 4 |
| 002168 HYDROSTATIC PRESSURE OF LOWER END OF CABLE (THERMISTOR STRING) | PA | -3 | 0 | 16 |
| 002169 ANEMOMETER TYPE | CODE TABLE 2169 | 0 | 0 | 4 |
| 002172 PRODUCT TYPE FOR RETRIEVED ATMOSPHERIC GASES | CODE TABLE 2172 | 0 | 0 | 8 |
| 002173 SQUARE OF THE OFF NADIR ANGLE (7) | DEGREE2 | 4 | 0 | 10 |
| 002174 MEAN ACROSS TRACK PIXEL NUMBER | NUMERIC | 0 | 0 | 9 |
| 002175 METHOD OF PRECIPITATION MEASUREMENT | CODE TABLE 2175 | 0 | 0 | 4 |
| 002176 METHOD OF STATE OF GROUND MEASUREMENT | CODE TABLE 2176 | 0 | 0 | 4 |
| 002177 METHOD OF SNOW DEPTH MEASUREMENT | CODE TABLE 2177 | 0 | 0 | 4 |
| 002178 METHOD OF LIQUID CONTENT MEASUREMENT OF PRECIPITATION | CODE TABLE 2178 | 0 | 0 | 4 |
| 002179 TYPE OF SKY CONDITION ALGORITHM | CODE TABLE 2179 | 0 | 0 | 4 |
| 002180 MAIN PRESENT WEATHER DETECTING SYSTEM | CODE TABLE 2180 | 0 | 0 | 4 |
| 002181 SUPPLEMENTARY PRESENT WEATHER SENSOR | FLAG TABLE 2181 | 0 | 0 | 21 |
| 002182 VISIBILITY MEASUREMENT SYSTEM | CODE TABLE 2182 | 0 | 0 | 4 |
| 002183 CLOUD DETECTION SYSTEM | CODE TABLE 2183 | 0 | 0 | 4 |
| 002184 TYPE OF LIGHTNING DETECTION SENSOR | CODE TABLE 2184 | 0 | 0 | 4 |
| 002185 METHOD OF EVAPORATION MEASUREMENT | CODE TABLE 2185 | 0 | 0 | 4 |
| 002186 CAPABILITY TO DETECT PRECIPITATION PHENOMENA | FLAG TABLE 2186 | 0 | 0 | 30 |
| 002187 CAPABILITY TO DETECT OTHER WEATHER PHENOMENA | FLAG TABLE 2187 | 0 | 0 | 18 |
| 002188 CAPABILITY TO DETECT OSCURATION | FLAG TABLE 2188 | 0 | 0 | 21 |
| 002189 CAPABILITY TO DISCRIMINATE LIGHTNING STRIKES | FLAG TABLE 2189 | 0 | 0 | 12 |
| 002190 LAGRANGIAN DRIFTER SUBMERGENCE (% TIME SUBMERGED) | % | 0 | 0 | 7 |
| 004001 YEAR | YEAR | 0 | 0 | 12 |
| 004002 MONTH | MONTH | 0 | 0 | 4 |
| 004003 DAY | DAY | 0 | 0 | 6 |
| 004004 HOUR | HOUR | 0 | 0 | 5 |
| 004005 MINUTE | MINUTE | 0 | 0 | 6 |
| 004006 SECOND | SECOND | 0 | 0 | 6 |
| 004007 SECONDS WITHIN A MINUTE (MICROSECOND ACCURACY) | SECOND | 6 | 0 | 26 |
| 004011 TIME INCREMENT | YEAR | 0 | -1024 | 11 |
| 004012 TIME INCREMENT | MONTH | 0 | -1024 | 11 |
| 004013 TIME INCREMENT | DAY | 0 | -1024 | 11 |
| 004014 TIME INCREMENT | HOUR | 0 | -1024 | 11 |
| 004015 TIME INCREMENT | MINUTE | 0 | -2048 | 12 |
| 004016 TIME INCREMENT | SECOND | 0 | -4096 | 13 |
| 004017 REFERENCE TIME PERIOD FOR ACCUMULATED OR EXTREME DATA | MINUTE | 0 | -1440 | 12 |
| 004021 TIME PERIOD OR DISPLACEMENT | YEAR | 0 | -1024 | 11 |
| 004022 TIME PERIOD OR DISPLACEMENT | MONTH | 0 | -1024 | 11 |
| 004023 TIME PERIOD OR DISPLACEMENT | DAY | 0 | -1024 | 11 |
| 004024 TIME PERIOD OR DISPLACEMENT | HOUR | 0 | -2048 | 12 |
| 004025 TIME PERIOD OR DISPLACEMENT | MINUTE | 0 | -2048 | 12 |
| 004026 TIME PERIOD OR DISPLACEMENT | SECOND | 0 | -4096 | 13 |
| 004031 DURATION OF TIME RELATING TO FOLLOWING VALUE | HOUR | 0 | 0 | 8 |
| 004032 DURATION OF TIME RELATING TO FOLLOWING VALUE | MINUTE | 0 | 0 | 6 |
| 004041 TIME DIFFERENCE, UTC -LMT (SEE NOTE 6) | MINUTE | 0 | -1440 | 12 |
| 004043 DAY OF THE YEAR | DAY | 0 | 0 | 9 |
| 004051 PRINCIPAL TIME OF DAILY READING OF MAXIMUM TEMPERATURE | HOUR | 0 | 0 | 5 |
| 004052 PRINCIPAL TIME OF DAILY READING OF MINIMUM TEMPERATURE | HOUR | 0 | 0 | 5 |
| 004053 NUMBER OF DAYS WITH PRECIPITATION EQUAL TO OR MORE THAN 1 MM | NUMERIC | 0 | 0 | 6 |
| 004059 TIMES OF OBSERVATION USED TO COMPUTE THE REPORTED MEAN VALUES | FLAG TABLE 4059 | 0 | 0 | 6 |
| 004065 SHORT TIME INCREMENT | MINUTE | 0 | -128 | 8 |
| 004073 SHORT TIME PERIOD OR DISPLACEMENT | DAY | 0 | -128 | 8 |
| 004074 SHORT TIME PERIOD OR DISPLACEMENT | HOUR | 0 | -128 | 8 |
| 004075 SHORT TIME PERIOD OR DISPLACEMENT | MINUTE | 0 | -128 | 8 |
| 004080 AVERAGING PERIOD FOR FOLLOWING VALUE | CODE TABLE 4080 | 0 | 0 | 4 |
| 004086 LONG TIME PERIOD OR DISPLACEMENT | SECOND | 0 | -8192 | 15 |
| 005001 LATITUDE (HIGH ACCURACY) | DEGREE | 5 | -9000000 | 25 |
| 005002 LATITUDE (COARSE ACCURACY) | DEGREE | 2 | -9000 | 15 |
| 005011 LATITUDE INCREMENT (HIGH ACCURACY) | DEGREE | 5 | -9000000 | 25 |
| 005012 LATITUDE INCREMENT (COARSE ACCURACY) | DEGREE | 2 | -9000 | 15 |
| 005015 LATITUDE DISPLACEMENT (HIGH ACCURACY) | DEGREE | 5 | -9000000 | 25 |
| 005016 LATITUDE DISPLACEMENT (COARSE ACCURACY) | DEGREE | 2 | -9000 | 15 |
| 005021 BEARING OR AZIMUTH | DEGREE TRUE | 2 | 0 | 16 |
| 005022 SOLAR AZIMUTH | DEGREE TRUE | 2 | 0 | 16 |
| 005023 SUN TO SATELLITE AZIMUTH DIFFERENCE | DEGREE | 1 | -1800 | 12 |

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|--------|--|-----------------|----|-----------|----|
| 005030 | DIRECTION (SPECTRAL) | DEGREE | 0 | 0 | 12 |
| 005031 | ROW NUMBER | NUMERIC | 0 | 0 | 12 |
| 005033 | PIXEL SIZE ON HORIZONTAL - 1 | M | -1 | 0 | 16 |
| 005034 | ALONG TRACK ROW NUMBER | NUMERIC | 0 | 0 | 11 |
| 005036 | SHIP TRANSECT NUMBER ACCORDING TO SOOP | NUMERIC | 0 | 0 | 7 |
| 005040 | ORBIT NUMBER | NUMERIC | 0 | 0 | 24 |
| 005041 | SCAN LINE NUMBER | NUMERIC | 0 | 0 | 8 |
| 005042 | CHANNEL NUMBER | NUMERIC | 0 | 0 | 6 |
| 005043 | FIELD OF VIEW NUMBER | NUMERIC | 0 | 0 | 8 |
| 005044 | SATELLITE CYCLE NUMBER | NUMERIC | 0 | 0 | 11 |
| 005052 | CHANNEL NUMBER INCREMENT | NUMERIC | 0 | 0 | 5 |
| 005053 | FIELD OF VIEW NUMBER INCREMENT | NUMERIC | 0 | 0 | 5 |
| 005060 | Y ANGULAR POSITION FROM CENTRE OF GRAVITY | DEGREE | 6 | -8000000 | 24 |
| 005061 | Z ANGULAR POSITION FROM CENTRE OF GRAVITY | DEGREE | 6 | -8000000 | 24 |
| 006001 | LONGITUDE (HIGH ACCURACY) | DEGREE | 5 | -18000000 | 26 |
| 006002 | LONGITUDE (COARSE ACCURACY) | DEGREE | 2 | -18000 | 16 |
| 006011 | LONGITUDE INCREMENT (HIGH ACCURACY) | DEGREE | 5 | -18000000 | 26 |
| 006012 | LONGITUDE INCREMENT (COARSE ACCURACY) | DEGREE | 2 | -18000 | 16 |
| 006015 | LONGITUDE DISPLACEMENT (HIGH ACCURACY) | DEGREE | 5 | -18000000 | 26 |
| 006016 | LONGITUDE DISPLACEMENT (COARSE ACCURACY) | DEGREE | 2 | -18000 | 16 |
| 006021 | DISTANCE | M | -1 | 0 | 13 |
| 006030 | WAVE NUMBER (SPECTRAL) | RAD/M | 5 | 0 | 13 |
| 006031 | COLUMN NUMBER | NUMERIC | 0 | 0 | 12 |
| 006033 | PIXEL SIZE ON HORIZONTAL - 2 | M | -1 | 0 | 16 |
| 006034 | CROSS-TRACK CELL NUMBER | NUMERIC | 0 | 0 | 7 |
| 006040 | RADIUS OF CONFIDENCE | M | 0 | 0 | 13 |
| 007001 | HEIGHT OF STATION (SEE NOTE 1) | M | 0 | -400 | 15 |
| 007002 | HEIGHT OR ALTITUDE | M | -1 | -40 | 16 |
| 007003 | GEOPOTENTIAL | M**2/S**2 | -1 | -400 | 17 |
| 007004 | PRESSURE | PA | -1 | 0 | 14 |
| 007005 | HEIGHT INCREMENT | M | 0 | -400 | 12 |
| 007006 | HEIGHT ABOVE STATION | M | 0 | 0 | 15 |
| 007007 | HEIGHT | M | 0 | -1000 | 17 |
| 007008 | GEOPOTENTIAL | M**2/S**2 | 0 | -10000 | 20 |
| 007009 | GEOPOTENTIAL HEIGHT | GPM | 0 | -1000 | 17 |
| 007010 | FLIGHT LEVEL | M | 0 | -1024 | 16 |
| 007021 | ELEVATION (SEE NOTE 2) | DEGREE | 2 | -9000 | 15 |
| 007022 | SOLAR ELEVATION | DEGREE | 2 | -9000 | 15 |
| 007024 | SATELLITE ZENITH ANGLE | DEGREE | 2 | -9000 | 15 |
| 007025 | SOLAR ZENITH ANGLE | DEGREE | 2 | -9000 | 15 |
| 007026 | SATELLITE ZENITH ANGLE | DEGREE | 4 | -9000000 | 21 |
| 007030 | HEIGHT OF STATION GROUND ABOVE MEAN SEA LEVEL (SEE NOTE 3) | M | 1 | -4000 | 17 |
| 007031 | HEIGHT OF BAROMETER ABOVE MEAN SEA LEVEL (SEE NOTE 4) | M | 1 | -4000 | 17 |
| 007032 | HEIGHT OF SENSOR ABOVE LOCAL GROUND (OR DECK OF MARINE PLATFORM) | M | 2 | 0 | 16 |
| 007033 | HEIGHT OF SENSOR ABOVE WATER SURFACE (SEE NOTE 6) | M | 1 | 0 | 12 |
| 007040 | IMPACT PARAMETER (SEE NOTE 8) | M | 1 | 62000000 | 22 |
| 007061 | DEPTH BELOW LAND SURFACE | M | 2 | 0 | 14 |
| 007062 | DEPTH BELOW SEA/WATER SURFACE | M | 1 | 0 | 17 |
| 007063 | DEPTH BELOW SEA/WATER SURFACE | M | 2 | 0 | 20 |
| 007064 | REPRESENTATIVE HEIGHT OF SENSOR ABOVE STATION (SEE NOTE 7) | M | 0 | 0 | 4 |
| 007065 | WATER PRESSURE | PA | -3 | 0 | 17 |
| 007070 | DROGUE DEPTH | M | 0 | 0 | 10 |
| 008001 | VERTICAL SOUNDING SIGNIFICANCE | FLAG TABLE 8001 | 0 | 0 | 7 |
| 008002 | VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS) | CODE TABLE 8002 | 0 | 0 | 6 |
| 008003 | VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS) | CODE TABLE 8003 | 0 | 0 | 6 |
| 008004 | PHASE OF AIRCRAFT FLIGHT | CODE TABLE 8004 | 0 | 0 | 3 |
| 008005 | METEOROLOGICAL ATTRIBUTE SIGNIFICANCE | CODE TABLE 8005 | 0 | 0 | 4 |
| 008006 | OZONE VERTICAL SOUNDING SIGNIFICANCE | FLAG TABLE 8006 | 0 | 0 | 9 |
| 008007 | DIMENSIONAL SIGNIFICANCE | CODE TABLE 8007 | 0 | 0 | 4 |
| 008008 | RADIATION VERTICAL SOUNDING SIGNIFICANCE | FLAG TABLE 8008 | 0 | 0 | 9 |
| 008009 | DETAILED PHASE OF FLIGHT | CODE TABLE 8009 | 0 | 0 | 4 |
| 008010 | SURFACE QUALIFIER (TEMPERATURE DATA) | CODE TABLE 8010 | 0 | 0 | 5 |
| 008011 | METEOROLOGICAL FEATURE | CODE TABLE 8011 | 0 | 0 | 6 |
| 008012 | LAND/SEA QUALIFIER | CODE TABLE 8012 | 0 | 0 | 2 |
| 008013 | DAY/NIGHT QUALIFIER | CODE TABLE 8013 | 0 | 0 | 2 |
| 008014 | QUALIFIER FOR RUNWAY VISUAL RANGE | CODE TABLE 8014 | 0 | 0 | 4 |
| 008016 | CHANGE QUALIFIER OF A TREND-TYPE FORECAST OR AN AERODROME FORECAST | CODE TABLE 8016 | 0 | 0 | 3 |
| 008017 | QUALIFIER OF THE TIME WHEN THE FORECAST CHANGE IS EXPECTED | CODE TABLE 8017 | 0 | 0 | 2 |
| 008018 | SEAWINDS LAND/ICE SURFACE TYPE | FLAG TABLE 8018 | 0 | 0 | 17 |
| 008020 | TOTAL NUMBER OF MISSING ENTITIES (WITH RESPECT TO ACCUMULATION OR AVERAGE) | NUMERIC | 0 | 0 | 16 |
| 008021 | TIME SIGNIFICANCE | CODE TABLE 8021 | 0 | 0 | 5 |
| 008022 | TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE) | NUMERIC | 0 | 0 | 16 |
| 008023 | FIRST ORDER STATISTICS | CODE TABLE 8023 | 0 | 0 | 6 |
| 008024 | DIFFERENCE STATISTICS | CODE TABLE 8024 | 0 | 0 | 6 |
| 008025 | TIME DIFFERENCE QUALIFIER | CODE TABLE 8025 | 0 | 0 | 4 |
| 008029 | REMOTELY SENSED SURFACE TYPE | CODE TABLE 8029 | 0 | 0 | 8 |
| 008030 | MANUAL ON CODES (VOLUME I.1, SECTION C) CODE TABLE FROM WHICH DATA ARE DERIVED | NUMERIC | 0 | 0 | 13 |
| 008031 | DATA CATEGORY CREX TABLE A | NUMERIC | 0 | 0 | 8 |
| 008033 | METHOD OF DERIVATION OF PERCENTAGE CONFIDENCE | CODE TABLE 8033 | 0 | 0 | 7 |
| 008035 | TYPE OF MONITORING EXERCISE | CODE TABLE 8035 | 0 | 0 | 3 |
| 008036 | TYPE OF CENTRE OR STATION PERFORMING MONITORING | CODE TABLE 8036 | 0 | 0 | 3 |
| 008039 | TIME SIGNIFICANCE (AVIATION FORECAST) | CODE TABLE 8039 | 0 | 0 | 6 |
| 008040 | FLIGHT LEVEL SIGNIFICANCE | CODE TABLE 8040 | 0 | 0 | 6 |
| 008041 | DATA SIGNIFICANCE | CODE TABLE 8041 | 0 | 0 | 5 |
| 008042 | EXTENDED VERTICAL SOUNDING SIGNIFICANCE | FLAG TABLE 8042 | 0 | 0 | 18 |
| 008049 | NUMBER OF OBSERVATIONS | NUMERIC | 0 | 0 | 8 |
| 008050 | QUALIFIER FOR NUMBER OF MISSING VALUES IN CALCULATION OF STATISTIC | CODE TABLE 8050 | 0 | 0 | 4 |
| 008051 | QUALIFIER FOR NUMBER OF MISSING VALUES IN CALCULATION OF STATISTIC | CODE TABLE 8051 | 0 | 0 | 3 |
| 008052 | CONDITION FOR WHICH NUMBER OF DAYS OF OCCURRENCE FOLLOWS | CODE TABLE 8052 | 0 | 0 | 5 |
| 008053 | DAY OF OCCURRENCE QUALIFIER | CODE TABLE 8053 | 0 | 0 | 2 |
| 008054 | QUALIFIER FOR WIND SPEED OR WIND GUST | CODE TABLE 8054 | 0 | 0 | 3 |
| 008060 | SAMPLE SCANNING MODE SIGNIFICANCE | CODE TABLE 8060 | 0 | 0 | 4 |
| 008065 | SUN-GLINT INDICATOR | CODE TABLE 8065 | 0 | 0 | 2 |

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|--------|--|------------------|----|-------------|----|
| 008066 | SEMI-TRANSPARENCY INDICATOR | CODE TABLE 8066 | 0 | 0 | 2 |
| 008070 | TOVS/ATOVS PRODUCT QUALIFIER | CODE TABLE 8070 | 0 | 0 | 4 |
| 008072 | PIXEL(S) TYPE | CODE TABLE 8072 | 0 | 0 | 3 |
| 008074 | ALTIMETER ECHO TYPE | CODE TABLE 8074 | 0 | 0 | 2 |
| 008075 | ASCENDING/DESCENDING ORBIT QUALIFIER | CODE TABLE 8075 | 0 | 0 | 2 |
| 008076 | TYPE OF BAND | CODE TABLE 8076 | 0 | 0 | 6 |
| 008079 | AVIATION PRODUCT STATUS | CODE TABLE 8079 | 0 | 0 | 4 |
| 008080 | QUALIFIER FOR GTSSPP QUALITY FLAG | CODE TABLE 8080 | 0 | 0 | 6 |
| 008081 | TYPE OF EQUIPMENT | CODE TABLE 8081 | 0 | 0 | 6 |
| 008082 | (CBS) ARTIFICIAL CORRECTION OF SENSOR HEIGHT TO ANOTHER VALUE | CODE TABLE 8082 | 0 | 0 | 3 |
| 008083 | NOMINAL VALUE INDICATOR | FLAG TABLE 8083 | 0 | 0 | 15 |
| 008085 | BEAM IDENTIFIER | CODE TABLE 8085 | 0 | 0 | 3 |
| 010001 | HEIGHT OF LAND SURFACE | M | 0 | -400 | 15 |
| 010002 | HEIGHT | M | -1 | -40 | 16 |
| 010003 | GEOPOTENTIAL | M**2/S**2 | -1 | -400 | 17 |
| 010004 | PRESSURE | PA | -1 | 0 | 14 |
| 010007 | HEIGHT | M | 0 | -1000 | 17 |
| 010008 | GEOPOTENTIAL | M**2/S**2 | 0 | -10000 | 20 |
| 010009 | GEOPOTENTIAL HEIGHT | GPM | 0 | -1000 | 17 |
| 010010 | MINIMUM PRESSURE REDUCED TO MEAN SEA LEVEL | PA | -1 | 0 | 14 |
| 010011 | MAXIMUM PRESSURE REDUCED TO MEAN SEA LEVEL | PA | -1 | 0 | 14 |
| 010031 | IN DIRECTION OF THE NORTH POLE, DISTANCE FROM THE EARTH'S CENTRE | M | 2 | -1073741824 | 31 |
| 010032 | SATELLITE DISTANCE TO EARTH'S CENTRE | M | 1 | 0 | 27 |
| 010033 | ALTITUDE (PLATFORM TO ELLIPSOID) | M | 1 | 0 | 27 |
| 010034 | EARTH RADIUS | M | 1 | 0 | 27 |
| 010035 | EARTH'S LOCAL RADIUS OF CURVATURE | M | 1 | 62000000 | 22 |
| 010036 | GEOID UNDULATION (SEE NOTE 4) | M | 2 | -15000 | 15 |
| 010040 | NUMBER OF RETRIEVED LAYERS | NUMERIC | 0 | 0 | 10 |
| 010050 | STANDARD DEVIATION ALTITUDE | M | 2 | 0 | 16 |
| 010051 | PRESSURE REDUCED TO MEAN SEA LEVEL | PA | -1 | 0 | 14 |
| 010052 | ALTIMETER SETTING (QNH) | PA | -1 | 0 | 14 |
| 010060 | PRESSURE CHANGE | PA | -1 | -1024 | 11 |
| 010061 | 3-HOUR PRESSURE CHANGE | PA | -1 | -500 | 10 |
| 010062 | 24-HOUR PRESSURE CHANGE | PA | -1 | -1000 | 11 |
| 010063 | CHARACTERISTIC OF PRESSURE TENDENCY | CODE TABLE 10063 | 0 | 0 | 4 |
| 010070 | INDICATED AIRCRAFT ALTITUDE | M | 0 | -400 | 16 |
| 010080 | VIEWING ZENITH ANGLE | DEGREE | 2 | -9000 | 15 |
| 010081 | ALTITUDE OF COG ABOVE REFERENCE ELLIPSOID | M | 3 | 0 | 31 |
| 010082 | INSTANTANEOUS ALTITUDE RATE | MS-1 | 3 | -65536 | 17 |
| 010083 | SQUARED OFF NADIR ANGLE OF THE SATELLITE FROM PLATFORM DATA | DEGREE2 | 2 | 0 | 16 |
| 010084 | SQUARED OFF NADIR ANGLE OF THE SATELLITE FROM WAVEFORM DATA | DEGREE2 | 2 | 0 | 16 |
| 010085 | MEAN SEA SURFACE HEIGHT | M | 3 | -131072 | 18 |
| 010086 | GEOID'S HEIGHT | M | 3 | -131072 | 18 |
| 010087 | OCEAN DEPTH/LAND ELEVATION | M | 1 | -131072 | 18 |
| 010088 | TOTAL GEOCENTRIC OCEAN TIDE HEIGHT SOLUTION 1 | M | 3 | -32768 | 16 |
| 010089 | TOTAL GEOCENTRIC OCEAN TIDE HEIGHT SOLUTION 2 | M | 3 | -32768 | 16 |
| 010090 | LONG PERIOD TIDE HEIGHT | M | 3 | -32768 | 16 |
| 010091 | TIDAL LOADING HEIGHT | M | 3 | -32768 | 16 |
| 010092 | SOLID EARTH TIDE HEIGHT | M | 3 | -32768 | 16 |
| 010093 | GEOCENTRIC POLE TIDE HEIGHT | M | 3 | -32768 | 16 |
| 010095 | HEIGHT OF ATMOSPHERE USED | M | 0 | 0 | 16 |
| 011001 | WIND DIRECTION | DEGREE TRUE | 0 | 0 | 9 |
| 011002 | WIND SPEED | M/S | 1 | 0 | 12 |
| 011003 | U-COMPONENT | M/S | 1 | -4096 | 13 |
| 011004 | V-COMPONENT | M/S | 1 | -4096 | 13 |
| 011005 | W-COMPONENT | PA/S | 1 | -512 | 10 |
| 011006 | W-COMPONENT | M/S | 2 | -4096 | 13 |
| 011010 | WIND DIRECTION ASSOCIATED WITH WIND SPEED WHICH FOLLOWS | DEGREE TRUE | 0 | 0 | 9 |
| 011011 | WIND DIRECTION AT 10 M | DEGREE TRUE | 0 | 0 | 9 |
| 011012 | WIND SPEED AT 10 M | M/S | 1 | 0 | 12 |
| 011013 | WIND DIRECTION AT 5 M | DEGREE TRUE | 0 | 0 | 9 |
| 011014 | WIND SPEED AT 5 M | M/S | 1 | 0 | 12 |
| 011016 | EXTREME COUNTERCLOCKWISE WIND DIRECTION OF A VARIABLE WIND | DEGREE TRUE | 0 | 0 | 9 |
| 011017 | EXTREME CLOCKWISE WIND DIRECTION OF A VARIABLE WIND | DEGREE TRUE | 0 | 0 | 9 |
| 011019 | STEADINESS OF WIND (6) | % | 0 | 0 | 7 |
| 011021 | RELATIVE VORTICITY | 1/S | 9 | -65536 | 17 |
| 011022 | DIVERGENCE | 1/S | 9 | -65536 | 17 |
| 011023 | VELOCITY POTENTIAL | M**2/S | -2 | -65536 | 17 |
| 011030 | EXTENDED DEGREE OF TURBULENCE | CODE TABLE 11030 | 0 | 0 | 6 |
| 011031 | DEGREE OF TURBULENCE | CODE TABLE 11031 | 0 | 0 | 4 |
| 011032 | HEIGHT OF BASE OF TURBULENCE | M | -1 | -40 | 16 |
| 011033 | HEIGHT OF TOP OF TURBULENCE | M | -1 | -40 | 16 |
| 011034 | VERTICAL GUST VELOCITY | M/S | 1 | -1024 | 11 |
| 011035 | VERTICAL GUST ACCELERATION | M/S**2 | 2 | -8192 | 14 |
| 011036 | MAXIMUM DERIVED EQUIVALENT VERTICAL GUST SPEED | M/S | 1 | 0 | 10 |
| 011037 | TURBULENCE INDEX | CODE TABLE 11037 | 0 | 0 | 6 |
| 011038 | TIME OF OCCURRENCE OF PEAK EDDY DISSIPATION RATE | CODE TABLE 11038 | 0 | 0 | 5 |
| 011039 | EXTENDED TIME OF OCCURRENCE OF PEAK EDDY DISSIPATION RATE | CODE TABLE 11039 | 0 | 0 | 6 |
| 011040 | MAXIMUM WIND SPEED (MEAN WIND) | M/S | 1 | 0 | 12 |
| 011041 | MAXIMUM WIND GUST SPEED | M/S | 1 | 0 | 12 |
| 011042 | MAXIMUM WIND SPEED (10-MIN MEAN WIND) | M/S | 1 | 0 | 12 |
| 011043 | MAXIMUM WIND GUST DIRECTION | DEGREE TRUE | 0 | 0 | 9 |
| 011044 | MEAN WIND DIRECTION FOR SURFACE - 1500 M (5000 FEET) | DEGREE TRUE | 0 | 0 | 9 |
| 011045 | MEAN WIND SPEED FOR SURFACE - 1500 M (5000 FEET) | M/S | 1 | 0 | 12 |
| 011046 | MAXIMUM INSTANTANEOUS WIND SPEED | M/S | 1 | 0 | 12 |
| 011047 | MAXIMUM INSTANTANEOUS WIND SPEED OVER 10 MINUTES | M/S | 1 | 0 | 12 |
| 011049 | STANDARD DEVIATION OF WIND DIRECTION | DEGREE TRUE | 0 | 0 | 9 |
| 011050 | STANDARD DEVIATION OF HORIZONTAL WIND SPEED | M/S | 1 | 0 | 12 |
| 011051 | STANDARD DEVIATION OF VERTICAL WIND SPEED | M/S | 1 | 0 | 8 |
| 011052 | FORMAL UNCERTAINTY IN WIND SPEED | M/S | 2 | 0 | 13 |
| 011053 | FORMAL UNCERTAINTY IN WIND DIRECTION | DEGREE TRUE | 2 | 0 | 15 |
| 011054 | MEAN WIND DIRECTION FOR 1500 M - 3000 M | DEGREE TRUE | 0 | 0 | 9 |
| 011055 | MEAN WIND SPEED FOR 1500 M - 3000 M | M/S | 1 | 0 | 12 |

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|--------|---|-------------------|----|-------|----|
| 011061 | ABSOLUTE WIND SHEAR IN 1 KM LAYER BELOW | M/S | 1 | 0 | 12 |
| 011062 | ABSOLUTE WIND SHEAR IN 1 KM LAYER ABOVE | M/S | 1 | 0 | 12 |
| 011070 | DESIGNATOR OF THE RUNWAY AFFECTED BY WIND SHEAR (INCLUDING ALL) | CCITTIA5 | 0 | 0 | 32 |
| 011071 | TURBULENT VERTICAL MOMENTUM FLUX | M**2/S**2 | 3 | -128 | 14 |
| 011072 | TURBULENT VERTICAL BUOYANCY FLUX | KM/S | 3 | -128 | 11 |
| 011073 | TURBULENT KINETIC ENERGY | M**2/S**2 | 2 | -1024 | 13 |
| 011074 | DISSIPATION ENERGY | M**2/S**2 | 2 | -1024 | 10 |
| 011075 | MEAN TURBULENCE INTENSITY (EDDY DISSIPATION RATE) | M** (2/3) /S | 2 | 0 | 8 |
| 011076 | PEAK TURBULENCE INTENSITY (EDDY DISSIPATION RATE) | M** (2/3) /S | 2 | 0 | 8 |
| 011077 | REPORTING INTERVAL OR AVERAGING TIME FOR EDDY DISSIPATION RATE | S | 0 | 0 | 12 |
| 011081 | MODEL WIND DIRECTION AT 10M | DEGREE TRUE | 2 | 0 | 16 |
| 011082 | MODEL WIND SPEED AT 10M | M/S | 2 | 0 | 14 |
| 011083 | WIND SPEED | KM/HOUR | 0 | 0 | 9 |
| 011084 | WIND SPEED | KNOT | 0 | 0 | 8 |
| 011085 | MAXIMUM WIND GUST SPEED | KM/HOUR | 0 | 0 | 9 |
| 011086 | MAXIMUM WIND GUST SPEED | KNOT | 0 | 0 | 8 |
| 011095 | U COMPONENT OF THE MODEL WIND VECTOR | M/S | 1 | -4096 | 13 |
| 011096 | V COMPONENT OF THE MODEL WIND VECTOR | M/S | 1 | -4096 | 13 |
| 011192 | U - COMPONENT AT 10 M | M/S | 1 | -4096 | 13 |
| 012001 | TEMPERATURE/DRY-BULB TEMPERATURE | K | 1 | 0 | 12 |
| 012002 | WET-BULB TEMPERATURE | K | 1 | 0 | 12 |
| 012003 | DEW-POINT TEMPERATURE | K | 1 | 0 | 12 |
| 012004 | DRY-BULB TEMPERATURE AT 2 M | K | 1 | 0 | 12 |
| 012005 | WET-BULB TEMPERATURE AT 2 M | K | 1 | 0 | 12 |
| 012006 | DEW-POINT TEMPERATURE AT 2 M | K | 1 | 0 | 12 |
| 012007 | VIRTUAL TEMPERATURE | K | 1 | 0 | 12 |
| 012011 | MAXIMUM TEMPERATURE, AT HEIGHT AND OVER PERIOD SPECIFIED | K | 1 | 0 | 12 |
| 012012 | MINIMUM TEMPERATURE, AT HEIGHT AND OVER PERIOD SPECIFIED | K | 1 | 0 | 12 |
| 012013 | GROUND MINIMUM TEMPERATURE, PAST 12 HOURS | K | 1 | 0 | 12 |
| 012014 | MAXIMUM TEMPERATURE AT 2 M, PAST 12 HOURS | K | 1 | 0 | 12 |
| 012015 | MINIMUM TEMPERATURE AT 2 M, PAST 12 HOURS | K | 1 | 0 | 12 |
| 012016 | MAXIMUM TEMPERATURE AT 2 M, PAST 24 HOURS | K | 1 | 0 | 12 |
| 012017 | MINIMUM TEMPERATURE AT 2 M, PAST 24 HOURS | K | 1 | 0 | 12 |
| 012021 | MAXIMUM TEMPERATURE AT 2M | K | 2 | 0 | 16 |
| 012022 | MINIMUM TEMPERATURE AT 2M | K | 2 | 0 | 16 |
| 012023 | TEMPERATURE | C | 0 | -99 | 8 |
| 012024 | DEW POINT TEMPERATURE | C | 0 | -99 | 8 |
| 012030 | SOIL TEMPERATURE | K | 1 | 0 | 12 |
| 012049 | Temperature change over specified period | K | 0 | -30 | 6 |
| 012051 | STANDARD DEVIATION TEMPERATURE | K | 1 | 0 | 10 |
| 012052 | HIGHEST DAILY MEAN TEMPERATURE | K | 1 | 0 | 12 |
| 012053 | LOWEST DAILY MEAN TEMPERATURE | K | 1 | 0 | 12 |
| 012061 | SKIN TEMPERATURE | K | 1 | 0 | 12 |
| 012062 | EQUIVALENT BLACK BODY TEMPERATURE | K | 1 | 0 | 12 |
| 012063 | BRIGHTNESS TEMPERATURE | K | 1 | 0 | 12 |
| 012064 | INSTRUMENT TEMPERATURE | K | 1 | 0 | 12 |
| 012065 | STANDARD DEVIATION BRIGHTNESS TEMPERATURE | K | 1 | 0 | 12 |
| 012070 | WARM LOAD TEMPERATURE | K | 2 | 0 | 16 |
| 012071 | COLDEST CLUSTER TEMPERATURE | K | 1 | 0 | 12 |
| 012072 | RADIANCE | WM**(-2) SR**(-1) | 6 | 0 | 31 |
| 012073 | TEMPERATURE | K | 2 | 0 | 16 |
| 012075 | SPECTRAL RADIANCE | WM**(-3) SR**(-1) | -3 | 0 | 16 |
| 012076 | RADIANCE | WM**(-2) SR**(-1) | 3 | 0 | 16 |
| 012101 | TEMPERATURE/DRY-BULB TEMPERATURE | K | 2 | 0 | 16 |
| 012102 | WET-BULB TEMPERATURE | K | 2 | 0 | 16 |
| 012103 | DEW-POINT TEMPERATURE | K | 2 | 0 | 16 |
| 012104 | DRY-BULB TEMPERATURE AT 2M | K | 2 | 0 | 16 |
| 012105 | WET-BULB TEMPERATURE AT 2M | K | 2 | 0 | 16 |
| 012106 | DEW-POINT TEMPERATURE AT 2M | K | 2 | 0 | 16 |
| 012107 | VIRTUAL TEMPERATURE | K | 2 | 0 | 16 |
| 012111 | MAXIMUM TEMPERATURE, AT HEIGHT AND OVER PERIOD SPECIFIED | K | 2 | 0 | 16 |
| 012112 | MINIMUM TEMPERATURE, AT HEIGHT AND OVER PERIOD SPECIFIED | K | 2 | 0 | 16 |
| 012113 | GROUND MINIMUM TEMPERATURE, PAST 12 HOURS | K | 2 | 0 | 16 |
| 012114 | MAXIMUM TEMPERATURE AT 2M, PAST 12 HOURS | K | 2 | 0 | 16 |
| 012115 | MINIMUM TEMPERATURE AT 2M, PAST 12 HOURS | K | 2 | 0 | 16 |
| 012116 | MAXIMUM TEMPERATURE AT 2M, PAST 24 HOURS | K | 2 | 0 | 16 |
| 012117 | MINIMUM TEMPERATURE AT 2M, PAST 24 HOURS | K | 2 | 0 | 16 |
| 012118 | MAXIMUM TEMPERATURE AT HEIGHT SPECIFIED, PAST 24 HOURS | K | 2 | 0 | 16 |
| 012119 | MINIMUM TEMPERATURE AT HEIGHT SPECIFIED, PAST 24 HOURS | K | 2 | 0 | 16 |
| 012121 | GROUND MINIMUM TEMPERATURE | K | 2 | 0 | 16 |
| 012122 | GROUND MINIMUM TEMPERATURE OF THE PRECEDING NIGHT | K | 2 | 0 | 16 |
| 012130 | SOIL TEMPERATURE | K | 2 | 0 | 16 |
| 012151 | STANDARD DEVIATION OF DAILY MEAN TEMPERATURE | K | 2 | 0 | 12 |
| 012152 | HIGHEST DAILY MEAN TEMPERATURE | K | 2 | 0 | 16 |
| 012153 | LOWEST DAILY MEAN TEMPERATURE | K | 2 | 0 | 16 |
| 012161 | SKIN TEMPERATURE | K | 2 | 0 | 16 |
| 012162 | EQUIVALENT BLACK BODY TEMPERATURE | K | 2 | 0 | 16 |
| 012163 | BRIGHTNESS TEMPERATURE | K | 2 | 0 | 16 |
| 012164 | INSTRUMENT TEMPERATURE | K | 2 | 0 | 16 |
| 012171 | COLDEST CLUSTER TEMPERATURE | K | 2 | 0 | 16 |
| 012180 | AVERAGED 12 MICRON BT FOR ALL CLEAR PIXELS AT NADIR | K | 2 | 0 | 16 |
| 012181 | AVERAGED 11 MICRON BT FOR ALL CLEAR PIXELS AT NADIR | K | 2 | 0 | 16 |
| 012182 | AVERAGED 3.7 MICRON BT FOR ALL CLEAR PIXELS AT NADIR | K | 2 | 0 | 16 |
| 012183 | AVERAGED 12 MICRON BT FOR ALL CLEAR PIXELS, FORWARD VIEW | K | 2 | 0 | 16 |
| 012184 | AVERAGED 11 MICRON BT FOR ALL CLEAR PIXELS, FORWARD VIEW | K | 2 | 0 | 16 |
| 012185 | AVERAGED 3.7 MICRON BT FOR ALL CLEAR PIXELS, FORWARD VIEW | K | 2 | 0 | 16 |
| 012186 | MEAN NADIR SEA SURFACE TEMPERATURE | K | 2 | 0 | 16 |
| 012187 | MEAN DUAL VIEW SEA SURFACE TEMPERATURE | K | 2 | 0 | 16 |
| 012188 | INTERPOLATED 23.8 GHZ BRIGHTNESS T FROM MWR | K | 2 | 0 | 16 |
| 012189 | INTERPOLATED 36.5 GHZ BRIGHTNESS T FROM MWR | K | 2 | 0 | 16 |
| 013001 | SPECIFIC HUMIDITY | KG/KG | 5 | 0 | 14 |
| 013002 | MIXING RATIO | KG/KG | 5 | 0 | 14 |
| 013003 | RELATIVE HUMIDITY | % | 0 | 0 | 7 |

| | | | | | |
|--------|---|---------------------------|----|--------|----|
| 013004 | VAPOUR PRESSURE | PA | -1 | 0 | 10 |
| 013005 | VAPOUR DENSITY | KG/M**3 | 3 | 0 | 7 |
| 013006 | MIXING HEIGHTS | M | -1 | -40 | 16 |
| 013007 | MINIMUM RELATIVE HUMIDITY | % | 0 | 0 | 7 |
| 013008 | MAXIMUM RELATIVE HUMIDITY | % | 0 | 0 | 7 |
| 013009 | RELATIVE HUMIDITY | % | 1 | -1000 | 12 |
| 013011 | TOTAL PRECIPITATION/TOTAL WATER EQUIVALENT | KG/M**2 | 1 | -1 | 14 |
| 013012 | DEPTH OF FRESH SNOW | M | 2 | -2 | 12 |
| 013013 | TOTAL SNOW DEPTH | M | 2 | -2 | 16 |
| 013014 | RAINFALL/WATER EQUIVALENT OF SNOW (AVERAGED RATE) | KG/(M**2) S | 4 | 0 | 12 |
| 013015 | SNOWFALL (AVERAGED RATE) | M/S | 7 | 0 | 12 |
| 013016 | PRECIPITABLE WATER | KG/M**2 | 0 | 0 | 7 |
| 013019 | TOTAL PRECIPITATION PAST 1 HOUR | KG/M**2 | 1 | -1 | 14 |
| 013020 | TOTAL PRECIPITATION PAST 3 HOURS | KG/M**2 | 1 | -1 | 14 |
| 013021 | TOTAL PRECIPITATION PAST 6 HOURS | KG/M**2 | 1 | -1 | 14 |
| 013022 | TOTAL PRECIPITATION PAST 12 HOURS | KG/M**2 | 1 | -1 | 14 |
| 013023 | TOTAL PRECIPITATION PAST 24 HOURS | KG/M**2 | 1 | -1 | 14 |
| 013031 | EVAPOTRANSPIRATION | KG/M**2 | 0 | 0 | 7 |
| 013032 | EVAPORATION/EVAPOTRANSPIRATION | KG/M**2 | 1 | 0 | 8 |
| 013033 | EVAPORATION/EVAPOTRANSPIRATION | KG/M**2 | 1 | 0 | 10 |
| 013038 | SUPERADIABATIC INDICATOR | CODE TABLE 13038 | 0 | 0 | 2 |
| 013039 | TERRAIN TYPE (ICE/SNOW) | CODE TABLE 13039 | 0 | 0 | 3 |
| 013040 | SURFACE FLAG | CODE TABLE 13040 | 0 | 0 | 4 |
| 013041 | PASQUILL-GIFFORD STABILITY CATEGORY | CODE TABLE 13041 | 0 | 0 | 4 |
| 013042 | PARCEL LIFTED INDEX (TO 500 HPA) | K | 0 | -20 | 6 |
| 013043 | BEST LIFTED INDEX (TO 500 HPA) | K | 0 | -20 | 6 |
| 013044 | K INDEX | K | 0 | -30 | 8 |
| 013045 | KO INDEX | K | 0 | -30 | 8 |
| 013046 | MAXIMUM BUOYANCY | K | 0 | -30 | 8 |
| 013047 | MODIFIED SHOWALTER STABILITY INDEX | K | 0 | -60 | 6 |
| 013051 | FREQUENCY GROUP, PRECIPITATION | CODE TABLE 13051 | 0 | 0 | 4 |
| 013052 | HIGHEST DAILY AMOUNT OF PRECIPITATION | KG/M**2 | 1 | -1 | 14 |
| 013055 | INTENSITY OF PRECIPITATION | KG/(M**2) S | 4 | 0 | 8 |
| 013056 | CHARACTER AND INTENSITY OF PRECIPITATION | CODE TABLE 13056 | 0 | 0 | 4 |
| 013057 | TIME OF BEGINNING OR END OF PRECIPITATION | CODE TABLE 13057 | 0 | 0 | 4 |
| 013058 | SIZE OF PRECIPITATING ELEMENT | M | 4 | 0 | 7 |
| 013059 | NUMBER OF FLASHES (THUNDERSTORM) | NUMERIC | 0 | 0 | 7 |
| 013060 | TOTAL ACCUMULATED PRECIPITATION | KG/M**2 | 1 | -1 | 17 |
| 013071 | UPSTREAM WATER LEVEL | M | 2 | 0 | 14 |
| 013072 | DOWNSTREAM WATER LEVEL | M | 2 | 0 | 14 |
| 013073 | MAXIMUM WATER LEVEL | M | 2 | 0 | 14 |
| 013080 | WATER PH | pH | 1 | 0 | 10 |
| 013081 | WATER CONDUCTIVITY | S M-1 | 3 | 0 | 14 |
| 013082 | WATER TEMPERATURE | K | 1 | 0 | 12 |
| 013083 | DISSOLVED OXYGEN | KG/M**3 | 6 | 0 | 15 |
| 013084 | TURBIDITY | LUMEN | 0 | 0 | 14 |
| 013085 | OXYDATION REDUCTION POTENTIAL (ORP) | V | 3 | 0 | 14 |
| 013090 | RADIOMETER WATER VAPOUR CONTENT | KG/M**2 | 1 | 0 | 10 |
| 013091 | RADIOMETER LIQUID CONTENT | KG/M**2 | 2 | 0 | 8 |
| 013093 | CLOUD OPTICAL THICKNESS | NUMERIC | 0 | 0 | 8 |
| 013095 | TOTAL COLUMN WATER VAPOUR | KG/M**2 | 4 | 0 | 19 |
| 013096 | MWR WATER VAPOUR CONTENT | KG/M**2 | 2 | 0 | 14 |
| 013097 | MWR LIQUID WATER CONTENT | KG/M**2 | 2 | 0 | 14 |
| 013098 | INTEGRATED WATER VAPOUR DENSITY | KG/M**2 | 8 | 0 | 30 |
| 013192 | RELATIVE HUMIDITY AT 2 M | % | 0 | 0 | 8 |
| 014001 | LONG-WAVE RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -3 | -2048 | 12 |
| 014002 | LONG-WAVE RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -3 | -2048 | 12 |
| 014003 | SHORT-WAVE RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -3 | -2048 | 12 |
| 014004 | SHORT-WAVE RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -3 | -2048 | 12 |
| 014011 | NET LONG-WAVE RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -3 | -2048 | 12 |
| 014012 | NET LONG-WAVE RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -3 | -2048 | 12 |
| 014013 | NET SHORT-WAVE RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -3 | -2048 | 12 |
| 014014 | NET SHORT-WAVE RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -3 | -2048 | 12 |
| 014015 | NET RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -4 | -16384 | 15 |
| 014016 | NET RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -4 | -16384 | 15 |
| 014017 | INSTANTANEOUS LONG-WAVE RADIATION (SEE NOTE 6) | W/M**2 | -3 | -2048 | 12 |
| 014018 | INSTANTANEOUS SHORT-WAVE RADIATION (SEE NOTE 6) | W/M**2 | -3 | -2048 | 12 |
| 014019 | SURFACE ALBEDO | % | 0 | 0 | 7 |
| 014020 | GLOBAL SOLAR RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -4 | 0 | 15 |
| 014021 | GLOBAL SOLAR RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -4 | 0 | 15 |
| 014022 | DIFFUSE SOLAR RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -4 | 0 | 15 |
| 014023 | DIFFUSE SOLAR RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -4 | 0 | 15 |
| 014024 | DIRECT SOLAR RADIATION, INTEGRATED OVER 24 HOURS | J/M**2 | -4 | 0 | 15 |
| 014025 | DIRECT SOLAR RADIATION, INTEGRATED OVER PERIOD SPECIFIED | J/M**2 | -4 | 0 | 15 |
| 014026 | ALBEDO AT THE TOP OF CLOUDS | % | 0 | 0 | 7 |
| 014027 | ALBEDO | % | 0 | 0 | 7 |
| 014028 | GLOBAL SOLAR RADIATION (HIGH ACCURACY), INTEGRATED OVER PERIOD S | J/M**2 | -2 | 0 | 16 |
| 014029 | DIFFUSE SOLAR RADIATION (HIGH ACCURACY), INTEGRATED OVER PERIOD S | J/M**2 | -2 | 0 | 16 |
| 014030 | DIRECT SOLAR RADIATION (HIGH ACCURACY), INTEGRATED OVER PERIOD S | J/M**2 | -2 | 0 | 16 |
| 014031 | TOTAL SUNSHINE | MINUTE | 0 | 0 | 11 |
| 014032 | TOTAL SUNSHINE | HOUR | 0 | 0 | 10 |
| 014033 | TOTAL SUNSHINE | % | 0 | 0 | 9 |
| 014034 | SUNSHINE OVER PERIOD SPECIFIED | MINUTE | 0 | 0 | 11 |
| 014042 | BI-DIRECTIONAL REFLECTANCE | % | 0 | 0 | 7 |
| 014045 | CHANNEL RADIANCE | (W/M**2) * (1/SR) * CM | 0 | 0 | 11 |
| 014046 | SCALED IASI RADIANCE | (W/M**2) * (1/SR) * (1/M) | 0 | -5000 | 16 |
| 014047 | SCALED MEAN AVHRR RADIANCE | (W/M**2) * (1/SR) * (1/M) | 0 | 0 | 31 |
| 014048 | SCALED STANDARD DEVIATION RADIANCE | (W/M**2) * (1/SR) * (1/M) | 0 | 0 | 31 |
| 014050 | EMISSIVITY (SEE NOTE 5) | % | 1 | 0 | 10 |
| 014051 | DIRECT SOLAR RADIATION INTEGRATED OVER LAST HOUR | J/M**2 | -3 | 0 | 14 |
| 014055 | SOLAR ACTIVITY INDEX | NUMERIC | 0 | -32768 | 16 |
| 014061 | (VAL) INSTANTANEOUS LONG-WAVE RADIATION | W/M**2 | 0 | -512 | 10 |
| 014062 | (VAL) INSTANTANEOUS SHORT-WAVE RADIATION | W/M**2 | 0 | -2048 | 12 |



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|--------|--|------------------|----|---------|----|
| 015001 | TOTAL OZONE | DU | 0 | 0 | 10 |
| 015002 | AIR MASS (SLANT PATH AT 22 KM) | NUMERIC | 2 | 0 | 10 |
| 015003 | MEASURED OZONE PARTIAL PRESSURE (SOUNDING) | PA | 4 | 0 | 9 |
| 015004 | OZONE SOUNDING CORRECTION FACTOR | NUMERIC | 3 | 0 | 11 |
| 015005 | OZONE P | DU | 0 | 0 | 10 |
| 015011 | LOG 10 OF INTEGRATED ELECTRON DENSITY | LOG (1/M2) | 3 | 14000 | 13 |
| 015015 | MAXIMUM IMAGE SPECTRAL COMPONENT BEFORE NORMALIZATION | NUMERIC | 0 | 0 | 31 |
| 015020 | INTEGRATED O3 DENSITY | KG/M**2 | 8 | 0 | 21 |
| 015025 | TYPE OF POLLUTANT | CODE TABLE 15025 | 0 | 0 | 4 |
| 015026 | CONCENTRATION OF POLLUTANT | MOLMOL-1 | 9 | 0 | 9 |
| 015027 | CONCENTRATION OF POLLUTANT | KG/M3 | 9 | 0 | 10 |
| 015030 | AEROSOL CONTAMINATION INDEX | NUMERIC | 2 | -1000 | 12 |
| 015031 | ATMOSPHERIC PATH DELAY IN SATELLITE SIGNAL | M | 4 | 10000 | 15 |
| 015032 | ESTIMATED ERROR IN ATMOSPHERIC PATH DELAY | M | 4 | 0 | 10 |
| 015033 | DIFFERENCE IN PATH DELAYS FOR LIMB VIEWS AT EXTREMES OF SCAN | M | 5 | -10000 | 15 |
| 015034 | ESTIMATED ERROR IN PATH DELAY DIFFERENCE | M | 5 | 0 | 14 |
| 015035 | COMPONENT OF ZENITH PATH DELAY DUE TO WATER VAPOUR | M | 4 | 0 | 14 |
| 015036 | ATMOSPHERIC REFRACTIVITY (SEE NOTE 5) | N-UNITS | 3 | 0 | 19 |
| 015037 | BENDING ANGLE | RADIANS | 8 | -100000 | 23 |
| 019001 | TYPE OF SYNOPTIC FEATURE | CODE TABLE 19001 | 0 | 0 | 6 |
| 019002 | EFFECTIVE RADIUS OF FEATURE | M | -2 | 0 | 12 |
| 019003 | WIND SPEED THRESHOLD | M/S | 0 | 0 | 8 |
| 019004 | EFFECTIVE RADIUS WITH RESPECT TO WIND SPEEDS ABOVE THRESHOLD | M | -2 | 0 | 12 |
| 019005 | DIRECTION OF MOTION OF FEATURE | DEGREE TRUE | 0 | 0 | 9 |
| 019006 | SPEED OF MOTION OF FEATURE | M/S | 2 | 0 | 14 |
| 019007 | EFFECTIVE RADIUS OF FEATURE | M | -3 | 0 | 12 |
| 019008 | VERTICAL EXTENT OF CIRCULATION | CODE TABLE 19008 | 0 | 0 | 3 |
| 019009 | EFFECTIVE RADIUS WITH RESPECT TO WIND SPEEDS ABOVE THRESHOLD (LA | M | -3 | 0 | 12 |
| 019010 | METHOD FOR TRACKING THE CENTRE OF SYNOPTIC FEATURE | CODE TABLE 19010 | 0 | 0 | 4 |
| 019100 | TIME INTERVAL TO CALCULATE THE MOVEMENT OF THE TROPICAL CYCLONE | CODE TABLE 19100 | 0 | 0 | 4 |
| 019101 | ACCURACY OF THE POSITION OF THE CENTRE OF THE TROPICAL CYCLONE | CODE TABLE 19101 | 0 | 0 | 4 |
| 019102 | SHAPE AND DEFINITION OF THE EYE OF THE TROPICAL CYCLONE | CODE TABLE 19102 | 0 | 0 | 3 |
| 019103 | DIAMETER OF MAJOR AXIS OF THE EYE OF THE TROPICAL CYCLONE | CODE TABLE 19103 | 0 | 0 | 4 |
| 019104 | CHANGE IN CHARACTER OF THE EYE DURING THE 30 MINUTES | CODE TABLE 19104 | 0 | 0 | 4 |
| 019105 | DISTANCE BETWEEN THE END OF SPIRAL BAND AND THE CENTRE | CODE TABLE 19105 | 0 | 0 | 4 |
| 019106 | IDENTIFICATION NUMBER OF TROPICAL CYCLONE | NUMERIC | 0 | 0 | 7 |
| 019107 | TIME INTERVAL OF THE TROPICAL CYCLONE ANALYSIS | CODE TABLE 19107 | 0 | 0 | 4 |
| 019108 | ACCURACY OF GEOGRAPHICAL POSITION OF THE TROPICAL CYCLONE | CODE TABLE 19108 | 0 | 0 | 3 |
| 019109 | MEAN DIAMETER OF THE OVERCAST CLOUD OF THE TROPICAL CYCLONE | CODE TABLE 19109 | 0 | 0 | 4 |
| 019110 | APPARENT 24-HOUR CHANGE IN INTENSITY OF TROPICAL CYCLONE | CODE TABLE 19110 | 0 | 0 | 4 |
| 019111 | CURRENT INTENSITY (CI) NUMBER OF THE TROPICAL CYCLONE | NUMERIC | 1 | 0 | 7 |
| 019112 | DATA TROPICAL (DT) NUMBER OF THE TROPICAL CYCLONE | NUMERIC | 1 | 0 | 7 |
| 019113 | CLOUD PATTERN TYPE OF THE DT- NUMBER | CODE TABLE 19113 | 0 | 0 | 4 |
| 019114 | MODEL EXPECTED TROPICAL (MET) NUMBER OF THE TROPICAL CYCLONE | NUMERIC | 1 | 0 | 7 |
| 019115 | TREND OF PAST 24-HOUR CHANGE (+: DEVELOPED, -: WEAKENED) | NUMERIC | 1 | -30 | 6 |
| 019116 | PATTERN TROPICAL (PT) NUMBER OF THE TROPICAL CYCLONE | NUMERIC | 1 | 0 | 7 |
| 019117 | CLOUD PICTURE TYPE OF THE PT- NUMBER | CODE TABLE 19117 | 0 | 0 | 3 |
| 019118 | FINAL TROPICAL (T) NUMBER OF THE TROPICAL CYCLONE | NUMERIC | 1 | 0 | 7 |
| 019119 | TYPE OF THE FINAL T-NUMBER | CODE TABLE 19119 | 0 | 0 | 3 |
| 019150 | TYPHOON INTERNATIONAL COMMON NUMBER (TYPHOON COMMITTEE) | CCITTIA5 | 0 | 0 | 32 |
| 020001 | HORIZONTAL VISIBILITY | M | -1 | 0 | 13 |
| 020002 | VERTICAL VISIBILITY | M | -1 | 0 | 7 |
| 020003 | PRESENT WEATHER (SEE NOTE 1) | CODE TABLE 20003 | 0 | 0 | 9 |
| 020004 | PAST WEATHER (1) (SEE NOTE 2) | CODE TABLE 20004 | 0 | 0 | 5 |
| 020005 | PAST WEATHER (2) (SEE NOTE 2) | CODE TABLE 20005 | 0 | 0 | 5 |
| 020008 | CLOUD DISTRIBUTION FOR AVIATION | CODE TABLE 20008 | 0 | 0 | 5 |
| 020009 | GENERAL WEATHER INDICATOR (TAF/METAR) | CODE TABLE 20009 | 0 | 0 | 4 |
| 020010 | CLOUD COVER (TOTAL) | % | 0 | 0 | 7 |
| 020011 | CLOUD AMOUNT | CODE TABLE 20011 | 0 | 0 | 4 |
| 020012 | CLOUD TYPE | CODE TABLE 20012 | 0 | 0 | 6 |
| 020013 | HEIGHT OF BASE OF CLOUD | M | -1 | -40 | 11 |
| 020014 | HEIGHT OF TOP OF CLOUD | M | -1 | -40 | 11 |
| 020015 | PRESSURE AT BASE OF CLOUD | PA | -1 | 0 | 14 |
| 020016 | PRESSURE AT TOP OF CLOUD | PA | -1 | 0 | 14 |
| 020017 | CLOUD TOP DESCRIPTION | CODE TABLE 20017 | 0 | 0 | 4 |
| 020018 | TENDENCY OF RUNWAY VISUAL RANGE | CODE TABLE 20018 | 0 | 0 | 2 |
| 020019 | SIGNIFICANT PRESENT OR FORECAST WEATHER | CCITTIA5 | 0 | 0 | 72 |
| 020020 | SIGNIFICANT RECENT WEATHER PHENOMENA | CCITTIA5 | 0 | 0 | 32 |
| 020021 | TYPE OF PRECIPITATION | FLAG TABLE 20021 | 0 | 0 | 30 |
| 020022 | CHARACTER OF PRECIPITATION | CODE TABLE 20022 | 0 | 0 | 4 |
| 020023 | OTHER WEATHER PHENOMENA | FLAG TABLE 20023 | 0 | 0 | 18 |
| 020024 | INTENSITY OF PHENOMENA | CODE TABLE 20024 | 0 | 0 | 3 |
| 020025 | OBSCURATION | FLAG TABLE 20025 | 0 | 0 | 21 |
| 020026 | CHARACTER OF OBSCURATION | CODE TABLE 20026 | 0 | 0 | 4 |
| 020027 | PHENOMENA OCCURRENCE | FLAG TABLE 20027 | 0 | 0 | 9 |
| 020029 | RAIN FLAG | CODE TABLE 20029 | 0 | 0 | 2 |
| 020031 | ICE DEPOSIT (THICKNESS) | M | 2 | 0 | 7 |
| 020032 | RATE OF ICE ACCRETION | CODE TABLE 20032 | 0 | 0 | 3 |
| 020033 | CAUSE OF ICE ACCRETION | FLAG TABLE 20033 | 0 | 0 | 4 |
| 020034 | SEA ICE CONCENTRATION | CODE TABLE 20034 | 0 | 0 | 5 |
| 020035 | AMOUNT AND TYPE OF ICE | CODE TABLE 20035 | 0 | 0 | 4 |
| 020036 | ICE SITUATION | CODE TABLE 20036 | 0 | 0 | 5 |
| 020037 | ICE DEVELOPMENT | CODE TABLE 20037 | 0 | 0 | 5 |
| 020038 | BEARING OF ICE EDGE (SEE NOTE 3) | DEGREE TRUE | 0 | 0 | 12 |
| 020039 | ICE DISTANCE | M | -1 | 0 | 13 |
| 020040 | EVOLUTION OF DRIFT OF SNOW | CODE TABLE 20040 | 0 | 0 | 4 |
| 020041 | AIRFRAME ICING | CODE TABLE 20041 | 0 | 0 | 4 |
| 020042 | AIRFRAME ICING PRESENT | CODE TABLE 20042 | 0 | 0 | 2 |
| 020043 | PEAK LIQUID WATER CONTENT | KG/M**3 | 4 | 0 | 7 |
| 020044 | AVERAGE LIQUID WATER CONTENT | KG/M**3 | 4 | 0 | 7 |
| 020045 | SUPERCOOLED LARGE DROPLET (SLD) CONDITIONS | CODE TABLE 20045 | 0 | 0 | 2 |
| 020050 | CLOUD INDEX | CODE TABLE 20050 | 0 | 0 | 8 |
| 020051 | AMOUNT OF LOW CLOUDS | % | 0 | 0 | 7 |

| | | | | | |
|--------|---|------------------|----|--------|----|
| 020052 | AMOUNT OF MIDDLE CLOUDS | % | 0 | 0 | 7 |
| 020053 | AMOUNT OF HIGH CLOUDS | % | 0 | 0 | 7 |
| 020054 | TRUE DIRECTION FROM WHICH CLOUDS ARE MOVING | DEGREE TRUE | 0 | 0 | 9 |
| 020055 | STATE OF SKY IN TROPICS | CODE TABLE 20055 | 0 | 0 | 4 |
| 020056 | CLOUD PHASE | CODE TABLE 20056 | 0 | 0 | 3 |
| 020059 | MINIMUM HORIZONTAL VISIBILITY | M | -1 | 0 | 9 |
| 020060 | PREVAILING HORIZONTAL VISIBILITY | M | -1 | 0 | 10 |
| 020061 | RUNWAY VISUAL RANGE (RVR) | M | 0 | 0 | 12 |
| 020062 | STATE OF THE GROUND (WITH OR WITHOUT SNOW) | CODE TABLE 20062 | 0 | 0 | 5 |
| 020063 | SPECIAL PHENOMENA | CODE TABLE 20063 | 0 | 0 | 10 |
| 020065 | SNOW COVER (SEE NOTE 4) | % | 0 | 0 | 7 |
| 020066 | MAXIMUM DIAMETER OF HAILSTONES | M | 3 | 0 | 8 |
| 020067 | DIAMETER OF DEPOSIT | M | 3 | 0 | 9 |
| 020070 | MINIMUM NUMBER OF ATMOSPHERICS | NUMERIC | 0 | 0 | 7 |
| 020071 | ACCURACY OF FIX AND RATE OF ATMOSPHERICS | CODE TABLE 20071 | 0 | 0 | 4 |
| 020081 | CLOUD AMOUNT IN SEGMENT | % | 0 | 0 | 7 |
| 020082 | AMOUNT SEGMENT CLOUD FREE | % | 0 | 0 | 7 |
| 020083 | AMOUNT OF SEGMENT COVERED BY SCENE | % | 0 | 0 | 7 |
| 020085 | GENERAL CONDITION OF RUNWAY | CODE TABLE 20085 | 0 | 0 | 4 |
| 020086 | RANWAY DEPOSITS | CODE TABLE 20086 | 0 | 0 | 4 |
| 020087 | RUNWAY CONTAMINATION | CODE TABLE 20087 | 0 | 0 | 4 |
| 020088 | DEPTH OF RANWAY DEPOSITS | M | 3 | 0 | 12 |
| 020089 | RUNWAY FRICTION COEFFICIENT | CODE TABLE 20089 | 0 | 0 | 7 |
| 020090 | SPECIAL CLOUDS | CODE TABLE 20090 | 0 | 0 | 4 |
| 020091 | VERTICAL VISIBILITY | FEET | -2 | 0 | 10 |
| 020092 | HEIGHT OF BASE OF CLOUD | FEET | -2 | 0 | 10 |
| 020095 | ICE PROBABILITY | NUMERIC | 3 | 0 | 10 |
| 020096 | ICE AGE ("A" PARAMETER) | dB | 2 | -4096 | 13 |
| 020101 | LOCUST (ACRIDIAN) NAME | CODE TABLE 20101 | 0 | 0 | 4 |
| 020102 | LOCUST (MATURITY) COLOR | CODE TABLE 20102 | 0 | 0 | 4 |
| 020103 | STAGE OF DEVELOPMENT OF LOCUSTS | CODE TABLE 20103 | 0 | 0 | 4 |
| 020104 | ORGANIZATION STATE OF SWARM OR BAND OF LOCUSTS | CODE TABLE 20104 | 0 | 0 | 4 |
| 020105 | SIZE OF SWARM OR BAND OF LOCUSTS AND DURATION OF PASSAGE OF SWARM | CODE TABLE 20105 | 0 | 0 | 4 |
| 020106 | LOCUST POPULATION DENSITY | CODE TABLE 20106 | 0 | 0 | 4 |
| 020107 | DIRECTION OF MOVEMENTS OF LOCUST SWARM | CODE TABLE 20107 | 0 | 0 | 4 |
| 020108 | EXTENT OF VEGETATION | CODE TABLE 20108 | 0 | 0 | 4 |
| 020192 | SPECIAL PHENOMENA | CODE TABLE 20192 | 0 | 0 | 14 |
| 021001 | HORIZONTAL REFLECTIVITY | dB | 0 | -64 | 7 |
| 021002 | VERTICAL REFLECTIVITY | dB | 0 | -64 | 7 |
| 021003 | DIFFERENTIAL REFLECTIVITY | dB | 1 | -5 | 7 |
| 021005 | LINEAR DEPOLARISATION RATIO | dB | 0 | -65 | 6 |
| 021006 | CIRCULAR DEPOLARISATION RATIO | dB | 0 | -65 | 6 |
| 021011 | DOPPLER MEAN VELOCITY IN X-DIRECTION | M/S | 0 | -128 | 8 |
| 021012 | DOPPLER MEAN VELOCITY IN Y-DIRECTION | M/S | 0 | -128 | 8 |
| 021013 | DOPPLER MEAN VELOCITY IN Z-DIRECTION | M/S | 0 | -128 | 8 |
| 021014 | DOPPLER MEAN VELOCITY (RADIAL) | M/S | 1 | -4096 | 13 |
| 021017 | DOPPLER VELOCITY SPECTRAL WIDTH | M/S | 1 | 0 | 8 |
| 021021 | ECHO TOPS | M | -3 | 0 | 4 |
| 021030 | SIGNAL TO NOISE RATIO | dB | 0 | -32 | 8 |
| 021031 | VERTICALLY INTEGRATED LIQUID-WATER CONTENT | KG/M**2 | 0 | 0 | 7 |
| 021036 | RADAR RAINFALL INTENSITY | M/S | 7 | 0 | 12 |
| 021041 | BRIGHT-BAND HEIGHT | M | -2 | 0 | 8 |
| 021051 | SIGNAL POWER ABOVE 1 MW | dB | 0 | -256 | 8 |
| 021062 | BACKSCATTER | dB | 2 | -5000 | 13 |
| 021063 | RADIOMETRIC RESOLUTION (NOISE VALUE) | % | 1 | 0 | 10 |
| 021064 | CLUTTER NOISE ESTIMATE | NUMERIC | 0 | 0 | 8 |
| 021065 | MISSING PACKET COUNTER | NUMERIC | 0 | -127 | 8 |
| 021066 | WAVE SCATTEROMETER PRODUCT CONFIDENCE DATA | FLAG TABLE 21066 | 0 | 0 | 12 |
| 021067 | WIND PRODUCT CONFIDENCE DATA | FLAG TABLE 21067 | 0 | 0 | 13 |
| 021068 | RADAR ALTIMETER PRODUCT CONFIDENCE DATA | FLAG TABLE 21068 | 0 | 0 | 8 |
| 021069 | SST PRODUCT CONFIDENCE DATA | FLAG TABLE 21069 | 0 | 0 | 10 |
| 021070 | SST PRODUCT CONFIDENCE DATA (SADIST-2) | FLAG TABLE 21070 | 0 | 0 | 23 |
| 021071 | PEAKINESS | NUMERIC | 0 | 0 | 16 |
| 021072 | SATELLITE ALTIMETER CALIBRATION STATUS | FLAG TABLE 21072 | 0 | 0 | 4 |
| 021073 | SATELLITE ALTIMETER INSTRUMENT MODE | FLAG TABLE 21073 | 0 | 0 | 9 |
| 021075 | IMAGE SPECTRUM INTENSITY | NUMERIC | 0 | 0 | 8 |
| 021076 | REPRESENTATION OF INTENSITIES | CODE TABLE 21076 | 0 | 0 | 3 |
| 021077 | ALTITUDE CORRECTION (IONOSPHERE) | M | 3 | 0 | 14 |
| 021078 | ALTITUDE CORRECTION (DRY TROPOSPHERE) | M | 3 | 0 | 9 |
| 021079 | ALTITUDE CORRECTION (WET TROPOSPHERE) | M | 3 | 2000 | 10 |
| 021080 | ALTITUDE CORRECTION (CALIBRATION CONSTANT) | M | 3 | 0 | 11 |
| 021081 | OPEN LOOP CORRECTION (HEIGHT-TIME LOOP) | M | 3 | 0 | 10 |
| 021082 | OPEN LOOP CORRECTION (AUTO GAIN CONTROL) | dB | 3 | -3000 | 14 |
| 021083 | WARM TARGET CALIBRATION | NUMERIC | 0 | 0 | 16 |
| 021084 | COLD TARGET CALIBRATION | NUMERIC | 0 | 0 | 16 |
| 021085 | ATSR SEA SURFACE TEMPERATURE ACROSS- TRACK BAND NUMBER | NUMERIC | 0 | 0 | 4 |
| 021086 | NUMBER OF PIXELS IN NADIR ONLY, AVERAGE | NUMERIC | 0 | 0 | 9 |
| 021087 | NUMBER OF PIXELS IN DUAL VIEW, AVERAGE | NUMERIC | 0 | 0 | 9 |
| 021088 | WET BACKSCATTER | dB | 2 | -5000 | 13 |
| 021091 | RADAR SIGNAL DOPPLER SPECTRUM 0TH MOMENT | dB | 0 | -100 | 8 |
| 021092 | RASS SIGNAL DOPPLER SPECTRUM 0TH MOMENT, REFERRING TO RASS SIGNAL | dB | 0 | -100 | 8 |
| 021093 | Ku BAND PEAKINESS | NUMERIC | 3 | 0 | 16 |
| 021094 | S BAND PEAKINESS | NUMERIC | 3 | 0 | 16 |
| 021101 | NUMBER OF VECTOR AMBIGUITIES | NUMERIC | 0 | 0 | 3 |
| 021102 | INDEX OF SELECTED WIND VECTOR | NUMERIC | 0 | 0 | 3 |
| 021103 | TOTAL NUMBER OF SIGMA-0 MEASUREMENTS | NUMERIC | 0 | 0 | 5 |
| 021104 | LIKELIHOOD COMPUTED FOR SOLUTION | NUMERIC | 3 | -30000 | 15 |
| 021105 | NORMALIZED RADAR CROSS-SECTION | dB | 2 | -10000 | 14 |
| 021106 | KP VARIANCE COEFFICIENT (ALPHA) | NUMERIC | 3 | 0 | 14 |
| 021107 | KP VARIANCE COEFFICIENT (BETA) | NUMERIC | 8 | 0 | 16 |
| 021109 | SEAWINDS WIND VECTOR CELL QUALITY | FLAG TABLE 21109 | 0 | 0 | 17 |
| 021110 | NUMBER OF INNER-BEAM SIGMA-0 (FORWARD OF SATELLITE) | NUMERIC | 0 | 0 | 6 |
| 021111 | NUMBER OF OUTER-BEAM SIGMA-0 (FORWARD OF SATELLITE) | NUMERIC | 0 | 0 | 6 |



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| 021112 | NUMBER OF INNER-BEAM SIGMA-0 (AFT OF SATELLITE) | NUMERIC | 0 | 0 | 6 |
| 021113 | NUMBER OF OUTER-BEAM SIGMA-0 (AFT OF SATELLITE) | NUMERIC | 0 | 0 | 6 |
| 021114 | KP VARIANCE COEFFICIENT (GAMMA) | dB | 3 | -140000 | 18 |
| 021115 | SEAWINDS SIGMA-0 QUALITY | FLAG TABLE 21115 | 0 | 0 | 17 |
| 021116 | SEAWINDS SIGMA-0 MODE | FLAG TABLE 21116 | 0 | 0 | 17 |
| 021117 | SIGMA-0 VARIANCE QUALITY CONTROL | NUMERIC | 2 | 0 | 16 |
| 021118 | ATTENUATION CORRECTION ON SIGMA-0 | dB | 2 | -10000 | 14 |
| 021119 | WIND SCATTEROMETER GEOPHYSICAL MODEL FUNCTION | CODE TABLE 21119 | 0 | 0 | 6 |
| 021120 | PROBABILITY OF RAIN | NUMERIC | 3 | 0 | 10 |
| 021121 | SEAWINDS NOF* RAIN INDEX | NUMERIC | 0 | 0 | 8 |
| 021122 | ATTENUATION CORRECTION OF SIGMA-0 (FROM TB) | dB | 2 | -10000 | 14 |
| 021123 | SEAWINDS NORMALIZED RADAR CROSS SECTION | dB | 2 | -30000 | 15 |
| 021128 | NUMBER OF VALID POINTS PER SECOND USED TO DERIVE PREVIOUS PARAME | NUMERIC | 0 | 0 | 8 |
| 021130 | SPECTRUM TOTAL ENERGY | NUMERIC | 6 | 0 | 28 |
| 021131 | SPECTRUM MAX ENERGY | NUMERIC | 6 | 0 | 28 |
| 021132 | DIRECTION OF SPECTRUM MAX ON HIGHER RESOLUTION GRID | DEGREE | 3 | 0 | 19 |
| 021133 | WAVE-LENGTH OF SPECTRUM MAX ON HIGHER RESOLUTION GRID | M | 3 | 0 | 29 |
| 021134 | RANGE RESOLUTION OF CRESS COVARIANCE SPECTRUM | RAD/M | 3 | 0 | 19 |
| 021135 | REAL PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS | NUMERIC | 3 | -524288 | 20 |
| 021136 | IMAGINARY PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS | NUMERIC | 3 | -524288 | 20 |
| 021137 | KU BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT | dB | 2 | -32768 | 16 |
| 021138 | STD KU BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT | dB | 2 | -32768 | 16 |
| 021139 | KU BAND NET INSTRUMENTAL CORRECTION FOR AGC | dB | 2 | -2048 | 12 |
| 021140 | S BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT | dB | 2 | -32768 | 16 |
| 021141 | STD S BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT | dB | 2 | -32768 | 16 |
| 021142 | S BAND NET INSTRUMENTAL CORRECTION FOR AGC | dB | 2 | -1024 | 11 |
| 021143 | KU BAND RAIN ATTENUATION | dB | 2 | -1073741824 | 31 |
| 021144 | ALTIMETER RAIN FLAG | FLAG TABLE 21144 | 0 | 0 | 2 |
| 021150 | BEAM COLLOCATION | CODE TABLE 21150 | 0 | 0 | 2 |
| 021151 | ESTIMATED ERROR IN SIGMA0 AT 40DEG INCIDENCE ANGLE | dB | 2 | 0 | 9 |
| 021152 | SLOPE AT 40DEG INCIDENCE ANGLE | dB/DEG | 2 | -80 | 7 |
| 021153 | ESTIMATED ERROR IN SLOPE AT 40DEG INCIDENCE ANGLE | dB/DEG | 2 | -40 | 6 |
| 021154 | SOIL MOISTURE SENSITIVITY | dB | 2 | 0 | 12 |
| 021155 | WIND VECTOR CELL QUALITY | FLAG TABLE 21155 | 0 | 0 | 24 |
| 021156 | BACKSCATTER DISTANCE | NUMERIC | 1 | -4096 | 13 |
| 021157 | LOSS PER UNIT LENGTH OF ATMOSPHERE USED | dB/M | 10 | 0 | 22 |
| 021158 | ASCAT kp ESTIMATE QUALITY | CODE TABLE 21158 | 0 | 0 | 2 |
| 021159 | ASCAT SIGMA-0 USABILITY | CODE TABLE 21159 | 0 | 0 | 2 |
| 021160 | ASCAT USE OF SYNTHETIC DATA | NUMERIC | 3 | 0 | 10 |
| 021161 | ASCAT SYNTHETIC DATA QUALITY | NUMERIC | 3 | 0 | 10 |
| 021162 | ASCAT SATELLITE ORBIT AND ATTITUDE QUALITY | NUMERIC | 3 | 0 | 10 |
| 021163 | ASCAT SOLAR ARRAY REFLECTION CONTAMINATION | NUMERIC | 3 | 0 | 10 |
| 021164 | ASCAT TELEMETRY PRESENCE AND QUALITY | NUMERIC | 3 | 0 | 10 |
| 021165 | ASCAT EXTRAPOLATED REFERENCE FUNCTION PRESENCE | NUMERIC | 3 | 0 | 10 |
| 021166 | ASCAT LAND FRACTION | NUMERIC | 3 | 0 | 10 |
| 021192 | RADAR BACK SCATTER | dB | 2 | -5000 | 13 |
| 022001 | DIRECTION OF WAVES | DEGREE TRUE | 0 | 0 | 9 |
| 022002 | DIRECTION OF WIND WAVES | DEGREE TRUE | 0 | 0 | 9 |
| 022003 | DIRECTION OF SWELL WAVES | DEGREE TRUE | 0 | 0 | 9 |
| 022004 | DIRECTION OF CURRENT | DEGREE TRUE | 0 | 0 | 9 |
| 022005 | DIRECTION OF SEA SURFACE CURRENT | DEGREE TRUE | 0 | 0 | 9 |
| 022011 | PERIOD OF WAVES | S | 0 | 0 | 6 |
| 022012 | PERIOD OF WIND WAVES | S | 0 | 0 | 6 |
| 022013 | PERIOD OF SWELL WAVES | S | 0 | 0 | 6 |
| 022021 | HEIGHT OF WAVES | M | 1 | 0 | 10 |
| 022022 | HEIGHT OF WIND WAVES | M | 1 | 0 | 10 |
| 022023 | HEIGHT OF SWELL WAVES | M | 1 | 0 | 10 |
| 022025 | STANDARD DEVIATION WAVE HEIGHT | M | 2 | 0 | 10 |
| 022026 | STANDARD DEVIATION OF SIGNIFICANT WAVE HEIGHT | M | 2 | 0 | 10 |
| 022031 | SPEED OF CURRENT | M/S | 2 | 0 | 13 |
| 022032 | SPEED OF SEA SURFACE CURRENT | M/S | 2 | 0 | 13 |
| 022035 | TIDAL ELEVATION WITH RESPECT TO LOCAL CHART DATUM | M | 2 | 0 | 14 |
| 022036 | METEOROLOGICAL RESIDUAL TIDAL ELEVATION (SURGE OR OFFSET) | M | 2 | 0 | 14 |
| 022037 | TIDAL ELEVATION WITH RESPECT TO NATIONAL LAND DATUM | M | 3 | -10000 | 15 |
| 022038 | TIDAL ELEVATION WITH RESPECT TO LOCAL CHART DATUM | M | 3 | -10000 | 15 |
| 022039 | METEOROLOGICAL RESIDUAL TIDAL ELEVATION (SURGE OR OFFSET) | M | 3 | -5000 | 12 |
| 022040 | METEOROLOGICAL RESIDUAL TIDAL ELEVATION (SURGE OR OFFSET) | M | 3 | -5000 | 14 |
| 022041 | SEA-SURFACE TEMPERATURE (15-DAY RUNNING MEAN) | K | 1 | 0 | 12 |
| 022042 | SEA/WATER TEMPERATURE | K | 1 | 0 | 12 |
| 022043 | SEA/WATER TEMPERATURE | K | 2 | 0 | 15 |
| 022044 | SOUND VELOCITY | M/S | 1 | 0 | 14 |
| 022045 | SEA/WATER TEMPERATURE | K | 3 | 0 | 19 |
| 022049 | SEA SURFACE TEMPERATURE | K | 2 | 0 | 15 |
| 022050 | STANDARD DEVIATION SEA-SURFACE TEMPERATURE | K | 2 | 0 | 8 |
| 022055 | FLOAT CYCLE NUMBER | NUMERIC | 0 | 0 | 10 |
| 022056 | DIRECTION OF PROFILE | CODE TABLE 22056 | 0 | 0 | 2 |
| 022059 | SEA SURFACE SALINITY | PART PER THOUSAND | 2 | 0 | 14 |
| 022060 | LAGRANGIAN DRIFTER DROGUE STATUS | CODE TABLE 22060 | 0 | 0 | 3 |
| 022061 | STATE OF THE SEA | CODE TABLE 22061 | 0 | 0 | 4 |
| 022062 | SALINITY | PART PER THOUSAND | 2 | 0 | 14 |
| 022063 | TOTAL WATER DEPTH | M | 0 | 0 | 14 |
| 022064 | SALINITY | PART PER THOUSAND | 3 | 0 | 17 |
| 022065 | WATER PRESSURE | PA | -3 | 0 | 17 |
| 022066 | WATER CONDUCTIVITY | S M-1 | 6 | 0 | 26 |
| 022067 | INSTRUMENT TYPE FOR WATER TEMPERATURE PROFILE MEASUREMENT | CODE TABLE 22067 | 0 | 0 | 10 |
| 022068 | WATER TEMPERATURE PROFILE RECORDER TYPES | CODE TABLE 22068 | 0 | 0 | 7 |
| 022069 | SPECTRAL WAVE DENSITY | M2HZ-1 | 3 | 0 | 22 |
| 022070 | SIGNIFICANT WAVE HEIGHT | M | 2 | 0 | 13 |
| 022071 | SPECTRAL PEAK WAVE PERIOD | S | 1 | 0 | 9 |
| 022072 | SPECTRAL PEAK WAVE LENGTH | M | 0 | 0 | 13 |
| 022073 | MAXIMUM WAVE HEIGHT | M | 2 | 0 | 13 |
| 022074 | AVERAGE WAVE PERIOD | S | 1 | 0 | 9 |
| 022075 | AVERAGE WAVE LENGTH | M | 0 | 0 | 13 |

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| 022076 | DIRECTION FROM WHICH DOMINANT WAVES ARE COMING | DEGREE TRUE | 0 | 0 | 9 |
| 022077 | DIRECTIONAL SPREAD OF DOMINANT WAVE | DEGREE | 0 | 0 | 9 |
| 022078 | DURATION OF WAVE RECORD | S | 0 | 0 | 12 |
| 022079 | LENGTH OF WAVE RECORD | M | 0 | 0 | 16 |
| 022080 | WAVEBAND CENTRAL FREQUENCY | Hz | 3 | 0 | 10 |
| 022081 | WAVEBAND CENTRAL WAVE NUMBER | 1/M | 5 | 0 | 13 |
| 022082 | MAXIMUM NON-DIRECTIONAL SPECTRAL WAVE DENSITY | M**2S | 2 | 0 | 20 |
| 022083 | MAXIMUM NON-DIRECTIONAL SPECTRAL WAVE NUMBER | M**3 | 2 | 0 | 20 |
| 022084 | BAND CONTAINING MAXIMUM NON- DIRECTIONAL SPECTRAL WAVE DENSITY | NUMERIC | 0 | 0 | 7 |
| 022085 | SPECTRAL WAVE DENSITY RATIO | NUMERIC | 0 | 0 | 7 |
| 022086 | MEAN DIRECTION FROM WHICH WAVES ARE COMING | DEGREE TRUE | 0 | 0 | 9 |
| 022087 | PRINCIPAL DIRECTION FROM WHICH WAVES ARE COMING | DEGREE TRUE | 0 | 0 | 9 |
| 022088 | FIRST NORMALIZED POLAR COORDINATE FROM FOURIER COEFFICIENTS | NUMERIC | 2 | 0 | 7 |
| 022089 | SECOND NORMALIZED POLAR COORDINATE FROM FOURIER COEFFICIENTS | NUMERIC | 2 | 0 | 7 |
| 022090 | NON-DIRECTIONAL SPECTRAL ESTIMATE BY WAVE FREQUENCY | M**2S | 2 | 0 | 20 |
| 022091 | NON-DIRECTIONAL SPECTRAL ESTIMATE BY WAVE NUMBER | M**3 | 2 | 0 | 20 |
| 022092 | DIRECTIONAL SPECTRAL ESTIMATE BY WAVE FREQUENCY | M**2S/RAD | 2 | 0 | 20 |
| 022093 | DIRECTIONAL SPECTRAL ESTIMATE BY WAVE NUMBER | M**4 | 2 | 0 | 20 |
| 022094 | TOTAL NUMBER OF WAVE BANDS | NUMERIC | 0 | 0 | 7 |
| 022095 | DIRECTIONAL SPREAD OF INDIVIDUAL WAVES | DEGREE | 0 | 0 | 8 |
| 022096 | SPECTRAL BAND WIDTH | 1/S | 3 | 0 | 4 |
| 022097 | MEAN WAVELENGTH > 731 M OF IMAGE SPECTRUM AT LOW WAVE NUMBERS | M | 0 | 0 | 14 |
| 022098 | WAVELENGTH SPREAD (WAVELENGTH > 731 M) AT LOW WAVE NUMBERS | M | 0 | 0 | 14 |
| 022099 | MEAN DIRECTION AT LOW WAVE NUMBERS (WAVELENGTH > 731 M) | DEGREE TRUE | 0 | 0 | 9 |
| 022100 | DIRECTION SPREAD AT LOW WAVE NUMBERS (WAVELENGTH > 731 M) | DEGREE | 0 | 0 | 9 |
| 022101 | TOTAL ENERGY (WAVELENGTH > 731M) AT LOW WAVE NUMBERS | NUMERIC | 0 | 0 | 31 |
| 022120 | TIDE STATION AUTOMATED WATER LEVEL CHECK | CODE TABLE 22120 | 0 | 0 | 5 |
| 022121 | TIDE STATION MANUAL WATER LEVEL CHECK | CODE TABLE 22121 | 0 | 0 | 5 |
| 022122 | TIDE STATION AUTOMATED METEOROLOGICAL DATA CHECK | CODE TABLE 22122 | 0 | 0 | 5 |
| 022123 | TIDE STATION MANUAL METEOROLOGICAL DATA CHECK | CODE TABLE 22123 | 0 | 0 | 5 |
| 022141 | SEA-SURFACE TEMPERATURE (15-DAY RUNNING MEAN) | K | 2 | 0 | 15 |
| 022150 | NUMBER OF 18 HZ VALID POINTS FOR KU BAND | NUMERIC | 0 | 0 | 10 |
| 022151 | KU BAND OCEAN RANGE | M | 3 | 0 | 31 |
| 022152 | STD OF 18 HZ KU BAND OCEAN RANGE | M | 3 | 0 | 16 |
| 022153 | NUMBER OF 18 HZ VALID POINTS FOR S BAND | NUMERIC | 0 | 0 | 10 |
| 022154 | S BAND OCEAN RANGE | M | 3 | 0 | 31 |
| 022155 | STD OF 18 HZ S BAND OCEAN RANGE | M | 3 | 0 | 16 |
| 022156 | KU BAND SIGNIFICANT WAVE HEIGHT | M | 3 | 0 | 16 |
| 022157 | STD 18HZ KU BAND SIGNIFICANT WAVE HEIGHT | M | 3 | 0 | 16 |
| 022158 | S BAND SIGNIFICANT WAVE HEIGHT | M | 3 | 0 | 16 |
| 022159 | STD 18HZ S BAND SIGNIFICANT WAVE HEIGHT | M | 3 | 0 | 16 |
| 022160 | NORMALIZED INVERSE WAVE AGE | NUMERIC | 6 | 0 | 21 |
| 022161 | WAVE SPECTRA | M**4 | 4 | 0 | 27 |
| 023001 | ACCIDENT EARLY NOTIFICATION ARTICLE APPLICABLE | CODE TABLE 23001 | 0 | 0 | 3 |
| 023002 | ACTIVITY OR FACILITY INVOLVED IN INCIDENT | CODE TABLE 23002 | 0 | 0 | 5 |
| 023003 | TYPE OF RELEASE | CODE TABLE 23003 | 0 | 0 | 3 |
| 023004 | COUNTERMEASURES TAKEN NEAR BORDER | CODE TABLE 23004 | 0 | 0 | 3 |
| 023005 | CAUSE OF INCIDENT | CODE TABLE 23005 | 0 | 0 | 2 |
| 023006 | INCIDENT SITUATION | CODE TABLE 23006 | 0 | 0 | 3 |
| 023007 | CHARACTERISTICS OF RELEASE | CODE TABLE 23007 | 0 | 0 | 3 |
| 023008 | STATE OF CURRENT RELEASE | CODE TABLE 23008 | 0 | 0 | 2 |
| 023009 | STATE OF EXPECTED RELEASE | CODE TABLE 23009 | 0 | 0 | 2 |
| 023016 | POSSIBILITY OF SIGNIFICANT CHEMICAL TOXIC HEALTH EFFECT | CODE TABLE 23016 | 0 | 0 | 2 |
| 023017 | FLOW DISCHARGE OF MAJOR RECIPIENT | M**3/S | 6 | 0 | 20 |
| 023018 | RELEASE BEHAVIOUR OVER TIME | CODE TABLE 23018 | 0 | 0 | 3 |
| 023019 | ACTUAL RELEASE HEIGHT | M | 0 | -15000 | 17 |
| 023021 | EFFECTIVE RELEASE HEIGHT | M | 0 | -15000 | 17 |
| 023022 | DISTANCE OF RELEASE POINT OR SITE OF INCIDENT | M | 0 | 0 | 24 |
| 023023 | MAIN TRANSPORT SPEED IN THE ATMOSPHERE | M/S | 1 | 0 | 12 |
| 023024 | MAIN TRANSPORT SPEED IN WATER | M/S | 2 | 0 | 13 |
| 023025 | MAIN TRANSPORT SPEED IN GROUND WATER | M/S | 2 | 0 | 13 |
| 023027 | MAIN TRANSPORT DIRECTION IN THE ATMOSPHERE | DEGREE TRUE | 0 | 0 | 9 |
| 023028 | MAIN TRANSPORT DIRECTION IN WATER | DEGREE TRUE | 0 | 0 | 9 |
| 023029 | MAIN TRANSPORT DIRECTION IN GROUND WATER | DEGREE TRUE | 0 | 0 | 9 |
| 023031 | POSSIBILITY THAT PLUME WILL ENCOUNTER PRECIPITATION IN STATE IN | CODE TABLE 23031 | 0 | 0 | 2 |
| 023032 | PLUME WILL ENCOUNTER CHANGE IN WIND DIRECTION AND/OR SPEED FLAG | CODE TABLE 23032 | 0 | 0 | 2 |
| 024001 | ESTIMATE OF AMOUNT OF RADIOACTIVITY RELEASED UP TO SPECIFIED TIM | Bq | -11 | 0 | 28 |
| 024002 | ESTIMATED MAXIMUM POTENTIAL RELEASE | Bq | -11 | 0 | 28 |
| 024003 | COMPOSITION OF RELEASE | CODE TABLE 24003 | 0 | 0 | 5 |
| 024004 | ELEMENT NAME | CCITIIA5 | 0 | 0 | 16 |
| 024005 | ISOTOPE MASS | NUMERIC | 0 | 0 | 9 |
| 024011 | DOSE | mSv | 2 | 0 | 32 |
| 024012 | TRAJECTORY DOSE (DEFINED LOCATION AND EXPECTED TIME OF ARRIVAL) | mSv | 2 | 0 | 32 |
| 024013 | GAMMA DOSE IN AIR ALONG THE MAIN TRANSPORT PATH (DEFINED LOCATIO | mSv | 2 | 0 | 32 |
| 024021 | AIR CONCENTRATION (OF NAMED ISOTOPE TYPE INCLUDING GROSS BETA) | Bq/M**3 | 2 | 0 | 32 |
| 024022 | CONCENTRATION IN PRECIPITATION (OF NAMES ISOTOPE TYPE) | Bq/L | 2 | 0 | 32 |
| 024023 | PULSE RATE OF BETA RADIATION | 1/S | 1 | 0 | 14 |
| 024024 | PULSE RATE OF GAMMA RADIATION | 1/S | 1 | 0 | 14 |
| 025001 | RANGE-GATE LENGTH | M | -1 | 0 | 6 |
| 025002 | NUMBER OF GATES AVERAGED | NUMERIC | 0 | 0 | 4 |
| 025003 | NUMBER OF INTEGRATED PULSES | NUMERIC | 0 | 0 | 8 |
| 025004 | ECHO PROCESSING | CODE TABLE 25004 | 0 | 0 | 2 |
| 025005 | ECHO INTEGRATION | CODE TABLE 25005 | 0 | 0 | 2 |
| 025006 | Z TO R CONVERSION | CODE TABLE 25006 | 0 | 0 | 3 |
| 025007 | Z TO R CONVERSION FACTOR | NUMERIC | 0 | 0 | 12 |
| 025008 | Z TO R CONVERSION EXPONENT | NUMERIC | 2 | 0 | 9 |
| 025009 | CALIBRATION METHOD | FLAG TABLE 25009 | 0 | 0 | 4 |
| 025010 | CLUTTER TREATMENT | CODE TABLE 25010 | 0 | 0 | 4 |
| 025011 | GROUND OCCULTATION CORRECTION (SCREENING) | CODE TABLE 25011 | 0 | 0 | 2 |
| 025012 | RANGE ATTENUATION CORRECTION | CODE TABLE 25012 | 0 | 0 | 2 |
| 025013 | BRIGHT-BAND CORRECTION | FLAG TABLE 25013 | 0 | 0 | 2 |
| 025014 | AZIMUTH CLUTTER CUT-OFF (SEE NOTE 1) | NUMERIC | 0 | 0 | 12 |
| 025015 | RADOME ATTENUATION CORRECTION | FLAG TABLE 25015 | 0 | 0 | 2 |



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| 025016 | CLEAR-AIR ATTENUATION CORRECTION | dB/M | 5 | 0 | 6 |
| 025017 | PRECIPITATION ATTENUATION CORRECTION | FLAG TABLE 25017 | 0 | 0 | 2 |
| 025018 | A TO Z LAW FOR ATTENUATION FACTOR | NUMERIC | 7 | 0 | 6 |
| 025019 | A TO Z LAW FOR ATTENUATION EXPONENT | NUMERIC | 2 | 0 | 7 |
| 025020 | MEAN SPEED ESTIMATION | CODE TABLE 25020 | 0 | 0 | 2 |
| 025021 | WIND COMPUTATION ENHANCEMENT | FLAG TABLE 25021 | 0 | 0 | 8 |
| 025025 | BATTERY VOLTAGE | V | 1 | 0 | 9 |
| 025026 | BATTERY VOLTAGE (LARGE RANGE) | V | 1 | 0 | 12 |
| 025028 | OPERATOR OR MANUFACTURER DEFINED PARAMETER | NUMERIC | 1 | -16384 | 15 |
| 025030 | RUNNING MEAN SEA-SURFACE TEMPERATURE USAGE | CODE TABLE 25030 | 0 | 0 | 2 |
| 025032 | WIND PROFILER MODE INFORMATION | CODE TABLE 25032 | 0 | 0 | 2 |
| 025033 | WIND PROFILER SUBMODE INFORMATION* | CODE TABLE 25033 | 0 | 0 | 2 |
| 025034 | WIND PROFILER QUALITY CONTROL TEST RESULTS* | FLAG TABLE 25034 | 0 | 0 | 4 |
| 025036 | ATMOSPHERICS LOCATION METHOD | CODE TABLE 25036 | 0 | 0 | 4 |
| 025040 | CO2 WIND PRODUCT DERIVATION | CODE TABLE 25040 | 0 | 0 | 4 |
| 025041 | MOVING PLATFORM DIRECTION REPORTING METHOD | CODE TABLE 25041 | 0 | 0 | 2 |
| 025042 | MOVING PLATFORM SPEED REPORTING METHOD | CODE TABLE 25042 | 0 | 0 | 2 |
| 025043 | WAVE SAMPLING INTERVAL (TIME) | S | 4 | 0 | 15 |
| 025044 | WAVE SAMPLING INTERVAL (SPACE) | M | 2 | 0 | 14 |
| 025045 | HIRS CHANNEL COMBINATION | FLAG TABLE 25045 | 0 | 0 | 21 |
| 025046 | MSU CHANNEL COMBINATION | FLAG TABLE 25046 | 0 | 0 | 5 |
| 025047 | SSU CHANNEL COMBINATION | FLAG TABLE 25047 | 0 | 0 | 4 |
| 025048 | AMSU-A CHANNEL COMBINATION | FLAG TABLE 25048 | 0 | 0 | 16 |
| 025049 | AMSU-B CHANNEL COMBINATION | FLAG TABLE 25049 | 0 | 0 | 6 |
| 025051 | AVHRR CHANNEL COMBINATION | FLAG TABLE 25051 | 0 | 0 | 7 |
| 025052 | LOG-10 OF PRINCIPAL COMPONENTS NORMALIZED FIT TO DATA | NUMERIC | 4 | 0 | 15 |
| 025053 | OBSERVATION QUALITY | FLAG TABLE 25053 | 0 | 0 | 12 |
| 025054 | SSMIS SUBFRAME ID NUMBER | NUMERIC | 0 | 0 | 5 |
| 025055 | MULTIPLEXER HOUSEKEEPING | K | 2 | 0 | 16 |
| 025060 | SOFTWARE IDENTIFICATION (SEE NOTE 2) | NUMERIC | 0 | 0 | 14 |
| 025061 | SOFTWARE IDENTIFICATION AND VERSION NUMBER | CCITIIA5 | 0 | 0 | 96 |
| 025062 | DATABASE IDENTIFICATION | NUMERIC | 0 | 0 | 14 |
| 025065 | ORIENTATION CORRECTION (AZIMUTH) | DEGREE | 2 | -1000 | 11 |
| 025066 | ORIENTATION CORRECTION (ELEVATION) | DEGREE | 2 | -1000 | 11 |
| 025067 | RADIOSONDE RELEASE POINT PRESSURE CORRECTION | PA | 0 | -8000 | 14 |
| 025068 | NUMBER OF ARCHIVE RECOMPUTES | NUMERIC | 0 | 0 | 7 |
| 025069 | FLIGHT LEVEL PRESSURE CORRECTIONS | FLAG TABLE 25069 | 0 | 0 | 8 |
| 025070 | MAJOR FRAME COUNT | NUMERIC | 0 | 0 | 4 |
| 025071 | FRAME COUNT | NUMERIC | 0 | 0 | 5 |
| 025075 | SATELLITE ANTENNA CORRECTIONS VERSION NUMBER | NUMERIC | 0 | 0 | 5 |
| 025076 | LOG-10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS | LOG (1/M) | 8 | 0 | 30 |
| 025077 | BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS | NUMERIC | 5 | -100000 | 18 |
| 025078 | BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS | NUMERIC | 5 | 0 | 17 |
| 025079 | ALBEDO-RADIANCE SOLAR FILTERED IRRADIANCE FOR ATOVS | W/M**2 | 4 | 0 | 24 |
| 025080 | ALBEDO-RADIANCE EQUIVALENT FILTER WIDTH FOR ATOVS | M | 10 | 0 | 14 |
| 025085 | FRACTION OF CLEAR PIXELS IN HIRS FOV | NUMERIC | 0 | 0 | 7 |
| 025086 | DEPTH CORRECTION INDICATOR | CODE TABLE 25086 | 0 | 0 | 2 |
| 025091 | STRUCTURE CONSTANT OF THE REFRACTION INDEX (CN2) | dB | 3 | -18192 | 13 |
| 025092 | ACOUSTIC PROPAGATION VELOCITY | M/S | 2 | 28000 | 14 |
| 025093 | RASS COMPUTATION CORRECTION | FLAG TABLE 25093 | 0 | 0 | 8 |
| 025095 | ALTIMETER STATE FLAG | FLAG TABLE 25095 | 0 | 0 | 2 |
| 025096 | RADIOMETER STATE FLAG | FLAG TABLE 25096 | 0 | 0 | 5 |
| 025097 | THREE DIMENSIONAL ERROR ESTIMATE OF THE NAVIGATOR ORBIT | CODE TABLE 25097 | 0 | 0 | 4 |
| 025100 | XBT/XCTD FALL RATE EQUATION COEFFICIENT A | NUMERIC | 5 | 0 | 20 |
| 025101 | XBT/XCTD FALL RATE EQUATION COEFFICIENT B | NUMERIC | 5 | -500000 | 21 |
| 025102 | NUMBER OF MISSING LINES EXCLUDING DATA GAPS | NUMERIC | 0 | 0 | 8 |
| 025103 | NUMBER OF DIRECTIONAL BINS | NUMERIC | 0 | 0 | 8 |
| 025104 | NUMBER OF WAVE-LENGTH BINS | NUMERIC | 0 | 0 | 8 |
| 025105 | FIRST DIRECTIONAL BIN | DEGREES | 3 | 0 | 19 |
| 025106 | DIRECTIONAL BIN STEP | DEGREES | 3 | 0 | 19 |
| 025107 | FIRST WAVE-LENGTH BIN | M | 3 | 0 | 29 |
| 025108 | LAST WAVE-LENGTH BIN | M | 3 | 0 | 29 |
| 025110 | IMAGE PROCESSING SUMMARY | FLAG TABLE 025110 | 0 | 0 | 10 |
| 025111 | NUMBER OF INPUT DATA GAPS | NUMERIC | 0 | 0 | 8 |
| 025120 | RA2-L2-PROCESSING FLAG | CODE TABLE 25120 | 0 | 0 | 2 |
| 025121 | RA2-L2-PROCESSING QUALITY | % | 0 | 0 | 7 |
| 025122 | HARDWARE CONFIGURATION FOR RF | CODE TABLE 25122 | 0 | 0 | 2 |
| 025123 | HARDWARE CONFIGURATION FOR HPA | CODE TABLE 25123 | 0 | 0 | 2 |
| 025124 | MWR L2 PROCESSING FLAG | CODE TABLE 25124 | 0 | 0 | 2 |
| 025125 | MWR L2-PROCESSING QUALITY | % | 0 | 0 | 7 |
| 025126 | MODEL DRY TROPOSPHERIC CORRECTION | M | 3 | -32768 | 16 |
| 025127 | INVERTED BAROMETER CORRECTION | M | 3 | -32768 | 16 |
| 025128 | MODEL WET TROPOSPHERIC CORRECTION | M | 3 | -32768 | 16 |
| 025129 | MWR DERIVED WET TROPOSPHERIC CORRECTION | M | 3 | -32768 | 16 |
| 025130 | RA2 IONOSPHERIC CORRECTION ON KU BAND | M | 3 | -32768 | 16 |
| 025131 | IONOSPHERIC CORRECTION FROM DORIS ON KU BAND | M | 3 | -32768 | 16 |
| 025132 | IONOSPHERIC CORRECTION FROM MODEL ON KU BAND | M | 3 | -32768 | 16 |
| 025133 | SEA STATE BIAS CORRECTION ON KU BAND | M | 3 | -32768 | 16 |
| 025134 | RA2 IONOSPHERIC CORRECTION ON S BAND | M | 3 | -32768 | 16 |
| 025135 | IONOSPHERIC CORRECTION FROM DORIS ON S BAND | M | 3 | -32768 | 16 |
| 025136 | IONOSPHERIC CORRECTION FROM MODEL ON S BAND | M | 3 | -32768 | 16 |
| 025137 | SEA STATE BIAS CORRECTION ON S BAND | M | 3 | -32768 | 16 |
| 025138 | AVERAGE SIGNAL TO NOISE RATION | NUMERIC | 0 | -2048 | 12 |
| 025140 | START CHANNEL | NUMERIC | 0 | 0 | 14 |
| 025141 | END CHANNEL | NUMERIC | 0 | 0 | 14 |
| 025142 | CHANNEL SCALE FACTOR | NUMERIC | 0 | 0 | 6 |
| 025150 | SATELLITE INTENSITY ANALYSIS METHOD OF TROPICAL CYCLONE | CODE TABLE 25150 | 0 | 0 | 4 |
| 026001 | PRINCIPAL TIME OF DAILY READING IN UTC OF MAXIMUM TEMPERATURE | HOUR | 1 | 0 | 12 |
| 026002 | PRINCIPAL TIME OF DAILY READING IN UTC OF MINIMUM TEMPERATURE | HOUR | 1 | 0 | 12 |
| 026003 | TIME DIFFERENCE | MINUTE | 0 | -1440 | 12 |
| 026010 | HOURS INCLUDED | FLAG TABLE 26010 | 0 | 0 | 26 |
| 026020 | DURATION OF PRECIPITATION | MINUTE | 0 | 0 | 11 |
| 027001 | LATITUDE (HIGH ACCURACY) | DEGREE | 5 | -9000000 | 25 |

| | | | | | |
|--------|--|------------------|---|-------------|----|
| 027002 | LATITUDE (COARSE ACCURACY) | DEGREE | 2 | -9000 | 15 |
| 027003 | ALTERNATE LATITUDE (COARSE ACCURACY) | DEGREE | 2 | -9000 | 15 |
| 027004 | ALTERNATE LATITUDE (HIGH ACCURACY) | DEGREE | 5 | -9000000 | 25 |
| 027020 | SATELLITE LOCATION COUNTER | NUMERIC | 0 | 0 | 16 |
| 027021 | SATELLITE SUBLOCATION DIMENSION | NUMERIC | 0 | 0 | 16 |
| 027031 | IN DIRECTION OF 0 DEGREES LONGITUDE, DISTANCE FROM THE EARTH'S C M | | 2 | -1073741824 | 31 |
| 027080 | VIEWING AZIMUTH ANGLE | DEGREE TRUE | 2 | 0 | 16 |
| 028001 | LONGITUDE (HIGH ACCURACY) | DEGREE | 5 | -18000000 | 26 |
| 028002 | LONGITUDE (COARSE ACCURACY) | DEGREE | 2 | -18000 | 16 |
| 028003 | ALTERNATE LONGITUDE (COARSE ACCURACY) | DEGREE | 2 | -18000 | 16 |
| 028004 | ALTERNATE LONGITUDE (HIGH ACCURACY) | DEGREE | 5 | -18000000 | 26 |
| 028031 | IN DIRECTION 90 DEGREES EAST, DISTANCE FROM THE EARTH'S CENTRE M | | 2 | -1073741824 | 31 |
| 029001 | PROJECTION TYPE | CODE TABLE 29001 | 0 | 0 | 3 |
| 029002 | CO-ORDINATE GRID TYPE | CODE TABLE 29002 | 0 | 0 | 3 |
| 030001 | PIXEL VALUE (4 BITS) | NUMERIC | 0 | 0 | 4 |
| 030002 | PIXEL VALUE (8 BITS) | NUMERIC | 0 | 0 | 8 |
| 030004 | PIXEL VALUE (16 BITS) | NUMERIC | 0 | 0 | 16 |
| 030021 | NUMBER OF PIXELS PER ROW | NUMERIC | 0 | 0 | 12 |
| 030022 | NUMBER OF PIXELS PER COLUMN | NUMERIC | 0 | 0 | 12 |
| 030031 | PICTURE TYPE | CODE TABLE 30031 | 0 | 0 | 4 |
| 030032 | COMBINATION WITH OTHER DATA | FLAG TABLE 30032 | 0 | 0 | 16 |
| 031000 | SHORT DELAYED DESCRIPTOR REPLICATION FACTOR | NUMERIC | 0 | 0 | 1 |
| 031001 | DELAYED DESCRIPTOR REPLICATION FACTOR | NUMERIC | 0 | 0 | 8 |
| 031002 | EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR | NUMERIC | 0 | 0 | 16 |
| 031011 | DELAYED DESCRIPTOR AND DATA REPETITION FACTOR | NUMERIC | 0 | 0 | 8 |
| 031012 | EXTENDED DELAYED DESCRIPTOR AND DATA REPETITION FACTOR | NUMERIC | 0 | 0 | 16 |
| 031021 | ASSOCIATED FIELD SIGNIFICANCE | CODE TABLE 31021 | 0 | 0 | 6 |
| 031031 | DATA PRESENT INDICATOR | FLAG TABLE 31031 | 0 | 0 | 1 |
| 033002 | QUALITY INFORMATION | CODE TABLE 33002 | 0 | 0 | 2 |
| 033003 | QUALITY INFORMATION | CODE TABLE 33003 | 0 | 0 | 3 |
| 033005 | QUALITY INFORMATION (AWS DATA) | FLAG TABLE 33005 | 0 | 0 | 30 |
| 033006 | INTERNAL MEASUREMENT STATUS INFORMATION (AWS) | CODE TABLE 33006 | 0 | 0 | 3 |
| 033007 | PER CENT CONFIDENCE | % | 0 | 0 | 7 |
| 033015 | DATA QUALITY CHECK INDICATOR | CODE TABLE 33015 | 0 | 0 | 6 |
| 033020 | QUALITY CONTROL INDICATION OF FOLLOWING VALUE | CODE TABLE 33020 | 0 | 0 | 3 |
| 033021 | QUALITY OF FOLLOWING VALUE | CODE TABLE 33021 | 0 | 0 | 2 |
| 033022 | QUALITY OF BUOY SATELLITE TRANSMISSION | CODE TABLE 33022 | 0 | 0 | 2 |
| 033023 | QUALITY OF BUOY LOCATION | CODE TABLE 33023 | 0 | 0 | 2 |
| 033024 | STATION ELEVATION QUALITY MARK (FOR MOBILE STATIONS) | CODE TABLE 33024 | 0 | 0 | 4 |
| 033025 | ACARS INTERPOLATED VALUES | CODE TABLE 33025 | 0 | 0 | 3 |
| 033026 | MOISTURE QUALITY | CODE TABLE 33026 | 0 | 0 | 6 |
| 033027 | LOCATION QUALITY CLASS (RANGE OF RADIUS OF 66 % CONFIDENCE) | CODE TABLE 33027 | 0 | 0 | 3 |
| 033030 | SCAN LINE STATUS FLAGS FOR ATOVS | FLAG TABLE 33030 | 0 | 0 | 24 |
| 033031 | SCAN LINE QUALITY FLAGS FOR ATOVS | FLAG TABLE 33031 | 0 | 0 | 24 |
| 033032 | CHANNEL QUALITY FLAGS FOR ATOVS | FLAG TABLE 33032 | 0 | 0 | 24 |
| 033033 | FIELD OF VIEW QUALITY FLAGS FOR ATOVS | FLAG TABLE 33033 | 0 | 0 | 24 |
| 033035 | MANUAL/AUTOMATIC QUALITY CONTROL | CODE TABLE 33035 | 0 | 0 | 4 |
| 033036 | NOMINAL CONFIDENCE THRESHOLD | % | 0 | 0 | 7 |
| 033037 | WIND CORRELATION ERROR | FLAG TABLE 33037 | 0 | 0 | 20 |
| 033038 | QUALITY FLAGS FOR GROUND-BASED GNSS DATA | FLAG TABLE 33038 | 0 | 0 | 10 |
| 033039 | QUALITY FLAGS FOR RADIO OCCULTATION DATA | FLAG TABLE 33039 | 0 | 0 | 16 |
| 033040 | CONFIDENCE INTERVAL | % | 0 | 0 | 7 |
| 033041 | ATTRIBUTE OF FOLLOWING VALUE | CODE TABLE 33041 | 0 | 0 | 2 |
| 033042 | TYPE OF LIMIT REPRESENTED BY FOLLOWING VALUE | CODE TABLE 33042 | 0 | 0 | 3 |
| 033043 | AST CONFIDENCE | FLAG TABLE 33043 | 0 | 0 | 8 |
| 033044 | ASAR QUALITY INFORMATION | FLAG TABLE 33044 | 0 | 0 | 15 |
| 033045 | PROBABILITY OF FOLLOWING EVENT | % | 0 | 0 | 7 |
| 033046 | CONDITIONAL PROBABILITY OF FOLLOWING EVENT WITH RESPECT TO SPECI | % | 0 | 0 | 7 |
| 033047 | MEASUREMENT CONFIDENCE DATA | FLAG TABLE 33047 | 0 | 0 | 31 |
| 033048 | CONFIDENCE MEASURE OF SAR INVERSION | CODE TABLE 33048 | 0 | 0 | 2 |
| 033049 | CONFIDENCE MEASURE OF WIND RETRIEVAL | CODE TABLE 33049 | 0 | 0 | 2 |
| 033050 | GLOBAL GTSPP QUALITY FLAG | CODE TABLE 33050 | 0 | 0 | 4 |
| 033052 | S BAND OCEAN RETRACKING QUALITY | FLAG TABLE 33052 | 0 | 0 | 21 |
| 033053 | KU BAND OCEAN RETRACKING QUALITY | FLAG TABLE 33053 | 0 | 0 | 21 |
| 033060 | GQISFLAGQUAL-INDIVIDUAL IASI-SYSTEM QUALITY FLAG | CODE TABLE 33060 | 0 | 0 | 2 |
| 033061 | GQISQUALINDEX - INDICATOR FOR INSTRUMENT NOISE PERFORMANCE | % | 0 | 0 | 7 |
| 033062 | GQISQUALINDEXLOC - INDICATOR FOR GEOMETRIC QUALITY INDEX | % | 0 | 0 | 7 |
| 033063 | GQISQUALINDEXRAD - INDICATOR FOR INSTRUMENT NOISE PERFORMANCE | % | 0 | 0 | 7 |
| 033064 | GQISQUALINDEXSPECT - INDICATOR FOR INSTRUMENT NOISE PERFORMANCE | % | 0 | 0 | 7 |
| 033065 | GQISSYSTEMSONDQUAL - OUTPUT OF SYSTEM TEC QUALITY FUNCTION | NUMERIC | 0 | 0 | 24 |
| 033066 | SBUV TOTAL OZONE QUALITY | CODE TABLE 33066 | 0 | 0 | 4 |
| 033067 | SBUV PROFILE OZONE QUALITY | CODE TABLE 33067 | 0 | 0 | 4 |
| 035000 | FM AND REGIONAL CODE NUMBER | CODE TABLE 35000 | 0 | 0 | 10 |
| 035001 | TIME-FRAME FOR MONITORING | CODE TABLE 35001 | 0 | 0 | 3 |
| 035011 | NUMBER OF REPORTS ACTUALLY RECEIVED | NUMERIC | 0 | 0 | 14 |
| 035021 | BULLETIN BEING MONITORED (TTAAII) | CCITTIA5 | 0 | 0 | 48 |
| 035022 | BULLETIN BEING MONITORED (YGGGG) | CCITTIA5 | 0 | 0 | 48 |
| 035023 | BULLETIN BEING MONITORED (CCCC) | CCITTIA5 | 0 | 0 | 32 |
| 035024 | BULLETIN BEING MONITORED (BBB) | CCITTIA5 | 0 | 0 | 24 |
| 035030 | DISCREPANCIES IN THE AVAILABILITY OF EXPECTED DATA | CODE TABLE 35030 | 0 | 0 | 4 |
| 035031 | QUALIFIER ON MONITORING RESULTS | CODE TABLE 35031 | 0 | 0 | 7 |
| 035032 | CAUSE OF MISSING DATA | CODE TABLE 35032 | 0 | 0 | 4 |
| 035033 | OBSERVATION AND COLLECTION DEFICIENCIES | CODE TABLE 35033 | 0 | 0 | 7 |
| 035034 | STATISTICAL TRENDS FOR AVAILABILITY OF DATA (DURING THE SURVEY P | CODE TABLE 35034 | 0 | 0 | 3 |
| 035035 | REASON FOR TERMINATION | CODE TABLE 35035 | 0 | 0 | 5 |
| 040001 | SURFACE SOIL MOISTURE (MS) | % | 1 | 0 | 10 |
| 040002 | ESTIMATED ERROR IN SURFACE SOIL MOISTURE | % | 1 | 0 | 10 |
| 040003 | MEAN SURFACE SOIL MOISTURE | NUMERIC | 3 | 0 | 10 |
| 040004 | RAIN FALL DETECTION | NUMERIC | 3 | 0 | 10 |
| 040005 | SOIL MOISTURE CORRECTION FLAG | FLAG TABLE 40005 | 0 | 0 | 8 |
| 040006 | SOIL MOISTURE PROCESSING FLAG | FLAG TABLE 40006 | 0 | 0 | 16 |
| 040007 | SOIL MOISTURE QUALITY | % | 1 | 0 | 10 |
| 040008 | FROZEN LAND SURFACE FRACTION | % | 1 | 0 | 10 |



| | | | |
|--|---|---|------|
| 040009 INUNDATION AND WETLAND FRACTION | % | 1 | 0 10 |
| 040010 TOPOGRAPHIC COMPLEXITY | % | 1 | 0 10 |

2.3 Bufr Table C - Data description operators

| Table reference F X | Operand | Operator name | Operation definition |
|------------------------|---------|--|--|
| 2 01 | Y | Change data width | Add (Y-128) bits to the data width given for each data element in Table B, other than CCITT IA5 (character) data, code or flag tables |
| 2 02 | Y | Change scale | Multiply scale given for each non- code data element in Table B by $10^{(Y-128)}$ |
| 2 03 | Y | Change reference value | Subsequent element descriptors define new reference values for corresponding Table B entries. Each new reference value is represented by Y bits in Data section. Definition of new reference values is concluded by coding this operator with Y=255. Negative reference values shall be represented by positive integer with left-most bit (bit 1) set to 1. |
| 2 04 | Y | Add associated field | Precede each data element with Y bits of information. This operation associates a data field (e.g. quality control information) of Y bits with each data element. |
| 2 05 | Y | Signify character | Y characters (CCITT IA5) are inserted as a data field of Yx8 bits in length |
| 2 06 | Y | Signify data width for the immediately following local descriptors | Y bits of data are described by the immediately following descriptors |
| 2 07 | Y | Increase scale, reference value and data width | For Table B elements that are not CCITTIA5 data, code or flag tables: 1) Add Y bits to the existing scale 2) multiply the existing reference value by 10^Y 3) Calculate $((10*Y)+2)/3$, disregard any fractional remainder and add the result to the existing data width |



| | | | |
|------|-----|---|---|
| 2 08 | Y | Change width of CCITTIA5 field | Y characters from CCITTIA5 (representing Y*8 bits in length) replace the specified data width given for each CCITTIA5 element in table B. Note that maximum value for Y is 255. |
| 2 09 | Y | IEEE floating point representation | For elements in Table B other than CCITTIA5, Code Tables, Flag Tables and delayed replication factors, this operator shall indicate that values are represented in YYY bit IEEE floating point, where YYY can be set to 032 (single precision) or 064 (double precision). This Operator shall override the scaling, reference value and data width from Table B. An operand of YYY=000 shall reinstate the table B scaling, reference value and data width. |
| 2 21 | Y | Data not present | Data values present in Section 4 corresponding to the following Y descriptors shall be limited to data from Class 1-9, Class 31, and data needed for replication expansion. |
| 2 41 | 000 | Define event | This operator denotes the beginning of the definition of an event |
| 2 41 | 255 | Cancel define event | This operator denotes the conclusion of the event definition that was begun via the previous 241000 operator |
| 2 42 | 000 | Define conditioning event | This operator denotes the beginning of the definition of a conditioning event |
| 2 42 | 255 | Cancel define conditioning event | This operator denotes the conclusion of the conditioning event definition that was begun via previous 242000 operator |
| 2 43 | 000 | Categorical forecast values follow | The values which follow are categorical forecast values |
| 2 43 | 255 | Cancel categorical forecast values follow | This operator denotes the conclusion of the definition of categorical forecast values that was begun via the previous 243000 operator |

2.4 Bufr Code and Flag Tables

```
001003 0008 0000 01 ATARCTICA
              0001 01 REGION I
              0002 01 REGION II
              0003 01 REGION III
              0004 01 REGION IV
              0005 01 REGION V
              0006 01 REGION VI
              0007 01 MISSING VALUE
001007 0027 0001 01 ERS1
              0002 01 ERS2
              0020 01 SPOT1
              0021 01 SPOT2
              0050 01 METEOSAT 3
              0051 01 METEOSAT 4
              0150 01 GMS 3
              0151 01 GMS 4
              0200 01 NOAA 8
              0201 01 NOAA 9
              0202 01 NOAA 10
              0203 01 NOAA 11
              0220 01 LANDSAT 5
              0221 01 LANDSAT 6
              0240 01 DMSP 7
              0241 01 DMSP 8
              0242 01 DMSP 9
              0243 01 DMSP 10
              0244 01 DMSP 11
              0250 01 GOES 6
              0251 01 GOES 7
              0252 01 GOES 8
              0253 01 GOES 9
              0254 01 GOES 10
              0255 01 GOES 11
              0256 01 GOES 12
              1023 01 MISSING VALUE
001031 0008 0000 01 RESERVED
              0007 01 US WEATHER SERVICE-NMC
              0034 01 JAPAN METEOROLOGICAL AGENCY(TOKYO)
              0046 01 BRAZILIAN SPACE AGENCY-INPE
              0052 01 NATIONAL HURRICANE CENTRE,MIAMI,FL,USA-RSMC
              0057 01 US AIR FORCE - AFGWC
              0058 01 US NAVY - FNOC
              0059 01 NOAA FORECAST SYSTEMS LABORATORY,BOULDER,CO,USA
              0074 01 UK METEOROLOGICAL OFFICE,BRACKNELL
              0098 01 ECMWF
              0255 01 MISSING VALUE
001032 0041 0001 01 PREPROCESSING CONSISTENCY CHECK
              0010 01 BIAS CORRECTION
              0020 01 BLACK LIST
              0030 01 OI MASS AND WIND ANALYSIS, REPORT STATUS
              0031 01 OI HUMIDITY ANALYSIS, REPORT STATUS
              0032 01 OI ANALYSIS VARIABLES
              0033 01 OI ANALYSIS, FIRST GUESS Q/C
              0034 01 OI ANALYSIS, FINAL ANALYSIS Q/C
              0035 01 OI ANALYSIS, EVENT FLAGS
              0040 01 DYNAMIC INITIALISATION SCHEME
              0041 01 NORMAL MODE INITIALISATION SCHEME
              0050 01 SURFACE ANALYSIS, REPORT STATUS
              0051 01 SURFACE ANALYSIS VARIABLES
              0052 01 SURFACE ANALYSIS Q/C
              0053 01 SURFACE ANALYSIS, EVENT FLAGS
              0060 01 3D VAR REPORT STATUS
              0061 01 3D VAR ANALYSIS VARIABLES
              0062 01 3D VAR Q/C
              0063 01 3D VAR EVENT FLAGS
              0080 01 PRESAT FIRST GUESS
              0081 01 PRESAT ERROR STANDARD DEVIATIONS
              0082 01 PRESAT BIAS ESTIMATES
              0083 01 PRESAT BRIGHTNESS TEMPERATURE QUALITY FLAGS
              0084 01 PRESAT SAMARY FLAGS
              0090 01 FIRST GUESS (6 HOUR FORECAST)
              0091 01 FIRST GUESS (FGAT INTERPOLATED)
              0100 01 PRESCAT AMBIGUITY REMOVAL
              0110 01 WAM FIRST GUESS
              0111 01 WAM ANALYSIS
              0112 01 WAM FORECAST
              0113 01 WAM Q/C
              0201 01 COLLOCATION WITH SURFACE DATA
              0202 01 COLLOCATION WITH TEMP/PILOT DATA
              0203 01 COLLOCATION WITH AIREP DATA
              0204 01 COLLOCATION WITH SATOB DATA
              0205 01 COLLOCATION WITH TOVS DATA
              0206 01 COLLOCATION WITH ERS1 SCATTEROMETER DATA
              0207 01 COLLOCATION WITH ERS1 ALTIMETER DATA
              0220 01 ERS1 SCATTEROMETER COLLOCATION BLACK LIST
              0230 01 GAUSS ERROR
              0231 01 GROSS ERROR
```



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001090 0005 0000 01 LAF (LAGGED-AVERAGE FORECASTING)
          0001 01 BREEDING
          0002 01 SINGULAR VECTOR
          0003 01 MULTIPLE ANALYSIS CYCLE
          0255 01 MISSING VALUE
001092 0005 0000 01 UNPERTURBED HIGH-RESOLUTION CONTROL FORECAST
          0001 01 UNPERTURBED LOW-RESOLUTION CONTROL FORECAST
          0002 01 NEGATIVELY PERTURBED FORECAST
          0003 01 POSITIVELY PERTURBED FORECAST
          0255 01 MISSING VALUE
002001 0004 0000 01 AUTOMATIC STATION
          0001 01 MANNED STATION
          0002 01 HYBRID, BOTH MANNED AND AUTOMATIC
          0003 01 MISSING VALUE
002002 0004 0000 01 MEASURED IN M S-1 UNLESS OTHERWISE INDICATED
          0001 01 CERTIFIED INSTRUMENTS
          0002 01 ORIGINALLY MEASURED IN KNOTS
          0003 01 ORIGINALLY MEASURED IN KM/H
002003 0012 0000 01 PRESSURE INSTRUMENT ASSOCIATED WITH WIND-MEASURING EQUIPMENT
          0001 01 OPTICAL THEODOLITE
          0002 01 RADIO THEODOLITE
          0003 01 RADAR
          0004 01 VLF-OMEGA
          0005 01 LORAN C
          0006 01 WIND PROFILER
          0007 01 SATELLITE NAVIGATION
          0008 01 RADIO-ACOUSTIC SOUNDING SYSTEM (RASS)
          0009 01 SODAR
          0014 02 PRESSURE INSTRUMENT ASSOCIATED WITH WIND MEASUREMENT EQUIPME
                NT BUT PRESSURE ELEMENT FAILED DURING ASCENT
          0015 01 MISSING VALUE
002004 0011 0000 01 USA OPEN PAN EVAPORIMETER (WITHOUT COVER)
          0001 01 USA OPEN PAN EVAPORIMETER (MESH COVERED)
          0002 01 GGI-300 EVAPORIMETER (SUNKEN)
          0003 01 20 M**2 TANK
          0004 01 OTHERS
          0005 01 RICE
          0006 01 WHEAT
          0007 01 MAIZE
          0008 01 SORGHUM
          0009 01 OTHER CROPS
          0015 01 MISSING VALUE
002011 0054 0000 01 RESERVED
          0001 01 RESERVED
          0002 01 NO RADIOSONDE-PASSIVE TARGET (E.G. REFLECTOR)
          0003 01 NO RADIOSONDE-ACTIVE TARGET (E.G. TRANSPONDER)
          0004 01 NO RADIOSONDE-PASSIVE TEMPERATURE-HUMIDITY PROFILER
          0005 01 NO RADIOSONDE-ACTIVE TEMPERATURE-HUMIDITY PROFILER
          0006 01 NO RADIOSONDE-RADIO ACOUSTIC SOUNDER
          0009 01 NO RADIOSONDE-SYSTEM UNKNOWN OR NOT SPECIFIED
          0010 01 RS VIZ TYPE A (USA)
          0011 01 RS VIZ TYPE B (USA)
          0012 01 RS SDC (SPACE DATA CORPORATION-USA)
          0013 01 ASTOR (NO LONGER MADE-AUSTRALIA)
          0014 01 VIZ MARK I MICROSONDE (USA)
          0015 01 EEC COMPANY TYPE 23 (USA)
          0016 01 ELIN (AUSTRIA)
          0017 01 GRAW G. (GERMANY)
          0019 01 GRAW M60 (GERMANY)
          0020 01 INDIAN MET SERVICE MK3 (INDIA)
          0021 01 VIZ/JIN YANG MARK I MICROSONDE (SOUTH KOREA)
          0022 01 MEISEI RS2-80 (JAPAN)
          0023 01 MESURAL FMO 1950A (FRANCE)
          0024 01 MESURAL FMO 1945A (FRANCE)
          0025 01 MESURAL MH73A (FRANCE)
          0026 01 METEOLABOR BASORA (SWITZERLAND)
          0027 01 AVK-MRZ (USSR)
          0028 01 METEORIT MARZ2-1 (USSR)
          0029 01 METEIRIT MARZ2-2 (USSR)
          0030 01 OKI RS2-80 (JAPAN)
          0031 01 VIZ/VALCOM TYPE A PRESSURE-COMMUTATED (CANADA)
          0032 01 SHANGAI RADIO (CHINA)
          0033 01 UK MET OFFICE MK3 ( UK)
          0034 01 VINOHRADY (CZECHOSLOVAKIA)
          0035 01 VAISALA RS18 (FINLAND)
          0036 01 VAISALA RS21 (FINLAND)
          0037 01 VAISALA RS80 (FINLAND)
          0038 01 VIZ LOCATE (LORAN-C) (USA)
          0039 01 SPRENGER E076 (GERMANY)
          0040 01 SPRENGER E084 (GERMANY)
          0041 01 SPRENGER E085 (GERMANY)
          0042 01 SPRENGER E086 (GERMANY)
          0043 01 AIR IS -4A-1680 (UK)
          0044 01 AIR IS -4A-1680 X (UK)
          0045 01 RS MSS (USA)
          0046 01 AIR IS -4A-403 (USA)
          0047 01 MEISLEI RS2-91 (JAPAN)
          0048 01 VALCOM (CANADA)
          0049 01 VIZ MARK II (USA)
          0060 01 VAISALA RS80/MICROCORA (FINLAND)
          0061 01 VAISALA RS80/DIGCORA OR MARWIN (FINLAND)
          0062 01 VAISALA RS80/PCCORA (FINLAND)
          0063 01 VAISALA RS80/STAR (FINLAND)

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0064 03 ORBITAL, SCIENCE CORPORATION, SPACE DATA DIVISION, TRANSPONDER
      RADIOSONDE, TYPE 909-11-XX, WHERE XX CORRESPOND TO THE MODEL
      OF THE INSTRUMENT
0065 03 VIZ TRANSPONDER RADIOSONDE, MODEL NUMBER 1499-520 (USA)
0255 01 MISSING VALUE
002012 0001 0000 01 TO BE DEVELOPED
002013 0009 0000 01 NO CORRECTION
0001 01 CIMO SOLAR CORRECTED AND CIMO INFRARED CORRECTED
0002 01 CIMO SOLAR CORRECTED AND INFRARED CORRECTED
0003 01 CIMO SOLAR CORRECTED ONLY
0004 02 SOLAR AND INFRARED CORRECTED AUTOMATICALLY BY RADIOSONDE SY
      STEM
0005 01 SOLAR CORRECTED AUTOMATICALLY BY RADIOSONDE SYSTEM
0006 01 SOLAR AND INFRARED CORRECTED AS SPECIFIED BY COUNTRY
0007 01 SOLAR CORRECTED AS SPECIFIED BY COUNTRY
0015 01 MISSING VALUE
002014 0050 0000 01 NO WINDFINDING
0001 01 AUTOMATIC WITH AUXILIARY OPTICAL DIRECTION FINDING
0002 01 AUTOMATIC WITH AUXILIARY RADIO DIRECTION FINDING
0003 01 AUTOMATIC WITH AUXILIARY RANGING
0004 01 NOT USED
0005 01 AUTOMATIC WITH MULTIPLE VLF-OMEGA SIGNALS
0006 01 AUTOMATIC CROSS CHAIN LORAN-C
0007 01 AUTOMATIC WITH AUXILIARY WIND PROFILER
0008 01 AUTOMATIC SATELLITE NAVIGATION
0019 01 TRACKING TECHNIQUE NOT SPECIFIED
0020 01 VESSEL STOPPED
0021 01 VESSEL DIVERTED FROM ORIGINAL DESTINATION
0022 01 VESSEL'S ARRIVAL DELAYED
0023 01 CONTAINER DAMAGED
0024 01 POWER FAILURE TO CONTAINER
0029 01 OTHER PROBLEMS
0030 01 MAJOR POWER PROBLEMS
0031 01 UPS INOPERATIVE
0032 01 RECEIVER HARDWARE PROBLEMS
0033 01 RECEIVER SOFTWARE PROBLEMS
0034 01 PROCESSOR HARDWARE PROBLEMS
0035 01 PROCESSOR SOFTWARE PROBLEMS
0036 01 NAVAID SYSTEM DAMAGED
0037 01 SHORTAGE OF LIFTING GAS
0039 01 OTHER PROBLEMS
0040 01 MECHANICAL DEFECT
0041 01 MATERIAL DEFECT (HAND LAUNCHER)
0042 01 POWER FAILURE
0043 01 CONTROL FAILURE
0044 01 PNEUMATIC/HYDRAULIC FAILURE
0045 01 OTHER PROBLEMS
0046 01 COMPRESSOR PROBLEMS
0047 01 BALLOON PROBLEMS
0048 01 BALLOON RELEASE PROBLEMS
0049 01 LAUNCHER DAMAGED
0050 01 R/S RECEIVER ANTENNA DEFECT
0051 01 NAVAID ANTENNA DEFECT
0052 01 R/S RECEIVER CABLING (ANTENNA DEFECT)
0053 01 NAVAID ANTENNA CABLING DEFECT
0059 01 OTHER PROBLEMS
0060 01 ASAP COMMUNICATIONS DEFECT
0061 01 COMMUNICATIONS FACILITY REJECTED DATA
0062 01 NO POWER AT TRANSMITTING ANTENNA
0063 01 ANTENNA CABLE BROKEN
0064 01 ANTENNA CABLE DEFECT
0065 01 MESSAGE TRANSMITTED POWER BELOW NORMAL
0069 01 OTHER PROBLEMS
0070 01 ALL SYSTEMS IN NORMAL OPERATION
0099 01 STATUS OF SYSTEM AND ITS COMPONENTS NOT SPECIFIED
0127 01 MISSING VALUE
002015 0006 0001 01 PRESSURE ONLY RADIOSONDE
0002 01 PRESSURE ONLY RADIOSONDE PLUS TRANSPONDER
0003 01 PRESSURE ONLY RADIOSONDE PLUS RADAR REFLECTOR
0004 01 NO PRESSURE RADIOSONDE PLUS TRANSPONDER
0005 01 NO PRESSURE RADIOSONDE PLUS RADAR REFLECTOR
0015 01 MISSING VALUE
002016 0004 0001 01 TRAIN REGULATOR
0002 01 LIGHT UNIT
0003 01 PARACHUTE
0004 01 ROOFTOP RELEASE
002020 0024 0000 01 NIMBUS
0001 VTPR
0002 Tiros 1 (Tiros, NOAA-6 to NOAA-13)
0003 Tiros 2 (NOAA-14 onwards)
0010 EOS
0031 DMSP
0061 EUMETSAT Polar System (EPS)
0091 ERS
0121 ADEOS
0241 GOES
0261 JASON
0271 GMS
0272 MTSAT
0301 INSAT
0331 METEOSAT Operational Programme (MOP)
0332 METEOSAT Transitional Programme (MTP)
0333 METEOSAT Second Generation Programme (MSG)
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0351 GOMS
0380 FY-1
0381 FY-2
0401 GPS
0402 GLONASS
0403 GALILEO
0511 MISSING VALUE
002021 0008 0001 01 HIGH RESOLUTION INFRA RED SOUNDER (HIRS)
0002 01 MICROWAVE SOUNDING UNIT (MSU )
0003 01 STRATOSPHERIC SOUNDING UNIT (SSU)
0004 01 AMI WIND MODE
0005 01 AMI WAVE MODE
0006 01 AMI IMAGE MODE
0007 01 RADAR ALTIMETER
0008 01 ATSR
002022 0005 0001 01 PROCESSING TECHNIQUE NOT DEFINED
0002 01 AUTOMATED STATISTICAL REGRESSION
0003 01 CLEAR PATH
0004 01 PARTLY CLOUDY PATH
0005 01 CLOUDY PATH
002023 0008 0000 02 WIND DERIVED FROM CLOUD MOTION OBSERVED IN THE WATER VAPOUR
CHANNEL
0001 02 WIND DERIVED FROM CLOUD MOTION OBSERVED IN THE INFRARED
CHANNEL
0002 01 WIND DERIVED FROM CLOUD MOTION OBSERVED IN THE VISIBLE CHANNEL
0003 02 WIND DERIVED FROM CLOUD MOTION OBSERVED IN WATER VAPOUR CHANNEL
(CLOUD OR CLEAR AIR NOT SPECIFIED)
0004 02 WIND DERIVED FROM MOTION OBSERVED IN COMBINATION OF SPECTRAL
CHANNELS
0005 02 WIND DERIVED FROM MOTION OBSERVED IN THE WATER VAPOUR CHANNEL
IN CLEAR AIR
0006 01 WIND DERIVED FROM MOTION OBSERVED IN THE OZONE CHANNEL
0007 01 WIND DERIVED FROM MOTION OBSERVED IN WATER VAPOUR CHANNEL
(CLOUD OR CLEAR AIR NOT SPECIFIED)
0008 01 WIND DERIVED FROM ALTIMETER
0009 01 WIND DERIVED FROM RADIOMETER
0013 01 ROOT MEAN SQUARE
0015 01 MISSING VALUE
002024 0003 0001 01 TABLE WITH FULL RANGE OF HUMIDITY VARIATION IN LAYER
0002 01 REGRESSION TECHNIQUE ON 2 HUMIDITY VALUES IN LAYER
0015 01 MISSING VALUE
002025 0016 0001 01 RESERVED
0002 01 HIRS
0003 01 MSU
0006 01 HIRS
0007 01 MSU
0010 01 HIRS(1, 2, 3, 8,9, 16, 17)
0011 01 HIRS(1, 2, 3, 9, 17)
0012 01 MSU
0015 01 HIRS
0016 01 HIRS
0017 01 MSU
0018 01 SKINTK(OCEAN ONLY)
0021 01 HIRS
0022 01 SSU
0023 01 MSU (3 ,4)
0025 01 MISSING
002030 0007 0001 01 ADCP (ACOUSTIC DOPPLER CURRENT PROFILER)
0002 01 GEK (GEOMAGNETIC ELECTRO KINETOGRAPH)
0003 01 SHIPS'S SET AND DRIFT DETERMINED BY FIXES 3-6 HOURS APART
0004 02 SHIPS'S SET AND DRIFT DETERMINED BY MORE THAN 6 HOURS
BUT LESS THAN 12 HOURS APART
0005 01 DRIFT OF BUOY
0006 01 ADCP (ACOUSTIC DOPPLER CURRENT PROFILER)
0007 01 MISSIN VALUE
002031 0021 0000 01 RESERVED
0001 01 INSTANTANEOUS
0002 01 AVERAGED OVER 3 MINUTES OR LESS
0003 01 AVERAGED OVER MORE THAN 3 MINUTES, BUT 6 AT THE MOST
0004 01 AVERAGED OVER MORE THAN 6 MINUTES, BUT 12 AT THE MOST
0005 01 INSTANTANEOUS
0006 01 AVERAGED OVER 3 MINUTES OR LESS
0007 01 AVERAGED OVER MORE THAN 3 MINUTES, BUT 6 AT THE MOST
0008 01 AVERAGED OVER MORE THAN 6 MINUTES, BUT 12 AT THE MOST
0009 01 VECTOR OR DOPPLER CURRENT PROFILLING METHOD NOT USED
0010 01 RESERVED
0011 01 1 HOUR OR LESS
0012 01 MORE THAN 1 HOUR BUT 2 AT THE MOST
0013 01 MORE THAN 2 HOUR BUT 4 AT THE MOST
0014 01 MORE THAN 4 HOUR BUT 8 AT THE MOST
0015 01 MORE THAN 8 HOUR BUT 12 AT THE MOST
0016 01 MORE THAN 12 HOUR BUT 18 AT THE MOST
0017 01 MORE THAN 18 HOUR BUT 24 AT THE MOST
0018 01 RESERVED
0019 01 DRIFT METHOD NOT USED
0031 01 MISSING
002032 0004 0000 02 VALUES AT SELECTED DEPTHS (DATA POINTS FIXED BY THE INSTRUME
NT OR SELECTED BY ANY OTHER METHOD)
0001 02 VALUES AT SIGNIFICANT DEPTHS (DATA POINTS TAKEN FROM TRACES
AT SIGNIFICANT DEPTHS)
0002 01 RESERVED
0003 01 MISSING VALUE
002033 0005 0000 01 NO SALINITY MEASURED

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0001 01 IN SITU SENSOR, ACCURACY BETTER THAN 0.02 %
0002 01 IN SITU SENSOR, ACCURACY LESS THAN 0.02 %
0003 01 SAMPLE ANALYSIS
0007 01 MISSING VALUE
002034 0007 0000 01 UNSPECIFIED DROGUE
0001 01 HOLEY SOCK
0002 01 TRISTAR
0003 01 WINDOW SHADE
0004 01 PARACHUTE
0005 01 NON-LAGRANGIAN SEA ANCHOR
0031 01 MISSING VALUE
002036 0004 0000 01 DRIFTING BUOY
0001 01 FIXED BUOY
0002 01 RESERVED
0003 01 MISSING VALUE
002037 0007 0000 01 REASERVED
0001 01 MANUAL READING FROM VERTICAL TIDE STAFF
0002 01 MANUAL READING FROM SINGLE AUTOMATIC RECORDER AT STATION
0003 01 MANUAL READING FROM MULTIPLE AUTOMATIC RECORDERS AT STATION
0004 02 AUTOMATIC READING FROM SINGLE AUTOMATIC RECORDER AT STATION
WITHOUT LEVEL REFERENCE CHECK
0005 02 AUTOMATIC READING FROM SINGLE AUTOMATIC RECORDER AT STATION
WITH LEVEL REFERENCE CHECK,OR MULTIPLE AUTOMATIC RECORDERS
0007 01 MISSING
002038 0012 0000 01 SHIP INTAKE
0001 01 BUCKET
0002 01 HULL CONTACT SENSOR
0003 01 REVERSING TERMOMETER
0004 01 STD/CTD SENSOR
0005 01 MECHANICAL BT
0006 01 EXPANDABLE BT
0007 01 DIGITAL BT
0008 01 THERMISTOR CHAIN
0009 01 INFRARED SCANNER
0010 01 MICROWAVE SCANNER
0015 01 MISSING VALUE
002039 0005 0000 01 MEASURED WET-BULB TEMPERATURE
0001 01 ICED BULB MEASURED WET-BULB TEMPERATURE
0002 01 COMPUTED WET-BULB TEMPERATURE
0003 01 ICED BULB COMPUTED WET-BULB TEMPERATURE
0007 01 MISSING VALUE
002041 0005 0000 01 INFORMATION BASED ON MANUAL ANALYSIS
0001 01 INFORMATION BASED ON COMPUTER ANALYSIS
0002 01 INFORMATION BASED ON DATA ASSIMILATION
0003 02 INFORMATION BASED ON COMPUTER ANALYSIS OR DATA ASSIMILATIO
N MANUALLY MODIFIED
0063 01 MISSING VALUE
002040 0008 0000 01 SHIPS MOTION REMOVED BY AVARAGING
0001 01 SHIPS MOTION REMOVED BY MOTION COMPENSATION
0002 01 SHIPS MOTION NOT REMOVED
0003 01 SHIPS MOTION REMOVED BY AVERAGING
0004 01 SHIPS MOTION REMOVED BY MOTION COMPENSATION
0005 01 SHIPS MOTION NOT REMOVED
0006 01 DOPPLER CURRENT PROFILING METHOD NOT USED
0015 01 MISSING VALUE
002041 0006 0000 01 INFORMATION BASED ON MANUAL ANALYSIS
0001 01 INFORMATION BASED ON COMPUTER ANALYSIS
0002 01 INFORMATION BASED ON DATA ASSIMILATION
0003 02 INFORMATION BASED ON COMPUTER ANALYSIS OR
DATA ASSIMILATION MANUALLY MODIFIED
0010 01 INFORMATION BASED ON THE NUMERICAL WEATHER PREDICTION
0063 01 MISSING VALUE
002044 0006 0000 01 RESERVED
0001 01 LONGUET-HIGGINS (1964)
0002 01 LONGUET-HIGGINS (F3 METHOS)
0003 01 MAXIMUM LIKELIHOOD METHOD
0004 01 MAXIMUM ENTROPY METHOD
0015 01 MISSING VALUE
002045 0005 0000 01 SEA STATION
0001 01 AUTOMATIC DATA BUOY
0002 01 AIRCRAFT
0003 01 SATELLITE
0015 01 MISSING VALUE
002046 0004 0000 01 RESERVED
0001 01 HEAVE SENSOR
0002 01 SLOPE SENSOR
0015 01 MISSING VALUE
002048 0012 0000 01 HIRS
0001 01 MSU
0002 01 SSU
0003 01 AMSU-A
0004 01 AMSU-B
0005 01 AVHRR
0006 01 SSMI
0007 01 NSCAT
0008 01 SEA WINDS
0009 01 POSEIDON ALTIMETER
0010 01 JMR (JASON MICROWAVE RADIOMETER)
0015 01 MISSING VALUE
002049 0004 0001 01 PROCESSING TECHNIQUE NOT DEFINED
0002 01 SIMULTANIOUS PHISICAL RETRIEVAL
0003 01 CLEAR SOUNDING
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0004 01 CLOUDY COUNTING
002050 0019 0001 01 CHANNEL 1 14.71 MICROMETERS
0002 01 CHANNEL 2 14.37 MICROMETERS
0003 01 CHANNEL 3 14.06 MICROMETERS
0004 01 CHANNEL 4 13.64 MICROMETERS
0005 01 CHANNEL 5 13.37 MICROMETERS
0006 01 CHANNEL 6 12.66 MICROMETERS
0007 01 CHANNEL 7 12.02 MICROMETERS
0008 01 CHANNEL 8 11.03 MICROMETERS
0009 01 CHANNEL 9 9.71 MICROMETERS
0010 01 CHANNEL 10 7.43 MICROMETERS
0011 01 CHANNEL 11 7.02 MICROMETERS
0012 01 CHANNEL 12 6.51 MICROMETERS
0013 01 CHANNEL 13 4.57 MICROMETERS
0014 01 CHANNEL 14 4.52 MICROMETERS
0015 01 CHANNEL 15 4.45 MICROMETERS
0016 01 CHANNEL 16 4.13 MICROMETERS
0017 01 CHANNEL 17 3.98 MICROMETERS
0018 01 CHANNEL 18 3.74 MICROMETERS
0019 01 CHANNEL 19 0.969 MICROMETERS
002051 0004 0001 01 MAXIMUM/MINIMUM THERMOMETERS
0002 01 AUTOMATED INSTRUMENT
0003 01 THERMOGRAPH
0015 01 MISSING VALUE
002052 0005 0001 01 CHANNEL 1 0.55-.75 MICROMETERS
0002 01 CHANNEL 2 3.9 MICROMETERS
0003 01 CHANNEL 3 6.7 MICROMETERS
0004 01 CHANNEL 4 10.7 MICROMETERS
0005 01 CHANNEL 5 12.0 MICROMETERS
002053 0005 0000 01 OBSERVED BRIGHTNESS TEMPERATURES
0001 01 BRIGHTNESS TEMPERATURE WITH BIAS CORRECTION APPLIED
0002 01 BRIGHTNESS TEMPERATURE CALCULATED FROM FIRST GUESS
0003 01 BRIGHTNESS TEMPERATURE CALCULATED FROM SOUNDING
0015 01 MISSING VALUE
002054 0006 0000 01 PARAMETER DERIVED USING OBSERVED SOUNDER BRIGHTNESS TEMPERATURES
0001 01 PARAMETER DERIVED USING OBSERVED IMAGER BRIGHTNESS TEMPERATURES
0002 01 PARAMETER DERIVED USING FIRST GUESS INFORMATION
0003 01 PARAMETER DERIVED USING NMC ANALYSIS INFORMATION
0004 01 PARAMETER DERIVED USING RADIOSONDE INFORMATION
0015 01 MISSING VALUE
002055 0010 0000 01 STATISTICS GENERATED COMPARING RETRIEVAL VERSUS RADIOSONDE
0001 01 STATISTICS GENERATED COMPARING RETRIEVAL VERSUS FIRST GUESS
0002 01 STATISTICS GENERATED COMPARING RADIOSONDE VERSUS FIRST GUESS
0003 01 STATISTICS GENERATED COMPARING OBSERVED VERSUS RETRIEVAL
0004 01 STATISTICS GENERATED COMPARING OBSERVED VERSUS FORST GUESS
0005 01 STATISTICS GENERATED COMPARING RADIOSONDE VERSUS IMAGER
0006 01 STATISTICS GENERATED COMPARING RADIOSONDE VERSUS SOUNDER
0007 01 STATISTICS GENERATED FOR RADIOSONDE
0008 01 STATISTICS GENERATED FOR FIRST GUESS
002056 0006 0000 01 SUMS OF DIFFERENCE
0001 01 SUMS OF SQUARED DIFFERENCES
0002 01 SAMPLE SIZE
0003 01 MINIMUM DIFFERENCE
0004 01 MAXIMUM DIFFERENCE
0015 01 MISSING VALUE
002057 0007 0000 01 NESTED GRID MODEL (NMG)
0001 01 AVIATION MODEL (AVN)
0002 01 MEDIUM RANGE FORECAST (MRF) MODEL
0003 01 GLOBAL DATA ASSIMILATION SYSTEM (GDAS) FORECAST MODEL
0004 01 PRIOR SOUNDINGS (WITHIN 3 HOURS OF CURRENT TIME)
0005 01 CLIMATOLOGY
002058 0005 0000 01 12 HOUR AND 18 HOUR
0001 01 18 HOUR AND 24 HOUR
0002 01 6 HOUR AND 12 HOUR
0003 01 GREATER THAN 24 HOUR
0015 01 MISSING VALUE
002059 0005 0000 01 NCEP NESTED GRID MODEL ANALYSIS
0001 01 NCEP AVIATION MODEL ANALYSIS
0002 01 NCEP MEDIUM RANGE FORECAST MODEL ANALYSIS
0003 01 NCEP GLOBAL DATA ASSIMILATION SYSTEM FORECAST MODEL ANALYSIS
0015 01 MISSING VALUE
002060 0007 0000 01 CURRENT SURFACE HOURLY REPORTS
0001 01 CURRENT SHIP REPORTS
0002 01 CURRENT BUOY REPORTS
0003 01 ONE HOUR OLD SURFACE HOURLY REPORTS
0004 01 ONE HOUR SHIP OLD REPORTS
0005 01 ONE HOUR BUOY OLD REPORTS
0015 01 MISSING VALUE
002061 0003 0000 01 INERTIAL NAVIGATOR SYSTEM
0001 01 OMEGA
0007 01 MISSING VALUE
002062 0007 0000 01 ASDAR
0001 01 ASDAR (ACARS ALSO AVAILABLE BUT NOT OPERATIVE)
0002 01 ASDAR (ACARS ALSO AVAILABLE AND OPERATIVE)
0003 01 ACARS
0004 01 ACARS (ASDAR ALSO AVAILABLE BUT NOT OPERATIVE)
0005 01 ACARS (ASDAR ALSO AVAILABLE AND OPERATIVE)
0015 01 MISSING VALUE
002064 0004 0000 01 GOOD
0001 01 BAD
0002 01 RESERVED
0003 01 MISSING VALUE
002066 0004 0000 01 TRS 2000

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0001 01 IMS 1500C
0062 01 OTHER
0063 01 MISSING VALUE
002070 0013 0000 01 ACTUAL LOCATION IN SECONDS
0001 01 ACTUAL LOCATION IN MINUTES
0002 01 ACTUAL LOCATION IN DEGREES
0003 01 ACTUAL LOCATION IN DECIDEGREES
0004 01 ACTUAL LOCATION OM CENTIDEGREES
0005 01 REFERENCED TO CHECKPOINT IN SECONDS
0006 01 REFERENCED TO CHECKPOINT IN MINUTES
0007 01 REFERENCED TO CHECKPOINT IN DEGREES
0008 01 REFERENCED TO CHECKPOINT IN DECIDEGREES
0009 01 REFERENCED TO CHECKPOINT IN CENTIDEGREES
0010 01 ACTUAL LOCATION IN TENTHS OF A MINUTE
0011 01 REFERENCED TO CHECKPOINT IN TENTHS OF A MINUTE
0015 01 MISSING VALUE
002080 0005 0000 01 KAYSAM
0001 01 TOTEX
0002 01 KKS
0062 01 OTHER
0063 01 MISSING VALUE
002081 0009 0000 01 GP26
0001 01 GP28
0002 01 GP30
0003 01 HM26
0004 01 HM28
0005 01 HM30
0006 01 SV16
0030 01 OTHER
0031 01 MISSING VALUE
002083 0006 0000 01 HIGH BAY
0001 01 LOW BAY
0002 01 BALLOON INFLATION LAUNCH SYSTEM (BILS)
0003 01 ROOF-TOP BILS
0014 01 OTHER
0015 01 MISSING VALUE
002084 0005 0000 01 HYDROGEN
0001 01 HELIUM
0002 01 NATURAL GAS
0014 01 OTHER
0015 01 MISSING VALUE
002095 0005 0000 01 CAPACITANCE ANEROID
0001 01 DERIVED FROM GPS
0002 01 RESISTIVE STRAIN GAUGE
0030 01 OTHER
0031 01 MISSING VALUE
002096 0005 0000 01 ROD THERMISTOR
0001 01 BEAD THERMISTOR
0002 01 CAPACITANCE BEAD
0030 01 OTHER
0031 01 MISSING VALUE
002097 0008 0000 01 VIZ MARK II CARBON HYGRISTOR
0001 01 VIZ B2 HYGRISTOR
0002 01 VAISALA A-HUMICAP
0003 01 VAISALA H-HUMICAP
0004 01 CAPACITANCE SENSOR
0005 01 VAISALA RS90
0030 01 OTHER
0031 01 MISSING VALUE
002101 0010 0000 01 CENTRE FRONT-FED PARABOLOID
0001 01 OFFSET FRONT-FED PARABOLOID
0002 01 CENTRE CASSEGRAIN PARABOLOID
0003 01 OFFSET CASSEGRAIN PARABOLOID
0004 01 PLANAR ARRAY
0005 01 COAXIAL-COLLINEAR ARRAY
0006 01 YAGI ELEMENTS ARRAY
0007 01 MICROSTRIP
0014 01 OTHER
0015 01 MISSING VALUE
002103 0002 0001 01 RADAR ANTENNA IS PROTECTED BY A RADOME
0002 01 MISSING VALUE
002104 0007 0000 01 HORIZONTAL POLARISATION
0001 01 VERTICAL POLARISATION
0002 01 RIGHT CIRCULAR POLARISATION
0003 01 LEFT CIRCULAR POLARISATION
0004 01 HORIZONTAL AND VERTICAL POLARISATION
0005 01 RIGHT AND LEFT CIRCULAR POLARISATION
0015 01 MISSING VALUE
002115 0007 0000 01 PDB
0001 01 RSOIS
0002 01 ASOS
0003 01 PSYCHROMETER
0004 01 F420
0030 01 OTHER
0031 01 MISSING VALUE
002119 0008 0000 01 INTERMEDIATE FREQUENCY CALIBRATION MODE (IFCAL)
0001 01 BUILT-IN TEST EQUIPMENT DIGITAL (BITE DGT)
0002 01 BUILT-IN TEST EQUIPMENT RADIO FREQUENCY (BITE RF)
0003 01 PRESET TRACKING (PSET TRK)
0004 01 PRESET LOOP OUT
0005 01 ACQUISITION
0006 01 TRACKING
0007 01 MISSING VALUE
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002131 0001 0001 01 STC OPERATIONAL
002143 0021 0000 01 RESERVED
0001 01 Brewer spectrophotometer
0002 01 Caver Teichert
0003 01 Dobson
0004 01 Dobson (Japan)
0005 01 Ehmet
0006 01 Fecker telescope
0007 01 Hoelper
0008 01 Jodmeter
0009 01 Filter Ozonometer M-83
0010 01 Mast
0011 01 Oxford
0012 01 Paetzold
0013 01 Regener
0014 01 Reserved for future use
0015 01 Vassy filter Ozonometer
0016 01 Carbon iodide
0017 01 Surface ozone bubler
0018 01 Filter Ozonometer M-124
0019 01 ECC sonde
0127 01 MISSING VALUE
002144 0008 0000 01 Direct Sun
0001 01 Direct Sun, attenuator #1
0002 01 Direct Sun, attenuator #2
0003 01 Focussed Moon
0004 01 Focussed Sun
0005 01 Focussed Sun corrected with adjacent sky measurements
0006 01 Zenith Sky
0015 01 MISSING VALUE
002216 0017 0001 01 CALIBRATION/MEASUREMENT PULSE FLAG (1)
0002 01 CALIBRATION/MEASUREMENT PULSE FLAG (2)
0003 01 OUTER ANTENNA BEAM
0004 01 SIGMA-0 CELL IS AFT OF SPACECRAFT
0005 01 CURRENT MODE (1)
0006 01 CURRENT MODE (2)
0007 01 EFFECTIVE GATE WIDTH - SLICE RESOLUTION (1)
0008 01 EFFECTIVE GATE WIDTH - SLICE RESOLUTION (2)
0009 01 EFFECTIVE GATE WIDTH - SLICE RESOLUTION (3)
0010 01 LOW RESOLUTION MODE - WHOLE PULSE DATA
0011 01 SCATTEROMETER ELECTRONIC SUBSYSTEM B
0012 01 ALTERNATE SPIN RATE - 19.8 RPM
0013 01 RECEIVER PROTECTION ON
0014 01 SLICES PER COMPOSITE FLAG(1)
0015 01 SLICES PER COMPOSITE FLAG(2)
0016 01 SLICES PER COMPOSITE FLAG(3)
0017 01 MISSING VALUE
002131 0002 0001 01 STC OPERATIONAL
0003 01 MISSING VALUE
002143 0021 0000 01 RESERVED
0001 01 BREWER SPECTROMETER
0002 01 CAVER TEICHERT
0003 01 DOBSON
0004 01 DOBSON (JAPAN)
0005 01 EHMET
0006 01 FECKER TELESCOPE
0007 01 HOELPER
0008 01 JODMETER
0009 01 FILTER OZONOMETER M-83
0010 01 MAST
0011 01 OXFORD
0012 01 PAETZOLD
0013 01 REGENER
0014 01 RESERVED
0015 01 VASSY FILTER OZONOMETER
0016 01 CARBON IODIDE
0017 01 SURFACE OZONE BULLER
0018 01 FILTER OZONOMETER M-124
0019 01 ECC SONDE
0127 01 MISSING VALUE
002144 0008 0000 01 DIRECT SUN, ATTENUATOR #0
0001 01 DIRECT SUN, ATTENUATOR #1
0002 01 DIRECT SUN, ATTENUATOR #2
0003 01 FOCUSSED MOON
0004 01 FOCUSSED SUN
0005 01 FOCUSSED SUN CORRECTED WITH ADJACENT SKY MEASUREMENTS
0006 01 ZENITH SKY
0015 01 MISSING VALUE
002145 0009 0000 01 WAVELENGTH AD ORDINARY SETTING
0001 01 WAVELENGTH BD ORDINARY SETTING
0002 01 WAVELENGTH CD ORDINARY SETTING
0003 01 WAVELENGTH CC' ORDINARY SETTING
0004 01 WAVELENGTH AD FOCUSING IMAGE
0005 01 WAVELENGTH BD FOCUSING IMAGE
0006 01 WAVELENGTH CD FOCUSING IMAGE
0007 01 WAVELENGTH CC' FOCUSING IMAGE
0015 01 MISSING VALUE
002146 0011 0000 01 ON DIRECT SUN
0001 01 ON DIRECT MOON
0002 01 ON BLUE ZENITH SKY
0003 01 ON ZENITH CLOUD (UNIFORM STRATIFIED LAYER OF SMALL OPACITY)
0004 01 ON ZENITH CLOUD (UNIFORM OR MODERATELY VARIABLE LAYER OF MEDIUM OPACITY)
0005 01 ON ZENITH CLOUD (UNIFORM OR MODERATELY VARIABLE LAYER OF LARGE OPACITY)

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0006 01 ON ZENITH CLOUD (HIGHLY VARIABLE OPACITY, WITH OR WITOUT PRECIPITATION)
0007 01 ON ZENITH CLOUD (FOG)
0008 01 ON ZENITH HAZE
0009 01 ON DIRECT SUN THROUGH THIN CLOUD, FOG OR HAZE
0015 01 MISSING VALUE
002148 0006 0000 01 RESERVED
0001 01 ARGOS
0002 01 GPS
0003 01 GOES DCP
0004 01 METEOSAT DCP
0031 01 MISSING VALUE
002149 0022 0000 01 Unspecified drifting buoy
0001 01 Standard Lagrangian drifter (Global Drifter Programme)
0002 01 Standard FGGE type drifting buoy
0003 01 Wind measuring FGGE type drifting buoy
0004 01 Ice float
0008 01 Unspecified sub-surface float
0009 01 SOFAR
0010 01 ALACE
0011 01 MARVOR
0012 01 RAFOS
0016 01 Unspecified moored buoy
0017 01 Nomad
0018 01 3-metre discus
0019 01 10-12-metre discus
0020 01 ODAS 30 series
0021 01 ATLAS (e.g. TAO area)
0022 01 TRITON buoy
0023 01 Reserved
0024 01 Omnidirectional waverider
0025 01 Directional waverider
0026 01 Sub-surface ARGO float
0063 01 MISSING VALUE
002150 0055 0000 01 RESERVED
0001 01 HIRS 1
0002 01 HIRS 2
0003 01 HIRS 3
0004 01 HIRS 4
0005 01 HIRS 5
0006 01 HIRS 6
0007 01 HIRS 7
0008 01 HIRS 8
0009 01 HIRS 9
0010 01 HIRS 10
0011 01 HIRS 11
0012 01 HIRS 12
0013 01 HIRS 13
0014 01 HIRS 14
0015 01 HIRS 15
0016 01 HIRS 16
0017 01 HIRS 17
0018 01 HIRS 18
0019 01 HIRS 19
0020 01 HIRS 20
0021 01 MSU 1
0022 01 MSU 2
0023 01 MSU 3
0024 01 MSU 4
0025 01 SSU 1
0026 01 SSU 2
0027 01 SSU 3
0028 01 AMSU-A 1
0029 01 AMSU-A 2
0030 01 AMSU-A 3
0031 01 AMSU-A 4
0032 01 AMSU-A 5
0033 01 AMSU-A 6
0034 01 AMSU-A 7
0035 01 AMSU-A 8
0036 01 AMSU-A 9
0037 01 AMSU-A 10
0038 01 AMSU-A 11
0039 01 AMSU-A 12
0040 01 AMSU-A 13
0041 01 AMSU-A 14
0042 01 AMSU-A 15
0043 01 AMSU-B 1
0044 01 AMSU-B 2
0045 01 AMSU-B 3
0046 01 AMSU-B 4
0047 01 AMSU-B 5
0048 01 AVHRR 1
0049 01 AVHRR 2
0050 01 AVHRR 3a
0051 01 AVHRR 3b
0052 01 AVHRR 4
0053 01 AVHRR 5
0063 01 MISSING VALUE
002151 0009 0000 01 HIRS
0001 01 MSU
0002 01 SSU
0003 01 AMSU-A1-1
0004 01 AMSU-A1-2
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0005 01 AMSU-A2
0006 01 AMSU-B
0007 01 AVHRR
2047 01 MISSING VALUE
002152 0011 0001 01 High-resolution infrared sounder (HIRS)
0002 01 Microwave sounding unit (MSU)
0003 01 Stratospheric sounding unit (SSU)
0004 01 AMI wind mode
0005 01 AMI wave mode
0006 01 AMI image mode
0007 01 RADAR altimeter
0008 01 ATSR
0009 01 Geostationary Imager
0010 01 Geostationary Sounder
0011 01 Geostationary Earth radiation (GERB)
002158 0008 0001 01 Mismatch in RED VEC HPA
0002 01 Mismatch in RED VEC RFSS
0003 01 PTR calibration band 320 MHz (Ku)
0004 01 PTR calibration band 80 MHz (Ku)
0005 01 PTR calibration band 20 MHz (Ku)
0006 01 PTR calibration band 160 MHz (S)
0007 01 Ku flight calibration parameters available
0008 01 S flight calibration parameters available
002159 0005 0001 01 Temperature inconsistency
0002 01 Data is missing
0003 01 Redundancy channel
0004 01 Power bus protection
0005 01 Overvoltage/Overload protection
002163 0015 0000 01 Auto editor
0001 01 IRW height assignment
0002 01 WV height assignment
0003 01 H2O intercept height assignment
0004 01 CO2 slicing height assignment
0005 01 Low pixel max gradient
0006 01 Higher pixel max gradient
0007 01 Primary height assignment
0008 01 Layer thickness assignment
0009 01 Cumulative contribution function -10 percent height
0010 01 Cumulative contribution function -50 percent height
0011 01 Cumulative contribution function -90 percent height
0012 02 Cumulative contribution function - height of
maximum gradient
0014 01 Composite height assignment
0015 01 MISSING VALUE
002164 0004 0000 01 LP - Norms least square minimum
0001 01 EN - Euclidean norm with radiance correlation
0002 01 CC - Cross correlation
0007 01 MISSING VALUE
002166 0006 0000 01 Type not defined
0001 01 Automated statistical regression
0002 01 Clear path
0003 01 Partly cloudy path
0004 01 Cloudy path
008035 0000 0000 01 Global
0001 01 Regional
0002 01 National
0003 01 Special
0004 01 Bilateral
0005 01 Reserved
0006 01 Reserved
0007 01 MISSING0015 01 MISSING VALUE
002167 0004 0000 01 Method not define
0001 01 1b raw radiance
0002 01 processed radiance
0015 01 MISSING VALUE
002169 0004 0000 01 Cup rotor
0001 01 Propeller rotor
0002 01 Wind Observation Through Ambient Noise (WOTAN)
0015 01 MISSING VALUE
002172 0003 0001 01 Retrieval from a nadir sounding
0002 01 Retrieval from a limb sounding
0255 01 MISSING VALUE
002175 0009 0000 01 Manual measurement
0001 01 Tipping bucket method
0002 01 Weighing method
0003 01 Optical method
0004 01 Pressure method
0005 01 Float method
0006 01 Drop counter method
0014 01 Other
0015 01 MISSING VALUE
002176 0006 0000 01 Manual observation
0001 01 Video camera method
0002 01 Infra-red method
0003 01 Laser method
0014 01 Other
0015 01 MISSING VALUE
002177 0005 0000 01 Manual observation
0001 01 Ultrasonic method
0002 01 Video camera method
0014 01 Other
0015 01 MISSING VALUE
002178 0005 0000 01 Manual observation

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0001 01 Optical method
0002 01 Capacitive method
0014 01 Other
0015 01 MISSING VALUE
002179 0006 0000 01 Manual observation
0001 01 VAISALA algorithm
0002 01 ASOS (FAA) algorithm
0003 01 AWOS (Canada) algorithm
0014 01 Other
0015 01 MISSING VALUE
002180 0008 0000 01 Manual observation
0001 02 Optical scatter system combined with precipitation
occurrence sensing system
0002 01 Forward and/or back-scatter system of visible light
0003 01 Forward and/or back-scatter system of infrared light
0004 01 Infrared light emitting diode (IRED) system
0005 01 Doppler radar system
0014 01 Other
0015 01 MISSING VALUE
002181 0005 0001 01 Rain detector
0002 01 Freezing rain sensor
0003 01 Ice detection sensor
0004 01 Hail and ice pellet sensor
0020 01 Other
002182 0007 0000 01 Manual measurement
0001 01 Transmissometer system (base > 25)
0002 01 Transmissometer system (base < 25 m)
0003 01 Forward scatter system
0004 01 Back scatter system
0014 01 Other
0015 01 MISSING VALUE
002183 0009 0000 01 Manual observation
0001 01 Ceilometer system
0002 01 Infrared camera system
0003 01 Microwave visual camera system
0004 01 Sky imager system
0005 01 Video time lapsed camera system
0006 01 Micro pulse lidar (MPL) system
0014 01 Other
0015 01 MISSING VALUE
002184 0008 0000 01 Manual observation
0001 01 Lightning imaging sensor
0002 01 Electrical storm identification sensor
0003 01 Magnetic finder sensor
0004 01 Lightning strike sensor
0005 01 Flash counter
0014 01 Other
0015 01 MISSING VALUE
002185 0007 0000 01 Manual measurement
0001 01 Balanced floating method
0002 01 Pressure method
0003 01 Ultrasonic method
0004 01 Hydraulic method
0014 01 Other
0015 01 MISSING VALUE
002186 0023 0001 01 Precipitation-unknown type
0002 01 Liquid precipitation not freezing
0003 01 Liquid freezing precipitation
0004 01 Drizzle
0005 01 Rain
0006 01 Solid precipitation
0007 01 Snow
0008 01 Snow grains
0009 01 Snow pellets
0010 01 Ice pellets
0011 01 Ice crystals
0012 01 Diamond dust
0013 01 Small hail
0014 01 Hail
0015 01 Glaze
0016 01 Rime
0017 01 Soft rime
0018 01 Hard rime
0019 01 Clear ice
0020 01 Wet snow
0021 01 Hoar frost
0022 01 Dew
0023 01 White dew
002187 0011 0001 01 Dust/sand whirl
0002 01 Squalls
0003 01 Sand storm
0004 01 Dust storm
0005 01 Lightning - cloud to surface
0006 01 Lightning - cloud to cloud
0007 01 Lightning - distant
0008 01 Thunderstorm
0009 01 Funnel Cloud not touching surface
0010 01 Funnel cloud touching surface
0011 01 Spray
002188 0010 0001 01 Fog
0002 01 Ice fog
0003 01 Steam fog
0007 01 Mist
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0008 01 Haze
0009 01 Smoke
0010 01 Volcanic ash
0011 01 Dust
0012 01 Sand
0013 01 Snow
002189 0004 0001 01 Manual observation
0002 01 All lightning strikes without discrimination
0003 01 Lightning strikes cloud to ground only
0004 02 All lightning strikes with discrimination between
    cloud to ground and cloud to cloud
002194 0002 0000 01 FGGE
0015 01 MISSING VALUE
002196 0017 0000 01 Nimbus
0001 01 VTPR
0002 01 TIROS 1 ( TIROS NOAA 6 to NOAA 13)
0003 01 TIROS 2 ( NOAA-14 ONWARD)
0031 01 DMSP
0061 01 EUMETSAT POLAR SYSTEM (EPS)
0091 01 ERS
0121 01 ADEOS
0241 01 GOES
0271 01 GMS
0301 01 INSAT
0331 01 METEOSAT OPERATIONAL PROGRAMME (MOP)
0332 01 METEOSAT TRANSITIONAL PROGRAMME (MTP)
0333 01 METEOSAT SECOND GENERATION PROGRAMME (MSG)
0351 01 GOMS
0381 01 FY-2
0512 01 MISSING VALUE
002252 0012 0001 01 HIGH-RESOLUTION INFRARED SOUNDER (HIRS)
0002 01 STRATOSPHERIC SOUNDING UNIT (SSU)
0003 01 STRATOSPHERIC SOUNDING UNIT (SSU)
0004 01 AMI WIND MODE
0005 01 AMI WAVE MODE
0006 01 AMI IMAGE MODE
0007 01 RADAR ALTIMETER
0008 01 ATSR
0009 01 GEOSTATIONARY IMAGER
0010 01 GEOSTATIONARY SOUNDER
0011 01 GEOSTATIONARY EARTH RADIATION (GERB)
0031 01 ALL BITS SET - MISSING VALUE
002199 0004 0000 01 RESERVED
0001 01 TABLE WITH FULL RANGE OF HUMMIDITY VALUES IN LAYER
0002 01 REGRESSION TECHNIQUE ON 2 HUMMIDITY VALUES IN LAYER
0015 01 MISSING VALUE
002231 0010 0000 01 RESERVED
0001 01 IRW HEIGHT ASSIGNMENT
0002 01 WV HEIGHT ASSIGNMENT
0003 01 H2O INTERCEPT HEIGHT ASSIGNMENT
0004 01 CO2 SLICING HEIGHT ASSIGNMENT
0005 01 LOW PIXEL MAX GRADIENT
0006 01 HIGHER PIXEL MAX GRADIENT
0007 01 PRIMARY HEIGHT ASSIGNMENT
0008 01 LAYER THICKNESS ASSIGNMENT
0015 01 MISSING VALUE
002232 0004 0000 01 P - NORMS LEAST SQUARE MINIMUM
0001 01 EN - EUCLIDEAN NORM WITH RADIANCE CORRELATION
0002 01 CC - CROSS CORRELATION
0003 01 MISSING VALUE
002251 0004 0000 01 METHOD NOT DEFINED
0001 01 1B RAW RADIANCE
0002 01 PROCESSED RADIANCE
0015 01 MISSING VALUE
002254 0006 0000 01 TYPE NOT DEFINED
0001 01 AUTOMATED STATISTICAL REGRESSION
0002 01 CLEAR PATH
0003 01 PARTLY CLOUDY PATH
0004 01 CLOUDY PATH
0015 01 MISSING VALUE
004059 0005 0001 01 00 UTC
0002 01 06 UTC
0003 01 12 UTC
0004 01 18 UTC
0005 01 Other hours
008001 0007 0001 01 SURFACE
0002 01 STANDARD LEVEL
0003 01 TROPOPAUSE LEVEL
0004 01 MAXIMUM WIND LEVEL
0005 01 SIGNIFICANT LEVEL, TEMPERATURE
0006 01 SIGNIFICANT LEVEL, WIND
0007 01 MISSING VALUE
008002 0013 0000 02 OBSERVING RULES FOR BASE OF LOWEST CLOUD AND CLOUD TYPES OF
    FM 12-IX EXT. SYNOP AND FM 13-IX EXT. SHIP APPLY
0001 01 FIRST NON - Cb SIGNIFICANT LAYER
0002 01 SECOND NON - Cb SIGNIFICANT LAYER
0003 01 THIRD NON - Cb SIGNIFICANT LAYER
0004 01 CUMULONIMBUS LAYER
0005 01 CEILING
0006 01 CLOUD NOT DETECTED BELOW THE FOLLOWING HEIGHT(S)
0007 01 LOW CLOUD
0008 01 MIDDLE CLOUD
0009 01 HIGH CLOUD

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0010 02 Cloud layer with base below the station level and top
      above the station level
0011 01 Cloud layer with base and top below the station level
0063 01 MISSING VALUE
008003 0009 0000 01 SURFACE
      0001 01 BASE OF SATELLITE SOUNDING
      0002 01 CLOUD TOP
      0003 01 TROPOPAUSE
      0004 01 PRECIPITABLE WATER
      0005 01 SOUNDING RADIANCES
      0006 01 MEAN TEMPERATURES
      0007 01 OZON
      0063 01 MISSING VALUE
008004 0006 0002 01 UNSTEADY (UNS)
      0003 01 LEVEL FLIGHT, ROUTINE OBSERVATION (LVR)
      0004 01 LEVEL FLIGHT, HIGHEST WIND ENCOUNTERED (LVW)
      0005 01 ASCENDING (ASC)
      0006 01 DESCENDING (DES)
      0007 01 MISSING VALUE
008005 0005 0000 01 RESERVED
      0001 01 STORM CENTRE
      0002 01 OUTER LIMIT OR EDGE OF STORM
      0003 01 LOCATION OF MAXIMUM WIND
      0015 01 MISSING VALUE
008006 0008 0001 01 SURFACE
      0002 01 STANDARD LEVEL
      0003 01 TROPOPAUSE LEVEL
      0004 01 PROMINENT MAXIMUM LEVEL
      0005 01 PROMINENT MINIMUM LEVEL
      0006 01 MINIMUM PRESSURE LEVEL
      0007 01 RESERVED
      0008 01 LEVEL OF UNDETERMINED SIGNIFICANCE
008007 0005 0000 01 POINT
      0001 01 LINE
      0002 01 AREA
      0003 01 VOLUME
      0015 01 MISSING VALUE
008008 0008 0001 01 Surface
      0002 01 Standard level
      0003 01 Tropopause level
      0004 01 Level of beta radiation maximum
      0005 01 Level of gamma radiation maximum
      0006 01 Minimum pressure level
      0007 01 Reserved
      0008 01 Level of undetermined significance
008009 0016 0000 01 Level flight, routine observation, unsteady
      0001 01 Level flight, highest wind encountered, unsteady
      0002 01 Unsteady (UNS)
      0003 01 Level flight, routine observation (LVR)
      0004 01 Level flight, highest wind encountered (LVW)
      0005 01 Ascending (ASC)
      0006 01 Descending (DES)
      0007 02 Ascending, observation intervals selected by
            time increments
      0008 02 Ascending, observation intervals selected by
            time increments, unsteady
      0009 02 Ascending, observation intervals selected by
            pressure increments
      0010 02 Ascending, observation intervals selected by
            pressure increments, unsteady
      0011 02 Descending, observation intervals selected by
            time increments
      0012 02 Descending, observation intervals selected by
            time increments, unsteady
      0013 02 Descending, observation intervals selected by
            pressure increments
      0014 02 Descending, observation intervals selected by
            pressure increments, unsteady
      0015 01 Missing value
008010 0013 0000 01 Reserved
      0001 01 Bare soil
      0002 01 Bare rock
      0003 01 Land grass cover
      0004 01 Water (lake, sea)
      0005 01 Flood water underneath
      0006 01 Snow
      0007 01 Ice
      0008 01 Runway or road
      0009 01 Ship or platform deck in steel
      0010 01 Ship or platform deck in wood
      0011 01 Ship or platform deck partly covered with rubber mat
      0031 01 Missing value
008011 0026 0000 01 QUASI-STATIONARY FRONT AT THE SURFACE
      0001 01 QUASI-STATIONARY FRONT ABOVE THE SURFACE
      0002 01 WARM FRONT AT THE SURFACE
      0003 01 WARM FRONT ABOVE THE SURFACE
      0004 01 COLD FRONT AT THE SURFACE
      0005 01 COLD FRONT ABOVE THE SURFACE
      0006 01 OCCLUSION
      0007 01 INSTABILITY LINE
      0008 01 INTERTROPICAL FRONT
      0009 01 CONVERGENCE LINE
      0010 01 JET STREAM
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0011 01 CLOUD CLEAR
0012 01 CLOUD
0013 01 TURBULENCE
0014 01 STORM
0015 01 AIRFRAME ICING
0016 01 PHENOMENON
0017 01 VOLCANO
0018 01 Atmospherics
0020 01 SPECIAL CLOUDS
0021 01 Thunderstorm (VAL)
0022 01 Tropical cyclone (VAL)
0023 01 Mountain Wave (VAL)
0024 01 Duststorm (VAL)
0025 01 Sandstorm (VAL)
0063 01 MISSING VALUE
008012 0004 0000 01 LAND
0001 01 SEA
0002 01 RESERVED
0003 01 MISSING VALUE
008013 0004 0000 01 night
0001 01 DAY
0002 01 RESERVED
0003 01 MISSING VALUE
008014 0010 0000 01 10-MINUTE MEAN VALUE - NORMAL VALUE
0001 01 10-MINUTE MEAN VALUE - ABOVE THE UPPER LIMIT FOR ASSESSMENT OF RVR (P)
0002 01 10-MINUTE MEAN VALUE - BELOW LOWER LIMIT FOR ASSESSMENT OF RVR (M)
0003 01 ONE MINUTE MINIMUM VALUE - NORMAL VALUE
0004 01 ONE MINUTE MINIMUM VALUE - ABOVE THE UPPER LIMIT FOR ASSESSMENT OF RVR (P)
0005 01 ONE MINUTE MINIMUM VALUE - BELOW LOWER LIMIT FOR ASSESSMENT OF RVR (M)
0006 01 ONE MINUTE MAXIMUM VALUE - NORMAL VALUE
0007 01 ONE MINUTE MAXIMUM VALUE - ABOVE THE UPPER LIMIT FOR ASSESSMENT OF RVR (P)
0008 01 ONE MINUTE MAXIMUM VALUE - BELOW LOWER LIMIT FOR ASSESSMENT OF RVR (M)
0015 01 MISSING VALUE
008016 0005 0000 01 NOSIG
0001 01 BECMG
0002 01 TEMPO
0003 01 FM
0007 01 MISSING VALUE
008017 0004 0000 01 FM
0001 01 TL
0002 01 AT
0003 01 MISSING VALUE
008018 0005 0001 01 LAND IS PRESENT
0002 01 SURFACE ICE MAP INDICATES ICE IS PRESENT
0011 01 ICE MAP DATA NOT AVAILABLE
0012 01 ATTENUATION MAP DATA NOT AVAILABLE
0017 01 MISSING VALUE
008021 0028 0000 01 RESERVED
0001 01 TIME SERIES
0002 01 TIME AVERAGED
0003 01 ACCUMULATED
0004 01 FORECAST
0005 01 FORECAST TIME SERIES
0006 01 FORECAST TIME AVERAGED
0007 01 FORECAST ACCUMULATED
0008 01 ENSEMBLE MEAN
0009 01 ENSEMBLE MEAN TIME SERIES
0010 01 ENSEMBLE MEAN TIME AVERAGED
0011 01 ENSEMBLE MEAN ACCUMULATED
0012 01 ENSEMBLE MEAN FORECAST
0013 01 ENSEMBLE MEAN FORECAST TIME SERIES
0014 01 ENSEMBLE MEAN FORECAST AVERAGED
0015 01 ENSEMBLE MEAN FORECAST ACCUMULATED
0016 01 ANALYSIS
0017 01 START OF PHENOMENON
0018 01 RADIOSONDE LAUNCH TIME
0019 01 START OF ORBIT
0020 01 END OF ORBIT
0021 01 TIME OF ASCENDING NODE
0022 01 TIME OF OCCURENCE OF WIND SHIFT
0027 01 FIRST GUESS --not wmo entry
0028 01 START OF SCAN --not wmo entry
0029 01 END OF SCAN --not wmo entry
0031 01 MISSING VALUE
008023 0010 0002 01 MAXIMUM VALUE
0003 01 MINIMUM VALUE
0004 01 MEAN VALUE
0005 01 MEDIAN VALUE
0006 01 MODAL VALUE
0007 01 MEAN ABSOLUTE ERROR
0009 01 BEST ESTIMATE OF STANDARD DEVIATION (N-1)
0010 01 STANDARD DEVIATION
0011 01 HARMONIC MEAN
0012 01 ROOT MEAN SQUARE VECTOR ERROR
0013 01 ROOT-MEAN-SQUARE
0032 01 PROBABILITY OF GROSS ERROR
0033 01 PRESCRIBED OBSERVATION ERROR
0034 01 PERSISTENCE OBSERVATION ERROR
0035 01 FINAL OBSERVATION ERROR
0036 01 REPRESENTATIVNESS OBSERVATION ERROR
0063 01 MISSING
008024 0012 0002 01 OBSERVED MINUS MAXIMUM
0003 01 OBSERVED MINUS MINIMUM

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0004 01 OBSERVED MINUS MEAN
0005 01 OBSERVED MINUS MEDIAN
0006 01 OBSERVED MINUS MODE
0011 01 OBSERVED MINUS CLIMATOLOGY (ANOMALY)
0012 01 OBSERVED MINUS ANALYZED VALUE
0013 01 OBSERVED MINUS INITIALIZED ANALYZED VALUE
0014 01 OBSERVED MINUS FORECAST VALUE
0021 01 OBSERVED MINUS INTERPOLATED VALUE
0022 01 OBSERVED MINUS HYDROSTATICALLY CALCULATED VALUE
0032 01 OBSERVED MINUS FIRST GUESS
0033 01 OBSERVED MINUS ANALYSIS
0034 01 OBSERVED MINUS INITIALIZED ANALYSIS
0063 01 MISSING
008025 0005 0000 02 Universal Time Coordinated (UTC) minus
    Local Standard Time (LST)
    0001 01 LOCAL STANDARD TIME
    0002 01 Universal Time Coordinated (UTC) minus Satellite clock
    0005 01 TIME DIFFERENCE FROM EDGE OF PROCESSING SEGMENT
    0015 01 MISSING
008029 0005 0000 01 Open ocean or semi-enclosed sea
    0001 01 Enclosed sea or lake
    0002 01 Continental ice
    0003 01 Land
    0255 01 MISSING
008033 0004 0000 01 Reserved
    0001 01 Percentage confidence calculated using cloud fraction
    0002 01 Percentage confidence calculated using standard
        deviation of temperature
    0127 01 MISSING
008035 0008 0000 01 Global
    0001 01 Regional
    0002 01 National
    0003 01 Special
    0004 01 Bilateral
    0005 01 Reserved
    0006 01 Reserved
    0007 01 MISSING
008036 0008 0000 01 WMO Secretariat
    0001 01 WMO
    0002 01 RSMC
    0003 01 NMC
    0004 01 RTH
    0005 01 Observing site
    0006 01 Other
    0007 01 MISSING
008039 0004 0000 01 Issue time of forecast
    0001 01 Forecsat time of maximum temperature
    0002 01 Forecsat time of minimum temperature
    0064 01 Missing value
008040 0044 0000 01 High resolution data sample
    0001 01 Within 20 hPa of surface
    0002 02 Pressure less than 10 hPa (i.e., 9, 8, 7, etc.)
        when no other reason applies
    0003 01 Base pressure level for stability index
    0004 01 Begin doubtful temperature, height data
    0005 01 Begin missing data (all elements)
    0006 01 Begin missing RH data
    0007 01 Begin missing temperature data
    0008 02 Highest level reached before balloon
        descent because of icing or turbulence
    0009 01 End doubtful temperature, height data
    0010 01 End missing data (all elements)
    0011 01 End missing RH data
    0012 01 End missing temperature data
    0013 01 Zero degrees C crossing(s) for RADAT
    0014 01 Standard pressure level
    0015 01 Operator added level
    0016 01 Operator deleted level
    0017 01 Balloon re-ascended beyond previous highest ascent level
    0018 01 Significant RH level
    0019 01 RH level selection terminated
    0020 01 Surface level
    0021 01 Significant temperature level
    0022 01 Mandatory temperature level
    0023 01 Flight termination level
    0024 01 Tropopause(s)
    0025 01 Aircraft report
    0026 01 Interpolated (generated) level
    0027 01 Mandatory wind level
    0028 01 Significant wind level
    0029 01 Maximum wind level
    0030 01 Incremental wind level (fixed regional)
    0031 01 Incremental height level (generated)
    0032 01 Wind termination level
    0033 01 Pressure 100 to 110 hPa, when no other reason applies
    0040 01 Significant thermodynamic level (inversion)
    0041 01 Significant RH level ( per NCDC criteria)
    0042 01 Significant temperature level (per NCDC)
    0043 01 Begin missing wind data
    0044 01 End missing wind data
    0060 01 Level of 80-knot isotach above jet
    0061 01 Level of 80-knot isotach below jet
    0062 01 Other
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0063 01 Missing value
008041 0009 0000 01 Parent site
0001 01 Observation site
0002 01 Balloon manufacture date
0003 01 Balloon launch point
0004 01 Surface observation
0005 01 Surface observation displacement from launch point
0006 01 Flight level observation
0007 01 Flight level termination point
0031 01 MISSING VALUE
008042 0014 0001 01 Surface
0002 01 Standard level
0003 01 Tropopause level
0004 01 Maximum wind level
0005 01 Significant temperature level
0006 01 Significant humidity level
0007 01 Significant wind level
0008 01 Beginning of missing temperature data
0009 01 End of missing temperature data
0010 01 Beginning of missing humidity data
0011 01 End of missing humidity data
0012 01 Beginning of missing wind data
0013 01 End of missing wind data
0018 01 ALL 18 MISSING
008050 0011 0000 01 Reserved
0001 01 Pressure
0002 01 Temperature
0003 01 Extreme temperature
0004 01 Vapour pressure
0005 01 Precipitation
0006 01 Sunshine duration
0007 01 Maximum temperature
0008 01 Minimum temperature
0009 01 Wind
0015 01 Missing value
008051 0007 0001 01 PRESSURE
0002 01 TEMPERATURE
0003 01 EXTREME TEMPERATURE
0004 01 VAPOUR PRESSURE
0005 01 PRECIPITATION
0006 01 SUNSHINE DURATION
0007 01 MISSING VALUE
008052 0026 0000 02 MEAN WIND SPEED OVER 10-MINUTES PERIOD OBSERVED OR RECORDED
EQUAL TO OR MORE THAN 10 M/S
0001 02 MEAN WIND SPEED OVER 10-MINUTES PERIOD OBSERVED OR RECORDED
EQUAL TO OR MORE THAN 20 M/S
0002 02 MEAN WIND SPEED OVER 10-MINUTES PERIOD OBSERVED OR RECORDED
EQUAL TO OR MORE THAN 30 M/S
0003 01 MAXIMUM TEMPERATURE LESS THAN 273.2 K
0004 01 MAXIMUM TEMPERATURE EQUAL TO OR MORE THAN 298.2 K
0005 01 MAXIMUM TEMPERATURE EQUAL TO OR MORE THAN 303.2 K
0006 01 MAXIMUM TEMPERATURE EQUAL TO OR MORE THAN 308.2 K
0007 01 MAXIMUM TEMPERATURE EQUAL TO OR MORE THAN 313.2 K
0008 01 MINIMUM TEMPERATURE LESS THAN 273.2 K
0009 01 MAXIMUM TEMPERATURE EQUAL TO OR MORE THAN 273.2 K
0010 01 PRECIPITATION EQUAL TO OR MORE THAN 1.0 KG/M**2
0011 01 PRECIPITATION EQUAL TO OR MORE THAN 5.0 KG/M**2
0012 01 PRECIPITATION EQUAL TO OR MORE THAN 10.0 KG/M**2
0013 01 PRECIPITATION EQUAL TO OR MORE THAN 50.0 KG/M**2
0014 01 PRECIPITATION EQUAL TO OR MORE THAN 100.0 KG/M**2
0015 01 PRECIPITATION EQUAL TO OR MORE THAN 150.0 KG/M**2
0016 01 SNOW DEPTH MORE THAN 0.0 M
0017 01 SNOW DEPTH MORE THAN 0.01 M
0018 01 SNOW DEPTH MORE THAN 0.10 M
0019 01 SNOW DEPTH MORE THAN 0.50 M
0020 01 HORIZONTAL VISIBILITY LESS THAN 50 M
0021 01 HORIZONTAL VISIBILITY LESS THAN 100 M
0022 01 HORIZONTAL VISIBILITY LESS THAN 1000 M
0023 01 HAIL
0024 01 THUNDERSTORM
0031 01 MISSING VALUE
008053 0004 0000 01 VALUE OCCURED ON ONLY ONE DAY IN THE MONTH
0001 01 VALUE OCCURED ON MORE THAN ONE DAY IN THE MONTH
0002 01 RESERVED
0003 01 MISSING VALUE
008054 0003 0000 01 Wind speed or gust is as reported
0001 01 Wind speed is greater than that reprinted (P in METAR/TAF/SPECI)
0007 01 Missing value
008060 0008 0000 01 RESERVED
0001 01 RANGE
0002 01 AZIMUTH
0003 01 HORIZONTAL
0004 01 VERTICAL
0005 01 NORTH/SOUTH
0006 01 EAST/WEST
0015 01 MISSING VALUE
008065 0004 0000 01 No sun-glint
0001 01 Sun-glint
0002 01 Reserved
0003 01 Missing value
008066 0004 0000 01 Opaque
0001 01 Semi-transparent
0002 01 Reserved

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0003 01 Missing value
008070 0006 0000 01 Reserved
0001 01 Reserved
0002 02 Earth located instrument counts,
calibration coefficients and housekeeping (level 1b)
0003 01 Earth located calibrated radiances (level 1c)
0004 02 Mapped to a common footprint, earth located
calibrated radiances (level 1d)
0015 01 MISSING VALUE
008072 0004 0000 01 Mixed
0001 01 Clear
0002 01 Cloudy
0007 01 Missing value
008074 0004 0000 01 Open ocean or semi-enclosed sea
0001 01 Non-ocean like
0002 01 Reserved
0003 01 Missing value
008075 0004 0000 01 Ascending orbit
0001 01 Descending orbit
0002 01 Reserved
0003 01 Missing value
008076 0003 0000 01 Ku
0001 01 C
0063 01 MISSING VALUE
008079 0003 0006 01 Special report ( SPECI)
0007 01 Corrected special report (SPECI COR)
0015 01 Missing value
008193 0007 0000 01 START TIME OF ORBIT
0001 01 END TIME OF ORBIT
0002 01 TIME OF ASCENDING NODE
0003 01 ASSIMILATION TIME
0004 01 START TIME OF ASSIMILATION
0005 01 END TIME OF ASSIMILATION
0063 01 MISSING
008080 0005 0000 01 Total water pressure profile
0001 01 Total water temperature profile
0002 01 Total water salinity profile
0003 01 Total water conductivity profile
0063 01 Missing value
008081 0005 0000 01 Sensor
0001 01 Transmitter
0002 01 Receiver
0003 01 Observing platform
0063 01 MISSING
008082 0003 0000 01 Sensor height is not modified
0001 01 Sensor height is modified to standard level
0007 01 Missing value
008195 0032 0001 01 FIRST GUESS
0002 01 ANALYSIS
0003 01 INITIALISED ANALYSIS
0004 01 OI ANALYSIS
0005 01 3 D VARIATIONAL ANALYSIS
0006 01 4 D VARIATIONAL ANALYSIS
0007 01 3 D VARIATIONAL GRADIENTS
0008 01 4 D VARIATIONAL GRADIENTS
0009 01 FORECAST
0010 01 CONTROL FORECAST
0011 01 PERTURBED FORECAST
0012 01 ERRORS IN FIRST GUESS
0013 01 ERRORS IN ANALYSIS
0014 01 CLUSTER MEANS
0015 01 CLUSTER STANDARD DEVIATIONS
0016 01 FORECAST PROBABILITIES
0017 01 ENSEMBLE MEANS
0018 01 ENSEMBLE STANDARD DEVIATIONS
0019 01 FORECAST ACCUMULATIONS
0020 01 CLIMATOLOGY
0021 01 CLIMATE SIMULATION
0030 01 OBSERVATIONS
0031 01 QUALITY CONTROL
0032 01 DIFFERENCE STATISTICS
0040 01 IMAGE DATA
0050 01 SENSITIVITY GRADIENTS
0051 01 TRAJECTORY FORECAST
0052 01 SENSITIVITY FORECAST
0060 01 PERTURBED ANALYSIS
0061 01 PERTURBATION
0062 01 SINGULAR VECTOR
0127 01 MISSING VALUE
010063 0010 0000 02 INCREASING, THEN DECREASING; ATMOSPHERIC PRESURE THE SAME OR
HIGHER THAN 3 HOURS AGO (OR 24 HOURS AGO )
0001 01 INCREASING, THEN STEADY; OR INCREASING; THEN MORE SLOWLY
0002 01 INCREASING (STEADILY OR UNSTEADILY )
0003 01 DECREASING OR STEADY, THEN INCREASING; RAPIDLY
0004 02 STEADY; ATMOSPHERIC PRESSURE THE SAME AS 3 HOURS AGO (OR 24
HOURS)
0005 02 DECREASING; THEN INCREASING; ATMOSPHERIC PRESSURE THE SAME O
R LOWER THAN 3 HOURS AGO
0006 02 DECREASING, THEN STEADY; OR DECREASING, DECREASING MORE SLOW
LY
0007 01 DECREASING (STEADILY OR UNSTEADILY )
0008 02 STEADY OR INCREASING, THEN DECREASING; OR DECREASING, THEN
DECREASING MORE RAPIDLY
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0015 01 MISSING
011031 0009 0000 01 NIL           IN CLOUD
              0001 01 SLIGHT      IN CLOUD
              0002 01 MODERATE     IN CLOUD
              0003 01 SEVERE       IN CLOUD
              0004 01 NIL          IN CLEAR AIR
              0005 01 SLIGHT      IN CLEAR AIR
              0006 01 MODERATE     IN CLEAR AIR
              0007 01 SEVERE       IN CLEAR AIR
              0015 01 MISSING VALUE
011037 0030 0000 01 ave <0.1 peak <0.1
              0001 01 ave <0.1 0.1 <= peak <0.2
              0002 01 0.1 <= ave <0.2 0.1 <= peak <0.2
              0003 01 ave <0.1 0.2 <= peak <0.3
              0004 01 0.1 <= ave <0.2 0.2 <= peak <0.3
              0005 01 0.2 <= ave <0.3 0.2 <= peak <0.3
              0006 01 ave <0.1 0.3 <= peak <0.4
              0007 01 0.1 <= ave <0.2 0.3 <= peak <0.4
              0008 01 0.2 <= ave <0.3 0.3 <= peak <0.4
              0009 01 0.3 <= ave <0.4 0.3 <= peak <0.4
              0010 01 ave <0.1 0.4 <= peak <0.5
              0011 01 0.1 <= ave <0.2 0.4 <= peak <0.5
              0012 01 0.2 <= ave <0.3 0.4 <= peak <0.5
              0013 01 0.3 <= ave <0.4 0.4 <= peak <0.5
              0014 01 0.4 <= ave <0.5 0.4 <= peak <0.5
              0015 01 ave <0.1 0.5 <= peak <0.8
              0016 01 0.1 <= ave <0.2 0.5 <= peak <0.8
              0017 01 0.2 <= ave <0.3 0.5 <= peak <0.8
              0018 01 0.3 <= ave <0.4 0.5 <= peak <0.8
              0019 01 0.4 <= ave <0.5 0.5 <= peak <0.8
              0020 01 0.5 <= ave <0.8 0.5 <= peak <0.8
              0021 01 ave <0.1 0.8 <= peak
              0022 01 0.1 <= ave <0.2 0.8 <= peak
              0023 01 0.2 <= ave <0.3 0.8 <= peak
              0024 01 0.3 <= ave <0.4 0.8 <= peak
              0025 01 0.4 <= ave <0.5 0.8 <= peak
              0026 01 0.5 <= ave <0.8 0.8 <= peak
              0027 01 0.8 <= ave 0.8 <= peak
              0028 01 Nil           Nil
              0063 01 MISSING VALUE
011038 0017 0000 01 min < 1
              0001 01 1 <= min < 2
              0002 01 2 <= min < 3
              0003 01 3 <= min < 4
              0004 01 4 <= min < 5
              0005 01 5 <= min < 6
              0006 01 6 <= min < 7
              0007 01 7 <= min < 8
              0008 01 8 <= min < 9
              0009 01 9 <= min < 10
              0010 01 10 <= min < 11
              0011 01 11 <= min < 12
              0012 01 12 <= min < 13
              0013 01 13 <= min < 14
              0014 01 14 <= min < 15
              0015 01 No timing information available
              0031 01 MISSING VALUE
011039 0016 0000 01 1 <= min < 2
              0001 01 2 <= min < 3
              0002 01 3 <= min < 4
              0004 01 4 <= min < 5
              0005 01 5 <= min < 6
              0006 01 6 <= min < 7
              0007 01 7 <= min < 8
              0008 01 8 <= min < 9
              0009 01 9 <= min < 10
              0010 01 10 <= min < 11
              0011 01 11 <= min < 12
              0012 01 12 <= min < 13
              0013 01 13 <= min < 14
              0014 01 14 <= min < 15
              0060 01 No timing information available
              0063 01 MISSING VALUE
013038 0004 0000 01 NOT SUPERADIABATIC
              0001 01 SUPERADIABATIC
              0002 01 RESERVED
              0003 01 MISSING VALUE
013039 0003 0000 01 SEA ICE
              0001 01 SNOW ON LAND
              0007 01 MISSING VALUE
013040 0009 0000 01 Land
              0001 01 Reserved
              0002 01 Near coast
              0003 01 Ice
              0004 01 Possible ice
              0005 01 Ocean
              0006 01 Coast
              0007 01 Desert
              0015 01 MISSING VALUE
013041 0010 0001 01 A
              0002 01 A-B
              0003 01 B
              0004 01 B-C

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0005 01 C
0006 01 D
0007 01 E
0008 01 F
0009 01 G
0015 01 MISSING VALUE
013051 0008 0000 01 SMALLER THAN ANY VALUE IN THE 30 YEARS PERIOD
0001 01 IN THE FIRST QUINTILE
0002 01 IN THE SECOND QUINTILE
0003 01 IN THE THIRD QUINTILE
0004 01 IN THE FOURTH QUINTILE
0005 01 IN THE FIFTH QUINTILE
0006 01 GREATER THAN ANY VALUE IN THE 30 YEAR PERIOD
0015 01 MISSING VALUE
013202 0007 0000 01 LAND
0001 01 VEGETATION
0003 01 MULTI-YEAR ICE
0004 01 POSSIBLE ICE OR FIRST YEAR ICE
0005 01 OCEAN
0006 01 COASTLINE
0015 01 MISSING VALUE
015025 0000 0000 01 Ozone
0015 01 MISSING VALUE
019001 0007 0000 01 DEPRESSION OR LOW (EXTRATROPICAL)
0001 01 TROPICAL DEPRESSION
0002 01 TROPICAL STORM
0003 01 SEVERE TROPICAL STORM
0004 01 TYPHOON
0010 01 DUST/SANDSTORM
0063 01 MISSING VALUE
019008 0005 0000 01 reserved
0001 01 SHALLOW (TOP OF CIRCULATION BELOW 700-HPA LEVEL
0002 01 MEDIUM(TOP BETWEEN 700-HPA AND 400-HPA)
0003 01 DEEP(TOP ABOVE 400-HPA LEVEL
0007 01 MISSING VALUE
019010 0004 0000 01 Reserved
0001 01 Minimum value of sea level pressure
0002 01 Maximum value of 850 hPa relative vorticity
0015 01 Missing value
020003 0250 0000 01 CLOUD DEVELOPMENT NOT OBSERVED OR NOT OBSERVABLE
0001 01 CLOUDS GENERALLY DISSOLVING OR BECOMING LESS DEVELOPED
0002 01 STATE OF SKY ON THE WHOLE UNCHANGED
0003 01 CLOUDS GENERALLY FORMING OR DEVELOPING
0004 02 VISIBILITY REDUCED BY SMOKE, E.G. VELDT OR FOREST FIRES, IN
DUSTRIAL SMOKE OR VOLCANIC ASHES
0005 01 HAZE
0006 02 WIDESPREAD DUST IN SUSPENSION IN THE AIR, NOT RAISED BY WIND
AT OR NEAR THE STATION AT THE TIME OF OBSERVATION
0007 04 DUST OR SAND RAISED BY WIND AT OR NEAR THE STATION AT THE TI
ME OF OBSERVATION, BUT NO WELL-DEVELOPED DUST WHIRL(S) OR SA
ND WHIRL(S), AND NO DUSTSTORM OR SANDSTORM SEEN; OR, IN THE
CASE OF SHIPS, BLOWING SPRAY AT THE STATION
0008 03 WELL-DEVELOPED DUST WHIRL(S) OR SAND WHIRLS SEEN AT OR NEAR
THE STATION DURING THE PRECEDING HOUR OR AT THE SAME TIME OF
OBSERVATION, BUT NO DUSTSTORM OR SANDSTORM
0009 02 DUSTSTORM OR SANDSTORM WITHIN SIGHT AT THE TIME OF OBSERVATI
ON, OR AT THE STATION DURING THE PRECEDING HOR
0010 01 MIST
0011 02 PACHES SHALLOW FOG OR ICE AT THE STATION, WHETHER ON LAND OR
SEA, NOT DEEPER THAN 2 METRES ON LAND OR 10 METRES AT SEA
0012 03 MORE OR LESS CONTINUOUS SHALLOW FOG OR ICE AT THE STATION,
WHETHER ON LAND OR SEA, NOT DEEPER THAN 2 METRES ON LAND OR
10 METRES AT SEA
0013 01 LIGHTNING VISIBLE, NO THUNDER HEARD
0014 02 PRECIPITATION WITHIN SIGHT, NOT REACHING THE GROUND OR THE
SURFACE OF THE SEA
0015 03 PRECIPITATION WITHIN SIGHT, REACHING THE GROUND OR THE SURFA
CE OF THE SEA, BUT DISTANT, I.E. ESTIMATED TO BE MORE THAN
5 KM FROM THE STATION
0016 02 PRECIPITATION WITHIN SIGHT, REACHING THE GROUND OR THE SURFA
CE OF THE SEA, NEAR TO, BUT NOT AT THE STATION
0017 02 THUNDERSTORM, BUT NO PRECIPITATION AT THE TIME OF OBSERVATIO
N
0018 02 SQUALLS AT OR WITHIN SIGHT OF THE STATION DURING THE PRECEDI
NG HOUR OR AT THE TIME OF OBSERVATION
0019 02 FUNNEL CLOUD(S) AT OR WITHIN SIGHT OF THE STATION DURING THE
PRECEDING HOUR OR AT THE TIME OF OBSERVATION
0020 03 DRIZZEL (NOT FREEZING) OR SNOW GRAINS NOT FALLING AS SHOWERS
; DURING THE PRECEDING HOUR BUT NOT AT THE TIME OF OBSERVATI
ONS
0021 02 RAIN (NOT FREEZING) NOT FALLING AS SHOWER(S); DURING THE PRE
CEDING HOUR BUT NOT AT THE TIME OF OBSERVATION
0022 02 SNOW NOT FALLING AS SHOWER(S); DURING THE PRECEDING HOUR BUT
NOT AT THE TIME OF OBSERVATION
0023 02 RAIN AND SNOW OR ICE PELLETS NOT FALLING AS SHOWER(S); DURIN
G THE PRECEDING HOUR BUT NOT AT THE TIME OF OBSERVATION
0024 02 FREEZING DRIZZEL OR FREEZING RAIN NOT FALLING AS SHOWER(S);
DURING THE PRECEDING HOUR BUT NOT AT THE TIME OF OBSERVATION
0025 02 SHOWER(S) OF RAIN; DURING THE PRECEDING HOUR BUT NOT AT THE
TIME OF OBSERVATION
0026 02 SHOWER(S) OF SNOW, OR OF RAIN AND SNOW; DURING THE PRECEDING
HOUR BUT NOT AT THE TIME OF OBSERVATION
0027 02 SHOWER(S) OF HAIL, OR OF RAIN AND HAIL; DURING THE PRECEDING

HOUR BUT NOT AT THE TIME OF OBSERVATION
 0028 02 FOG OR ICE FOG; DURING THE PRECEDING HOUR BUT NOT AT THE TIME OF OBSERVATION
 0029 02 THUNDERSTORM (WITH OR WITHOUT PRECIPITATION); DURING THE PRECEDING HOUR BUT NOT AT THE TIME OF OBSERVATION
 0030 02 SLIGHT OR MODERATE DUSTSTORM OR SANDSTORM HAS DECREASED DURING THE PRECEDING HOURS
 0031 02 SLIGHT OR MODERATE DUSTSTORM OR SANDSTORM NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 0032 02 SLIGHT OR MODERATE DUSTSTORM OR SANDSTORM HAS BEGUN OR HAS INCREASED DURING THE PRECEDING HOUR
 0033 02 SEVERE DUSTSTORM OR SANDSTORM HAS DECREASED DURING THE PRECEDING HOURS
 0034 02 SEVERE DUSTSTORM OR SANDSTORM NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 0035 02 SEVERE DUSTSTORM OR SANDSTORM HAS BEGUN OR HAS INCREASED DURING THE PRECEDING HOUR
 0036 02 SLIGHT OR MODERATE DRIFTING SNOW GENERALLY LOW (BELOW EYE LEVEL)
 0037 01 HEAVY DRIFTING SNOW GENERALLY LOW (BELOW EYE LEVEL)
 0038 02 SLIGHT OR MODERATE BLOWING SNOW GENERALLY HIGH (ABOVE EYE LEVEL)
 0039 01 HEAVY BLOWING SNOW GENERALLY HIGH (ABOVE EYE LEVEL)
 0040 03 FOG OR ICE FOG AT A DISTANCE AT THE TIME OF OBSERVATION, BUT NOT AT THE STATION DURING THE PRECEDING HOUR, THE FOG OR ICE FOG EXTENDING TO A LEVEL ABOVE THAT OF THE OBSERVER
 0041 01 FOG OR ICE FOG IN PATCHES
 0042 02 FOG OR ICE FOG, SKY VISIBLE, HAS BECOME THINNER DURING THE PRECEDING HOUR
 0043 02 FOG OR ICE FOG, SKY INVISIBLE, HAS BECOME THINNER DURING THE PRECEDING HOUR
 0044 02 FOG OR ICE FOG, SKY VISIBLE, NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 0045 02 FOG OR ICE FOG, SKY INVISIBLE, NO APPRECIABLE CHANGE DURING THE PRECEDING HOUR
 0046 02 FOG OR ICE FOG, SKY VISIBLE, HAS BEGUN OR HAS BECOME THICKER DURING THE PRECEDING HOUR
 0047 02 FOG OR ICE FOG, SKY INVISIBLE, HAS BEGUN OR HAS BECOME THICKER DURING THE PRECEDING HOUR
 0048 01 FOG, DEPOSITING RIME, SKY VISIBLE
 0049 01 FOG, DEPOSITING RIME, SKY INVISIBLE
 0050 02 DRIZZLE, NOT FREEZING, INTERMITTENT; SLIGHT AT TIME OF OBSERVATION
 0051 02 DRIZZLE, NOT FREEZING, CONTINUOUS ; SLIGHT AT TIME OF OBSERVATION
 0052 02 DRIZZLE, NOT FREEZING, INTERMITTENT; MODERATE AT TIME OF OBSERVATION
 0053 02 DRIZZLE, NOT FREEZING, CONTINUOUS ; MODERATE AT TIME OF OBSERVATION
 0054 02 DRIZZLE, NOT FREEZING, INTERMITTENT; HEAVY (DENSE) AT THE TIME OF OBSERVATION
 0055 02 DRIZZLE, NOT FREEZING, CONTINUOUS ; HEAVY (DENSE) AT THE TIME OF OBSERVATION
 0056 01 DRIZZLE, FREEZING, SLIGHT
 0057 01 DRIZZLE, FREEZING, MODERATE OR HEAVY (DENSE)
 0058 01 DRIZZLE AND RAIN, SLIGHT
 0059 01 DRIZZLE AND RAIN, MODERATE OR HEAVY
 0060 01 RAIN, NOT FREEZING, INTERMITTENT; SLIGHT AT TIME OF OBSERVATION
 0061 01 RAIN, NOT FREEZING, CONTINUOUS ; SLIGHT AT TIME OF OBSERVATION
 0062 02 RAIN, NOT FREEZING, INTERMITTENT; MODERATE AT TIME OF OBSERVATION
 0063 02 RAIN, NOT FREEZING, CONTINUOUS ; MODERATE AT TIME OF OBSERVATION
 0064 02 RAIN, NOT FREEZING, INTERMITTENT; HEAVY AT TIME OF OBSERVATION
 0065 01 RAIN, NOT FREEZING, CONTINUOUS; HEAVY AT TIME OF OBSERVATION
 0066 01 RAIN, FREEZING, SLIGHT
 0067 01 RAIN, FREEZING, MODERATE OR HEAVY
 0068 01 RAIN OR DRIZZLE AND SNOW, LIGHT
 0069 01 RAIN OR DRIZZLE AND SNOW, MODERATE OR HEAVY
 0070 02 INTERMITTENT FALL OF SNOWFLAKES, SLIGHT AT TIME OF OBSERVATION
 0071 02 CONTINUOUS FALL OF SNOWFLAKES, SLIGHT AT TIME OF OBSERVATION
 0072 02 INTERMITTENT FALL OF SNOWFLAKES, MODERATE AT TIME OF OBSERVATION
 0073 02 CONTINUOUS FALL OF SNOWFLAKES, MODERATE AT TIME OF OBSERVATION
 0074 02 INTERMITTENT FALL OF SNOWFLAKES, HEAVY AT TIME OF OBSERVATION
 0075 02 CONTINUOUS FALL OF SNOWFLAKES, HEAVY AT TIME OF OBSERVATION
 0076 01 DIAMOND DUST (WITH OR WITHOUT FOG)
 0077 01 SNOW GRAINS (WITH OR WITHOUT FOG)
 0078 01 ISOLATED STAR-LIKE SNOW CRYSTALS (WITH OR WITHOUT FOG)
 0079 01 ICE PELLETS
 0080 01 RAIN SHOWER(S), SLIGHT
 0081 01 RAIN SHOWER(S), MODERATE OR HEAVY
 0082 01 RAIN SHOWER(S), VIOLENT
 0083 01 SHOWER(S) OF RAIN AND SNOW MIXED, SLIGHT
 0084 01 SHOWER(S) OF RAIN AND SNOW MIXED, MODERATE OR HEAVY
 0085 01 SNOW SHOWER(S), SLIGHT
 0086 01 SNOW SHOWER(S), MODERATE OR HEAVY

0087 02 SHOWER(S) OF SNOW PELLETS OR SMALL HAIL, WITH OR WITHOUT RAIN OR RAIN AND SNOW MIXED, SLIGHT
0088 02 SHOWER(S) OF SNOW PELLETS OR SMALL HAIL, WITH OR WITHOUT RAIN OR RAIN AND SNOW MIXED, MODERATE OR HEAVY
0089 02 SHOWER(S) OF HAIL, WITH OR WITHOUT RAIN OR RAIN AND SNOW MIXED, NOT ASSOCIATED WITH THUNDER, SLIGHT
0090 02 SHOWER(S) OF HAIL, WITH OR WITHOUT RAIN OR RAIN AND SNOW MIXED, NOT ASSOCIATED WITH THUNDER, MODERATE OR HEAVY
0091 02 SLIGHT RAIN AT TIME OF OBSERVATION, THUNDERSTORM DURING THE PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION
0092 02 MODERATE OR HEAVY RAIN AT TIME OF OBSERVATION, THUNDERSTORM DURING THE PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION
0093 03 SLIGHT SNOW, OR RAIN AND SNOW MIXED OR HAIL AT TIME OF OBSERVATION, THUNDERSTORM DURING THE PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION
0094 03 MODERATE OR HEAVY SNOW, OR RAIN AND SNOW MIXED OR HAIL AT TIME OF OBSERVATION, THUNDERSTORM DURING PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION
0095 03 THUNDERSTORM, SLIGHT OR MODERATE, WITHOUT HAIL, BUT WITH RAIN AND/OR SNOW AT TIME OF OBSERVATION, THUNDERSTORM DURING THE PRECEDING HOUR BUT NOT AT TIME OF OBSERVATION
0096 02 THUNDERSTORM, SLIGHT OR MODERATE, WITH HAIL AT TIME OF OBSERVATION, THUNDERSTORM AT TIME OF OBSERVATION
0097 02 THUNDERSTORM, HEAVY, WITHOUT HAIL BUT WITH RAIN AND/OR SNOW AT TIME OF OBSERVATION, THUNDERSTORM AT TIME OF OBSERVATION
0098 02 THUNDERSTORM COMBINED WITH DUSTSTORM OR SANDSTORM AT TIME OF OBSERVATION, THUNDERSTORM AT TIME OF OBSERVATION
0099 02 THUNDERSTORM, HEAVY, WITH HAIL AT TIME OF OBSERVATION, THUNDERSTORM AT TIME OF OBSERVATION
0100 01 NO SIGNIFICANT WEATHER OBSERVED
0101 02 CLOUDS GENERALLY DISSOLVING OR BECOMING LESS DEVELOPED DURING THE PAST HOUR
0102 01 STATE OF SKY ON THE WHOLE UNCHANGED DURING THE PAST HOUR
0103 01 CLOUDS GENERALLY FORMING OR DEVELOPING DURING THE PAST HOUR
0104 02 HAZE OR SMOKE, OR DUST IN SUSPENSION IN THE AIR, VISIBILITY EQUAL TO, OR GREATER THAN 1KM
0105 02 HAZE OR SMOKE, OR DUST IN SUSPENSION IN THE AIR, VISIBILITY LESS THAN 1KM
0110 01 MIST
0111 01 DIAMOND DUST
0112 01 DISTANT LIGHTING
0118 01 SQUALLS
0120 01 FOG
0121 01 PRECIPITATION
0122 01 DRIZZLE (NOT FREEZING) OR SNOW GRAINS
0123 01 RAIN (NOT FREEZING)
0124 01 SNOW
0125 01 FREEZING DRIZZLE OR FREEZING RAIN
0126 01 THUNDERSTORM (WITH OR WITHOUT PRECIPITATION)
0127 01 BLOWING OR DRIFTING SNOW OR SAND
0128 02 BLOWING OR DRIFTING SNOW OR SAND, VISIBILITY EQUAL TO, OR GREATER THAN, 1KM
0129 01 BLOWING OR DRIFTING SNOW OR SAND, VISIBILITY LESS THAN 1 KM
0130 01 FOG
0131 01 FOG OR ICE FOG, IN PATCHES
0132 01 FOG OR ICE FOG, HAS BECOME THINNER DURING PAST HOUR
0133 01 FOG OR ICE FOG, NO APPRECIABLE CHANGE DURING PAST HOUR
0134 01 FOG OR ICE FOG, HAS BECAME THICKER DURING PAST HOUR
0135 01 FOG, DEPOSITION RIME
0140 01 PRECIPITATION
0141 01 PRECIPITATION SLIGHT OR MODERATE
0142 01 PRECIPITATION, HEAVY
0143 01 LIQUID PRECIPITATION, SLIGHT OR MODERATE
0144 01 LIQUID PRECIPITATION, HEAVY
0145 01 SOLID PRECIPITATION, SLIGHT OR MODERATE
0146 01 SOLID PRECIPITATION, HEAVY
0147 01 FREEZING PRECIPITATION, SLIGHT OR MODERATE
0148 01 FREEZING PRECIPITATION, HEAVY
0150 01 DRIZZLE
0151 01 DRIZZLE, NOT FREEZING, SLIGHT
0152 01 DRIZZLE, NOT FREEZING, MODERATE
0153 01 DRIZZLE, NOT FREEZING, HEAVY
0154 01 DRIZZLE, FREEZING, SLIGHT
0155 01 DRIZZLE, FREEZING, MODERATE
0156 01 DRIZZLE, FREEZING, HEAVY
0157 01 DRIZZLE AND RAIN, SLIGHT
0158 01 DRIZZLE AND RAIN, MODERATE OR HEAVY
0160 01 RAIN
0161 01 RAIN, NOT FREEZING, SLIGHT
0162 01 RAIN, NOT FREEZING, MODERATE
0163 01 RAIN, NOT FREEZING, HEAVY
0164 01 RAIN, FREEZING, SLIGHT
0165 01 RAIN, FREEZING, MODERATE
0166 01 RAIN, FREEZING, HEAVY
0167 01 RAIN (OR DRIZZLE) AND SNOW, SLIGHT
0168 01 RAIN (OR DRIZZLE) AND SNOW, MODERATE AND HEAVY
0170 01 SNOW
0171 01 SNOW, SLIGHT
0172 01 SNOW, MODERATE
0173 01 SNOW, HEAVY
0174 01 ICE PELLETS, SLIGHT
0175 01 ICE PELLETS, MODERATE
0176 01 ICE PELLETS, HEAVY

0180 01 SHOWER(S) OR INTERMITTENT PRECIPITATION
 0181 01 RAIN SHOWER(S) OR INTERMITTENT RAIN, SLIGHT
 0182 01 RAIN SHOWER(S) OR INTERMITTENT RAIN, MODERATE
 0183 01 RAIN SHOWER(S) OR INTERMITTENT RAIN, HEAVY
 0184 01 RAIN SHOWER(S) OR INTERMITTENT RAIN, VIOLENT
 0185 01 SNOW SHOWER(S) OR INTERMITTENT SNOW, SLIGHT
 0186 01 SNOW SHOWER(S) OR INTERMITTENT SNOW, MODERATE
 0187 01 SNOW SHOWER(S) OR INTERMITTENT SNOW, HEAVY
 0190 01 THUNDERSTORM
 0191 01 THUNDERSTORM, SLIGHT OR MODERATE, WITH NO PRECIPITATION
 0192 02 THUNDERSTORM, SLIGHT OR MODERATE, WITH RAIN SHOWERS AND/OR S
 NOW SHOWERS
 0193 01 THUNDERSTORM, SLIGHT OR MODERATE, WITH HAIL
 0194 01 THUNDERSTORM, HEAVY, WITH NO PRECIPITATION
 0195 01 THUNDERSTORM, HEAVY, WITH RAIN SHOWERS AND/OR SNOW SHOWERS
 0196 01 THUNDERSTORM, HEAVY, WITH HAIL
 0204 01 VOLCANIC ASH SUSPENDED IN THE AIR ALOFT
 0206 01 THICK DUST HAZE, VISIBILITY LESS THAN 1 KM
 0207 01 BLOWING SPRAY AT THE STATION
 0208 01 DRIFTING DUST (SAND)
 0209 01 WALL OF DUST OR SAND IN DISTANCE (LIKE HABOOB)
 0210 01 SNOW HAZE
 0211 01 WHITEOUT
 0213 01 LIGHTING, CLOUD TO SURFACE
 0217 01 DRY THUNDERSTORM
 0219 02 TORNADO CLOUD (DESTRUCTIVE AT OR WITHIN SIGHT OF THE STATION
 DURING PRECEDING HOUR OR AT THE TIME OF OBSERVATION
 0220 01 DEPOSITION OF VOLCANIC ASH
 0221 01 DEPOSITION OF DUST OR SAND
 0222 01 DEPOSITION OF DEW
 0223 01 DEPOSITION OF WET SNOW
 0224 01 DEPOSITION OF SOFT RIME
 0225 01 DEPOSITION OF HARD RIME
 0226 01 DEPOSITION OF HOAR FROST
 0227 01 DEPOSITION OF GLAZE
 0228 01 DEPOSITION OF ICE CRUST (ICE SLICK)
 0230 01 DUSTSTORM OR SANDSTORM WITH TEMPERATURE BELOW 0 C DEGREES
 0239 02 BLOWING SNOW, IMPOSSIBLE TO DETERMINE WHETHER SNOW IS FALLIN
 G OR NOT
 0241 01 FOG ON SEA
 0242 01 FOG IN VALLEYS
 0243 01 ARCTIC OR ANTARCTIC SEA SMOKE
 0244 01 STEAM FOG (SEA, LAKE OR RIVER)
 0245 01 STEAM FOG (LAND)
 0246 01 FOG OVER ICE OR SNOW COVER
 0247 01 DENCE FOG VISIBILITY 60-90 M
 0248 01 DENCE FOG VISIBILITY 30-60 M
 0249 01 DENCE FOG VISIBILITY LESS THAN 30 M
 0250 01 DRIZZLE, RATE OF FALL LESS THAN 0.10 MM/H
 0251 01 DRIZZLE, RATE OF FALL 0.10 - .19 MM/H
 0252 01 DRIZZLE, RATE OF FALL 0.20 - .39 MM/H
 0253 01 DRIZZLE, RATE OF FALL 0.40 - .79 MM/H
 0254 01 DRIZZLE, RATE OF FALL 0.80 - 1.59 MM/H
 0255 01 DRIZZLE, RATE OF FALL 1.60 - 3.19 MM/H
 0256 01 DRIZZLE, RATE OF FALL 3.20 - 6.39 MM/H
 0257 01 DRIZZLE, RATE OF FALL 6.40 MM/H OR MORE
 0259 01 DRIZZLE AND SNOW
 0260 01 RAIN, RATE OF FALL LESS THAN 1.0 MM/H
 0261 01 RAIN, RATE OF FALL 1.0 - 1.9 MM/H
 0262 01 RAIN, RATE OF FALL 2.0 - 3.9 MM/H
 0263 01 RAIN, RATE OF FALL 4.0 - 7.9 MM/H
 0264 01 RAIN, RATE OF FALL 8.0 - 15.9 MM/H
 0265 01 RAIN, RATE OF FALL 16.0 - 31.9 MM/H
 0266 01 RAIN, RATE OF FALL 32.0 - 63.9 MM/H
 0267 01 RAIN, RATE OF FALL 64.0 MM/H OR MORE
 0270 01 SNOW, RATE OF FALL LESS THAN 1.0 CM/H
 0271 01 SNOW, RATE OF FALL 1.0 - 1.9 CM/H
 0272 01 SNOW, RATE OF FALL 2.0 - 3.9 CM/H
 0273 01 SNOW, RATE OF FALL 4.0 - 7.9 CM/H
 0274 01 SNOW, RATE OF FALL 8.0 - 15.9 CM/H
 0275 01 SNOW, RATE OF FALL 16.0 - 31.9 CM/H
 0276 01 SNOW, RATE OF FALL 32.0 - 63.9 CM/H
 0277 01 SNOW, RATE OF FALL 64.0 CM/H OR MORE
 0278 01 SNOW OR ICE CRISTAL PRECIPITATION FROM A CLEAR SKY
 0279 01 WET SNOW, FREEZING ON CONTACT
 0280 01 PRECIPITATION OF RAIN (WW= 87-99)
 0281 01 PRECIPITATION OF RAIN, FREEZING (NW= 80-82)
 0282 01 PRECIPITATION OF RAIN AND SNOW MIXED
 0283 01 PRECIPITATION OF SNOW
 0284 01 PRECIPITATION OF SNOW PELLETS OR SMALL HAIL
 0285 01 PRECIPITATION OF SNOW PELLETS OR SMALL HAIL, WITH RAIN
 0286 02 PRECIPITATION OF SNOW PELLETS OR SMALL HAIL, WITH RAIN AND S
 NOW MIXED
 0287 01 PRECIPITATION OF SNOW PELLETS OR SMALL HAIL, WITH SNOW
 0288 01 PRECIPITATION OF HAIL
 0289 01 PRECIPITATION OF HAIL, WITH RAIN
 0290 01 PRECIPITATION OF HAIL, WITH RAIN AND SNOW MIXED
 0291 01 PRECIPITATION OF HAIL, WITH SNOW
 0292 01 SHOWER(S) OR THUNDERSTORM OVER SEA
 0293 01 SHOWER(S) OR THUNDERSTORM OVER MOUNTAINS
 0508 02 NO SIGNIFICANT PHENOMENA TO REPORT, PRESENT AND PAST WEATHER
 OMITTED
 0509 02 NOT OBSERVED, NO DATA AVAILABLE, PRESENT AND PAST WEATHER OM

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      ITTED
0510 01 PRESENT AND PAST WEATHER MISSING, BUT EXPECTED
0511 01 MISSING VALUE
020004 0021 0000 02 CLOUD COVERING 1/2 OR LESS OF THE SKY THROUGHOUT THE APPROPRIATE PERIOD
0001 03 CLOUD COVERING MORE THAN 1/2 OF THE SKY DURING PART OF THE APPROPRIATE PERIOD AND COVERING 1/2 OR LESS DURING PART OF THE PERIOD
0002 02 CLOUD COVERING MORE THAN 1/2 OF THE SKY THROUGHOUT THE APPROPRIATE PERIOD
0003 01 SANSTORM, DUSTSTORM OR BLOWING SNOW
0004 01 FOG OR ICE OR THICK HAZE
0005 01 DRIZZLE
0006 01 RAIN
0007 01 SNOW, OR RAIN AND SNOW MIXED
0008 01 SHOWER(S)
0009 01 THUNDERSTORM(S) WITH OR WITHOUT PRECIPITATION
0010 01 NO SIGNIFICANT WEATHER OBSERVED
0011 01 VISIBILITY REDUCED
0012 01 BLOWING PHENOMENA, VISIBILITY REDUCED
0013 01 FOG
0014 01 PRECIPITATION
0015 01 DRIZZLE
0016 01 RAIN
0017 01 SNOW OR ICE PELLETS
0018 01 SHOWERS OR INTERMITTENT PRECIPITATION
0019 01 THUNDERSTORM
0031 01 MISSING VALUE
020005 0021 0000 02 CLOUD COVERING 1/2 OR LESS OF THE SKY THROUGHOUT THE APPROPRIATE PERIOD
0001 03 CLOUD COVERING MORE THAN 1/2 OF THE SKY DURING PART OF THE APPROPRIATE PERIOD AND COVERING 1/2 OR LESS DURING PART OF THE PERIOD
0002 02 CLOUD COVERING MORE THAN 1/2 OF THE SKY THROUGHOUT THE APPROPRIATE PERIOD
0003 01 SANSTORM, DUSTSTORM OR BLOWING SNOW
0004 01 FOG OR ICE OR THICK HAZE
0005 01 DRIZZLE
0006 01 RAIN
0007 01 SNOW, OR RAIN AND SNOW MIXED
0008 01 SHOWER(S)
0009 01 THUNDERSTORM(S) WITH OR WITHOUT PRECIPITATION
0010 01 NO SIGNIFICANT WEATHER OBSERVED
0011 01 VISIBILITY REDUCED
0012 01 BLOWING PHENOMENA, VISIBILITY REDUCED
0013 01 FOG
0014 01 PRECIPITATION
0015 01 DRIZZLE
0016 01 RAIN
0017 01 SNOW OR ICE PELLETS
0018 01 SHOWERS OR INTERMITTENT PRECIPITATION
0019 01 THUNDERSTORM
0031 01 MISSING VALUE
020008 0019 0000 01 Sky Clear
0001 01 Few
0002 01 Scattered
0003 01 Broken
0004 01 Overcast
0005 01 Reserved
0006 01 Scattered/Broken (Many forecasts use Scattered/Broken)
0007 01 Broken/Overcast (Broken/Overcast followed by cloud type(s))
0008 01 Isolated (Used on aviation charts to describe the cloud type Cb)
0009 01 Isolated embedded (Used on aviation charts to describe the cloud type Cb)
0010 01 Occasional (Used on aviation charts to describe the cloud type Cb)
0011 01 Occasional embedded (Used on aviation charts to describe the cloud type Cb)
0012 01 Frequent (Used on aviation charts to describe the cloud type Cb)
0013 02 Dense (Used on aviation charts to describe cloud that would cause sudden changes in visibility (less than 1000m))
0014 01 Layers
0015 01 Obscured (OBSC)
0016 01 Embedded (EMBD)
0017 01 Frequent embedded
0031 01 MISSING VALUE
020009 0006 0000 01 reserved
0001 01 NSC MIL SIGNIFICANT CLOUD
0002 01 CAVOK
0003 01 SKC SKY CLEAR
0004 01 NSW NIL SIGNIFICANT WEATHER
0015 01 MISSING VALUE
020011 0011 0000 01 0 0
0001 01 1 OKTA OR LESS, BUT NOT ZERO 1/10 OR LESS, BUT NOT ZERO
0002 01 2 OKTAS 2/10 - 3/10
0003 01 3 OKTAS 4/10
0004 01 4 OKTAS 5/10
0005 01 5 OKTAS 6/10
0006 01 6 OKTAS 7/10 - 8/10
0007 01 7 OKTAS OR MORE, BUT NOT 8 OKTAS 9/10 OR MORE, BUT NOT 10/10
0008 01 8 OKTAS 10/10
0009 01 SKY OBSCURED BY FOG AND OR OTHER METEOROLOGICAL PHENOMENA
0015 02 CLOUD COVER IS INDISCERNIBLE FOR REASONS OTHER THAN FOG OR OTHER METEOROLOGICAL PHENOMENA, OR OBSERVATION IS NOT MADE
020012 0045 0000 01 CIRRUS (CI).....CI
0001 01 CIRROCUMULUS (CC).....CC
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0002 01 CIRROSTRATUS (CS).....CS
0003 01 ALTOCUMULUS (AC).....AC
0004 01 ALTOSTRATUS (AS).....AS
0005 01 NIMBOSTRATUS (NS).....NS
0006 01 STRATOCUMULUS(SC).....SC
0007 01 STRATUS (ST).....ST
0008 01 CUMULUS (CU).....CU
0009 01 CUMULONIMBUS (CB).....CB
0010 01 NO CH CLOUDS
0011 02 CIRRUS FIBRATUS, SOMETIMES UNCINUS, NOT PROGRESSIVELY INADIN
    G THE SKY
0012 04 CIRRUS SPISSATUS, IN PATCHES OR ENTANGLED SHEAVES, WHICH USU
    ALLY DO NOT INCREASE AND SOMETIMES SEEM TO BE THE REMAINS OF
    THE UPPER PART OF A CUMULONIMBUS; OR CIRRUS CASTELLANUS OR
    FLOCCUS
0013 01 CIRRUS SPISSATUS CUMULONIMBOGENITUS
0014 02 CIRRUS UNCINUS OR FIBRATUS,OR BOTH, PROGRESSIVELY INVADING T
    HE SKY ; THEY GENERALLY THICKEN AS A WHOLE
0015 04 CIRRUS (OFTEN IN BANDS) AND CIRROSTRATUS, OR CIRROSTRATUS AL
    ONE, PROGRESSIVELY INVADING THE SKY; THEY GENERALLY THICKEN
    ASA WHOLE, BUT THE CONTINUOUS VEIL DOES NOT REACH 45 DEGREES
    ABOVE THE HORIZON
0016 05 CIRRUS (OFTEN IN BANDS) AND CIRROSTRATUS, OR CIRROSTRATUS AL
    ONE, PROGRESSIVELY INVADING THE SKY; THEY GENERALLY THICKEN
    ASA WHOLE, BUT THE CONTINUOUS VEIL EXTENDS MORE THAN 45 DEGR
    REES ABOVE THE HORIZON, WITHOUT THE SKY BEING TOTALLY COVERE
    D
0017 01 CIRROSTRATUS COVERING THE WHOLE SKY
0018 02 CIRROSTRATUS NOT PROGRESSIVELY INVADING THE SKY AND NOT ENTI
    RELY COVERING IT
0019 02 CIRROCUMULUS ALONE, OR CIRROCUMULUS PREDOMINANT AMONG THE CH
    CLOUDS
0020 01 NO CM CLOUDS
0021 01 ALTOSTRATUS TRANSLUCIDUS
0022 01 ALTOSTRATUS OPACUS OR NIMBOSTRATUS
0023 01 ALTOCUMULUS TRANSLUCIDUS AT A SINGLE LEVEL
0024 02 PATCHES (OFTEN LENTICULARIS) OF ALTOCUMULUS TRANSLUCIDUS, CO
    NTINUALLY CHANGING AND OCCURRING AT ONE OR MORE LEVELS
0025 04 ALTOCUMULUS TRANSLUCIDUS IN BANDS, OR ONE OR MORE LAYERS OF
    ALTOCUMULUS TRANSLUCIDUS OR OPACUS, PROGRESSIVELY INVADING T
    HE SKY; THESE ALTOCUMULUS CLOUDS GENERALLY THICKEN AS A WHOL
    E
0026 01 ALTOCUMULUS CUMULOGENITUS (OR CUMULONIMBOGENITUS)
0027 04 ALTOCUMULUS TRANSLUCIDUS OR OPACUS IN TWO OR MORE LAYERS, OR
    ALTOCUMULUS OPACUS IN A SINGLE LAYER, NOT PROGRESSIVELY INV
    ADING THE SKY, OR ALTOCUMULUS WITH ALTOSTRATUS OR NIMBOSTRAT
    US
0028 01 ALTOCUMULUS CASTELLANUS OR FLOCUS
0029 01 ALTOCUMULUS OF CHAOTIC SKY, GENERALLY AT SEVERAL LEVELS
0030 01 NO CL CLOUDS
0031 02 CUMULUS HUMILIS OR CUMULUS FRACTUS OTHER THAN OF BAD WEATHER
    , OR BOTH
0032 03 CUMULUS MEDIOCRIS OR CONGESTUS, WITH OR WITHOUT CUMULUS OF S
    PECIES FRACTUS OR HUMILIS OR STRATOCUMULUS, ALL HAVING THEIR
    BASES AT THE SAME LEVEL
0033 02 CUMULONIMBUS CALVUS, WITH OR WITHOUT CUMULUS, STRATOCUMULUS
    OR STRATUS
0034 01 STRATOCUMULUS CUMULOGENITUS
0035 01 STRATOCUMULUS OTHER THAN STRATOCUMULUS CUMULOGENITUS
0036 02 STRATUS NEBULOSUS OR STRATUS FRACTUS OTHER THAN OF BAD WEATH
    ER, OR BOTH
0037 02 STRATUS FRACTUS OR CUMULUS FRACTUS OF BAD WEATHER, OR BOTH
    (PANNUS), USUALLY BELOW ALTOSTRATUS OR NIMBOSTRATUS
0038 02 CUMULUS AND STRATOCUMULUS OTHER THAN STRATOCUMULUS CUMULOGEN
    ITUS, WITH BASES AT DIFFERENT LEVELS
0039 03 CUMULONIMBUS CAPILLATUS (OFTEN WITH AN ANVIL), WITH OR WITHO
    UT CUMULONIMBUS CALVUS, CUMULUS, STRATOCUMULUS, STRATUS OR P
    ANNUS
0059 02 CLOUD NOT VISIBLE OWING TO DARKNESS, FOG, DUSTSTORM, SANDSTO
    RM, OR OTHER ANALOGOUS PHENOMENA
0060 03 CH CLOUDS INVISIBLE OWING TO DARKNESS, FOG, DUSTSTORM, SANDS
    TORM, OR OTHER SIMILAR PHENOMENA, OR BECAUSE OF A CONTINUOUS
    LAYER OF LOWER CLOUDS
0061 03 CM CLOUDS INVISIBLE OWING TO DARKNESS, FOG, DUSTSTORM, SANDS
    TORM, OR OTHER SIMILAR PHENOMENA, OR BECAUSE OF A CONTINUOUS
    LAYER OF LOWER CLOUDS
0062 02 CL CLOUDS INVISIBLE OWING TO DARKNESS, FOG, DUSTSTORM, SANDS
    TORM, OR OTHER SIMILAR PHENOMENA
0063 01 MISSING VALUE
020017 0011 0000 01 ISOLATED CLOUD OR FRAGMENTS OF CLOUD
    0001 01 CONTINUOUS CLOUD
    0002 01 BROKEN CLOUD - SMALL BREAKS, FLAT TOPS
    0003 01 BROKEN CLOUD - LARGE BREAKS, FLAT TOPS
    0004 01 CONTINUOUS CLOUD
    0005 01 BROKEN CLOUD - SMALL BREAKS, UNDULATED TOPS
    0006 01 BROKEN CLOUD - LARGE BREAKS, UNDULATED TOPS
    0007 02 CONTINUOUS OR ALMOST CONTINUOUS WAVES WITH TOWERING CLOUDS A
    BOVE THE TOP OF THE LAYER
    0008 02 GROUPS OF WAVES WITH TOWERING CLOUDS ABOVE THE TOP OF THE LA
    YER
    0009 01 TWO OR MORE LAYERS AT DIFFERENT LEVELS
    0015 01 MISSING VALUE
020018 0004 0000 01 INCREASING (U)

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0001 01 DECREASING (D)
0002 01 NO DISTINCT CHANGE (N)
0003 01 MISSING VALUE
020021 0024 0001 01 Precipitation-unknown type
0002 01 Liquid precipitation not freezing
0003 01 Liquid freezing precipitation
0004 01 Drizzle
0005 01 Rain
0006 01 Solid precipitation
0007 01 Snow
0008 01 Snow grains
0009 01 Snow pellets
0010 01 Ice pellets
0011 01 Ice crystals
0012 01 Diamond dust
0013 01 Small hail
0014 01 Hail
0015 01 Glaze
0016 01 Rime
0017 01 Soft rime
0018 01 Hard rime
0019 01 Clear ice
0020 01 Wet snow
0021 01 Hoar frost
0022 01 Dew
0023 01 White dew
0030 01 All 30 missing value
020022 0007 0000 01 No precipitation
0001 01 Continuous
0002 01 Intermittent
0003 01 Shower
0004 01 Not reaching ground
0005 01 Deposition
0015 01 MISSING VALUE
020023 0012 0001 01 Dust/sand whirl
0002 01 Squalls
0003 01 Sand storm
0004 01 Dust storm
0005 01 Lightning - cloud to surface
0006 01 Lightning - cloud to cloud
0007 01 Lightning - distant
0008 01 Thunderstorm
0009 01 Funnel Cloud not touching surface
0010 01 Funnel cloud touching surface
0011 01 Spray
0012 01 Water-spout
020024 0007 0000 01 No phenomena
0001 01 Light
0002 01 Moderate
0003 01 Heavy
0004 01 Violent
0005 01 Severe (VAL)
0007 01 Missing value
020025 0011 0001 01 Fog
0002 01 Ice fog
0003 01 Steam fog
0007 01 Mist
0008 01 Haze
0009 01 Smoke
0010 01 Volcanic ash
0011 01 Dust
0012 01 Sand
0013 01 Snow
0021 01 All 21 missing value
020026 0014 0000 01 No change
0001 01 Shallow
0002 01 Patches
0003 01 Partial
0004 01 Freezing
0005 01 Low drifting
0006 01 Blowing
0007 01 Increasing
0008 01 Decreasing
0009 01 In suspension in the air
0010 01 Wall
0011 01 Dense
0012 01 Whiteout
0015 01 Missing value
020027 0007 0001 01 At time of observation
0002 01 In past hour
0003 01 In time period for past weather W1W2
0004 01 In time period specified
0006 01 Below station level
0007 01 At the station
0008 01 In the vicinity
0009 01 All 9 missing value
020029 0004 0000 01 No rain
0001 01 rain
0002 01 Reserved
0003 01 Missing value
020032 0006 0000 01 ICE NOT BUILDING UP
0001 01 ICE BUILDING UP SLOWLY
0002 01 ICE BUILDING UP QUICKLY
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0003 01 ICE MELTING OR BREAKING UP SLOWLY
0004 01 ICE MELTING OR BREAKING UP RAPIDLY
0007 01 MISSING VALUE
020033 0004 0001 01 ICING FROM OCEAN SPRAY
0002 01 ICING FROM FOG
0003 01 ICING FROM RAIN
0004 01 MISSING VALUE
020034 0012 0000 01 NO SEA ICE IN SIGHT
0001 02 SHIP IN OPEN LEAD MORE THAN 1.0 NAUTICAL MILE WIDE, OR SHIP
IN FAST ICE WITH BOUNDARY BEYOND LIMIT OF VISIBILITY
0002 04 SEA ICE PRESENT IN CONCENTRATION LESS THAN 3/10 (3/8), OPEN W
ATER OR VERY OPEN PACK ICE, SEA ICE CONCENTRATION IS UNIFORM
IN THE OBSERVATION AREA, SHIP IN ICE OR WITHIN 0.5 NAUTICAL
MILE OF ICE EDGE
0003 03 4/10 TO 6/10 (3/8 TO LESS THAN 6/8) ,OPEN PACK ICE, SEA ICE
CONCENTRATION IS UNIFORM IN THE OBSERVATION AREA, SHIP IN ICE
OR WITHIN 0.5 NAUTICAL MILE OF ICE EDGE
0004 03 7/10 TO 8/10 (6/8 TO LESS THAN 7/8), CLOSE PACK ICE, SEA ICE
CONCENTRATION IS UNIFORM IN THE OBSERVATION AREA, SHIP IN IC
E OR WITHIN 0.5 NAUTICAL MILE OF ICE EDGE
0005 04 9/10 OR MORE, BUT NOT 10/10 (7/8 TO LESS THAN 8/8), VERY CLO
SE PACK ICE, SEA ICE CONCENTRATION IS UNIFORM IN THE OBSERVAT
ION AREA, SHIP IN ICE OR WITHIN 0.5 NAUTICAL MILE OF ICE EDG
E
0006 03 STRIPS AND PATCHES OF PACK ICE WITH OPEN WATER BETWEEN, SEA
ICE CONCENTRATION IS NOT UNIFORM IN THE OBSERVATION AREA, SH
IP IN ICE OR WITHIN 0.5 NAUTICAL MILE OF ICE EDGE
0007 04 STRIPS AND PATCHES OF CLOSE OR VERY CLOSE PACK ICE WITH AREA
S OF LESSER CONCENTRATION BETWEEN, SEA ICE CONCENTRATION IS N
OT UNIFORM IN THE OBSERVATION AREA, SHIP IN ICE OR WITHIN 0.
5 NAUTICAL MILE OF ICE EDGE
0008 04 FAST ICE WITH OPEN WATER,VERY OPEN OR OPEN PACK ICE TO SEAWA
RD OF THE ICE BOUNDARY, SEA ICE CONCENTRATION IS NOT UNIFORM
IN THE OBSERVATION AREA, SHIP IN ICE OR WITHIN 0.5 NAUTICAL
MILE OF ICE EDGE
0009 04 FAST ICE CLOSE OR VERY CLOSE PACK ICE TO SEAWARD OF THE ICE
BOUNDARY, SEA ICE CONCENTRATION IS NOT UNIFORM IN THE OBSERVA
TION AREA, SHIP IN ICE OR WITHIN 0.5 NAUTICAL MILE OF ICE ED
GE
0014 03 UNABLE TO REPORT, BECAUSE OF DARKNESS, LACK OF VISIBILITY, O
R BECAUSE SHIP IS MORE THAN 0.5 NAUTICAL MILE AWAY FROM ICE
EDGE
0015 01 MISSING VALUE
020035 0012 0000 01 NO ICE OF LAND ORIGIN
0001 01 1-5 ICEBERGS, NO GROWLERS OR BERGY BITS
0002 01 6-10 ICEBERGS, NO GROWLERS OR BERGY BITS
0003 01 11-20 ICEBERGS, NO GROWLERS OR BERGY BITS
0004 01 UP TO AND INCLUDING 10 GROWLERS AND BERGY BITS - NO ICEBERGS
0005 01 MORE THAN 10 GROWLERS AND BERGY BITS - NO ICEBERGS
0006 01 1-5 ICEBERGS, WITH GROWLERS AND BERGY BITS
0007 01 6-10 ICEBERGS, WITH GROWLERS AND BERGY BITS
0008 01 11-20 ICEBERGS, WITH GROWLERS AND BERGY BITS
0009 02 MORE THAN 20 ICEBERGS,WITH GROWLERS AND BERGY BITS - A MAJOR
HAZARD TO NAVIGATION
0014 02 UNABLE TO REPORT, BECAUSE OF DARKNESS, LACK OF VISIBILITY OR
BECAUSE ONLY SEA ICE IS VISIBLE
0015 01 MISSING VALUE
020036 0012 0000 01 SHIP IN OPEN WATER WITH FLOATING ICE IN SIGHT
0001 01 SHIP IN EASILY PENETRABLE ICE; CONDITIONS IMPROVING
0002 01 SHIP IN EASILY PENETRABLE ICE; CONDITIONS NOT CHANGING
0003 01 SHIP IN EASILY PENETRABLE ICE; CONDITIONS WORSENING
0004 01 SHIP IN ICE DIFFICULT TO PENETRATE; CONDITIONS IMPROVING
0005 01 SHIP IN ICE DIFFICULT TO PENETRATE; CONDITIONS NOT CHANGING
0006 02 SHIP IN ICE DIFFICULT TO PENETRATE AND CONDITIONS WORSENING.
ICE FORMING AND FLOES FREEZING TOGETHAR
0007 02 SHIP IN ICE DIFFICULT TO PENETRATE AND CONDITIONS WORSENING.
ICE UNDER SLIGHT PRESSURE
0008 02 SHIP IN ICE DIFFICULT TO PENETRATE AND CONDITIONS WORSENING.
ICE UNDER MODERATE OR SEVERE PRESSURE
0009 01 SHIP IN ICE DIFFICULT TO PENETRATE AND CONDITIONS WORSENING. SHIP BESET.
0030 01 UNABLE TO REPORT, BECAUSE OF DARKNESS OR LACK OF VISIBILITY
0031 01 MISSING VALUE
020037 0012 0000 01 NEW ICE ONLY (FRAZIL ICE, GREASE ICE, SLUSH, SHUGA)
0001 01 NILAS OR ICE RIND, LESS THAN 10 CM THICK
0002 01 YOUNG ICE(GREY ICE, GREY-WHITE ICE
0003 01 Predominantly new and/or young ice with some first-year ice
0004 01 Predominantly thin first-year ice with some new and/or young ice
0005 01 All thin first-year ice (30-70 cm thick)
0006 02 Predominantly medium first-year ice
(70-120 cm thick) and thick first-year ice (>120 cm
0007 01 All medium and thick first-year ice
0008 02 Predominantly medium and thick first-year ice with some
old ice (usually more than 2 metres thick)
0009 01 Predominantly old ice
0030 03 Unable to report, because of darkness, lack of visibility or because
only ice of land origin is visible or because ship is more than 0.5
nautical mile away from ice edge
0031 01 Missing value
020040 0009 0000 01 Drift snow ended before the hour of observation
0001 01 Intensity diminishing
0002 01 No change
0003 01 Intensity increasing
0004 01 Continues, apart from interruption lasting less than 30 minutes

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0005 01 General drift snow has become drift snow near the ground
0006 01 Drift snow near the ground has become general drift snow
0007 01 Drift snow has started again after an interruption of more than 30 minutes
0015 01 Missing value
020041 0011 0000 01 NO ICING
0001 01 LIGHT ICING
0002 01 LIGHT ICING IN CLOUD
0003 01 LIGHT ICING IN PRECIPITATION
0004 01 MODERATE ICING
0005 01 MODERATE ICING IN CLOUD
0006 01 MODERATE ICING IN PRECIPITATION
0007 01 SEVERE ICING
0008 01 SEVERE ICING IN CLOUD
0009 01 SEVERE ICING IN PRECIPITATION
0015 01 MISSING VALUE
020042 0004 0000 01 No icing
0001 01 Icing present
0002 01 Reserved
0003 01 Missing value
020045 0004 0000 01 No SLD conditions present
0001 01 SLD conditions present
0002 01 Reserved
0003 01 Missing value
020062 0021 0000 03 SURFACE OR GROUND DRY (WITHOUT CRACKS AND NO APPRECIABLE AMOUNT OF DUST OR LOOSE SAND), WITHOUT SNOW OR MEASURABLE ICE COVER
0001 02 SURFACE OF GROUND MOIST, WITHOUT SNOW OR MEASURABLE ICE COVER
0002 02 SURFACE OF GROUND WET (STANDING WATER IN SMALL OR LARGE POOLS ON SURFACE, WITHOUT SNOW OR MEASURABLE ICE COVER)
0003 01 FLOODED, WITHOUT SNOW OR MEASURABLE ICE COVER
0004 02 SURFACE OF GROUND FROZEN, WITHOUT SNOW OR MEASURABLE ICE COVER
0005 01 GLAZE ON GROUND, WITHOUT SNOW OR MEASURABLE ICE COVER
0006 02 LOOSE DRY DUST OR SAND NOT COVERING GROUND COMPLETELY, WITHOUT SNOW OR MEASURABLE ICE COVER
0007 02 THIN COVER OF LOOSE DRY DUST OR SAND COVERING GROUND COMPLETELY, WITHOUT SNOW OR MEASURABLE ICE COVER
0008 02 MODERATE OR THICK COVER OF LOOSE DRY DUST OR SAND COVERING GROUND COMPLETELY, WITHOUT SNOW OR MEASURABLE ICE COVER
0009 02 EXTREMELY DRY WITH CRACKS, WITHOUT SNOW OR MEASURABLE ICE COVER
0010 02 GROUND PREDOMINANTLY COVERED BY ICE, WITH SNOW OR MEASURABLE ICE COVER
0011 02 COMPACT OR WET SNOW (WITH OR WITHOUT ICE) COVERING LESS THAN ONE-HALF OF THE GROUND, WITH SNOW OR MEASURABLE ICE COVER
0012 03 COMPACT OR WET SNOW (WITH OR WITHOUT ICE) COVERING AT LEAST ONE-HALF OF THE GROUND BUT GROUND NOT COMPLETELY COVERED, WITH SNOW OR MEASURABLE ICE COVER
0013 02 EVEN LAYER OF COMPACT OR WET SNOW COVERING GROUND COMPLETELY, WITH SNOW OR MEASURABLE ICE COVER
0014 02 UNEVEN LAYER OF COMPACT OR WET SNOW COVERING GROUND COMPLETELY, WITH SNOW OR MEASURABLE ICE COVER
0015 02 LOOSE DRY SNOW COVERING LESS THAN ONE HALF OF THE GROUND, WITH SNOW OR MEASURABLE ICE COVER
0016 02 LOOSE DRY SNOW COVERING LESS THAN ONE-HALF OF THE GROUND (BUT NOT COMPLETELY), WITH SNOW OR MEASURABLE ICE COVER
0017 02 EVEN LAYER OF LOOSE DRY SNOW COVERING GROUND COMPLETELY, WITH SNOW OR MEASURABLE ICE COVER
0018 02 UNEVEN LAYER OF LOOSE DRY SNOW COVERING GROUND COMPLETELY, WITH SNOW OR MEASURABLE ICE COVER
0019 02 SNOW COVERING GROUND COMPLETELY; DEEP DRIFTS, WITH SNOW OR MEASURABLE ICE COVER
0031 01 MISSING VALUE
020050 0010 0000 01 Reserved
0001 01 1st low cloud
0002 01 2nd low cloud
0003 01 3rd low cloud
0004 01 1st medium cloud
0005 01 2nd medium cloud
0006 01 3rd medium cloud
0007 01 1st high cloud
0008 01 2nd high cloud
0255 01 Missing value
020056 0005 0000 01 Unknown
0001 01 Water
0002 01 Ice
0003 01 Mixed
0007 01 MISSING VALUE
020062 0021 0000 02 Surface of ground dry (without cracks and no appreciable amount of dust or loose sand)
0001 01 Surface of ground moist
0002 02 Surface of ground wet (standing water in small or large pools on surface)
0003 01 Flooded without snow
0004 01 Surface of ground frozen measurable ice
0005 01 Glaze on ground cover
0006 01 Loose dry dust or sand not covering ground completely
0007 01 Thin cover of loose dry dust or sand covering ground completely
0008 02 Moderate or thick cover of loose dry dust or sand covering ground completely
0009 01 Extremely dry with cracks
0010 01 Ground predominantly covered by ice
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0011 02 Compact or wet snow (with or without ice) covering less than
one-half of the ground
0012 02 Compact or wet snow (with or without ice) covering at least
one-half of the ground but ground not completely covered
0013 01 Even layer of compact or wet snow covering ground completely
0014 02 Uneven layer of compact or wet snow covering ground
with snow or completely measurable ice
0015 01 Loose dry snow covering less than one-half of the ground cover
0016 02 Loose dry snow covering at least one-half of the
ground (but not completely)
0017 01 Even layer of loose dry snow covering ground completely
0018 01 Uneven layer of loose dry snow covering ground completely
0019 01 Snow covering ground completely; deep drifts
0031 01 MISSING VALUE
020063 0001 0000 01 TO BE DEVELOPED
020071 0011 0000 01 No assessment          No assessment
0001 01 Less than 50 km          Less than 1 per second
0002 01 Between 50 and 200 km    Less than 1 per second
0003 01 More than 200 km        Less than 1 per second
0004 01 Less than 50 km          1 or more per second
0005 01 Between 50 and 200 km    1 or more per second
0006 01 More than 200 km        1 or more per second
0007 01 Less than 50 km          Rate so rapid number cannot be counted
0008 01 Between 50 and 200 km    Rate so rapid number cannot be counted
0009 01 More than 200 km        Rate so rapid number cannot be counted
0015 01 MISSING VALUE
020086 0008 0000 01 Clear and dry
0001 01 Damp
0005 01 Wet snow
0006 01 Slush
0007 01 Ice
0008 01 Compacted or rolled snow
0009 01 Frozen ruts or ridges
0015 01 Missing value
020090 0007 0000 01 RESERVED
0001 01 NACREOUS CLOUDS
0002 01 NOCTILUCENT CLOUDS
0003 01 CLOUDS FROM WATERFALLS
0004 01 CLOUDS FROM FIRES
0005 01 CLOUDS FROM VULCANIC ERUPTIONS
0015 01 MISSING VALUE
020151 0003 0000 01 FIRST YEAR ICE
0001 01 MULTI YEAR ICE
0007 01 MISSING
020252 0003 0000 01 NO EDGE
0001 01 EDGE PRESENT
0007 01 MISSING
020253 0007 0000 01 LAND
0001 01 VEGETATION COVERED LAND
0002 01 RESERVED
0003 01 ICE
0004 01 POSSIBLE ICE
0005 01 OCEAN
0006 01 COAST
0007 01 MISSING
021066 0011 0001 01 PROCESSING EQUIPMENT NOT WORKING
0002 01 EQUIPMENT FAILED
0003 01 PRF CODE CHANGED DURING IMAGE GENERATION
0004 01 SAMPLING WINDOW CHANGED DURING IMAGE GENERATION
0005 01 GAIN CHANGED DURING IMAGE GENERATION
0006 01 CHIRP REPLICAS EXCEEDS SPECIFIC VALUE
0007 02 INPUT DATA MEAN AND STANDARD DEVIATION OF IN-PHASE AND
QUADRATURE OUT OF RANGE
0008 01 DOPPLER CENTROID CONFIDENCE > MMCC VALUE
0009 01 DOPPLER CENTROID ABSOLUTE VALUE > PRF/2
0010 01 DOPPLER AMBIGUITY CONFIDENCE < MMCC VALUE
0011 01 OUTPUT DATA MEAN AND STANDARD DEVIATION =< MMCC VALUE
021067 0012 0001 01 NO FOREBEAM CALCULATION
0002 01 NO MIDBEAM CALCULATION
0003 01 NO AFTBEAM CALCULATION
0004 01 FOREBEAM ARCING DETECTED
0005 01 MID ARCING DETECTED
0006 01 AFTBEAM ARCING DETECTED
0007 01 ANY BEAM NOISE CONTENT ABOVE OR EQUAL TO THRESHOLD
0008 01 LAND (ANY LAND IN CELL FOOTPRINT)
0009 01 AUTONOMOUS AMBIGUITY REMOVAL NOT USED
0010 01 METEOROLOGICAL BACKGROUND NOT USED
0011 01 MINIMUM RESIDUAL EXCEEDED THRESHOLD
0012 01 FRAME CHECKSUM ERROR DETECTED
021068 0007 0001 01 STANDARD DEVIATION OF WIND SPEED OUTSIDE MMCC LIMIT
0002 01 STANDARD DEVIATION OF SIGNIFICANT WAVE HEIGHT OUTSIDE MMCC LIMIT
0003 01 STANDARD DEVIATION OF ALTITUDE OUTSIDE MMCC LIMIT
0004 01 MEAN PEAKINESS OUTSIDE MMCC LIMIT
0005 01 FRAME CHECKSUM ERROR DETECTED
0006 01 HEIGHT-TIME LOOP TIME CONSTANT CORRECTION NOT PERFORMED
0007 01 NOT ENOUGH MEASUREMENTS ( N< 10)
021069 0009 0001 01 12.0 MICROMETERS CHANNEL PRESENT IN SOURCE DATA
0002 01 11.0 MICROMETERS CHANNEL PRESENT IN SOURCE DATA
0003 01 3.7 MICROMETERS CHANNEL PRESENT IN SOURCE DATA
0004 01 1.6 MICROMETERS CHANNEL PRESENT IN SOURCE DATA
0005 02 CLOUD IDENTIFICATION USED 1.6 MICROMETERS
HISTOGRAM REFLECTANCE CLOUD TEST
0006 02 1.6 MICROMETERS HISTOGRAM REFLECTANCE CLOUD

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TEST USED DYNAMIC TRESHOLD
0007 01 SUN GLINT DETECTED BY 1.6 MICROMETERS REFLECTANCE CLOUD TEST
0008 01 3.7 MICROMETERS USED IN SEA-SURFACE TEMPERATURE RETRIEVAL
0009 02 SEA-SURFACE TEMPERATURE DERIVATION USED DAYTIME DATA
      (NIGHT-TIME IF ZERO)
021070 0024 0001 01 Cell 1:nadir-only view SST used 3.7 micron channel
0002 01 Cell 2:nadir-only view SST used 3.7 micron channel Cell numbering
0003 01 Cell 3:nadir-only view SST used 3.7 micron channel
0004 01 Cell 4:nadir-only view SST used 3.7 micron channel NW NE
0005 01 Cell 5:nadir-only view SST used 3.7 micron channel 7 8 9
0006 01 Cell 6:nadir-only view SST used 3.7 micron channel 4 5 6
0007 01 Cell 7:nadir-only view SST used 3.7 micron channel 1 2 3
0008 01 Cell 8:nadir-only view SST used 3.7 micron channel SW SE
0009 01 Cell 9:nadir-only view SST used 3.7 micron channel
0010 01 -18 Dual view SST retrieval used 3.7 micron channel (one bit per 10-arcmin cell)
0011 01 Cell 1:nadir-only view SST used 3.7 micron channel
0011 01 Cell 2:nadir-only view SST used 3.7 micron channel Cell numbering
0012 01 Cell 3:nadir-only view SST used 3.7 micron channel
0013 01 Cell 4:nadir-only view SST used 3.7 micron channel NW NE
0014 01 Cell 5:nadir-only view SST used 3.7 micron channel 7 8 9
0015 01 Cell 6:nadir-only view SST used 3.7 micron channel 4 5 6
0016 01 Cell 7:nadir-only view SST used 3.7 micron channel 1 2 3
0017 01 Cell 8:nadir-only view SST used 3.7 micron channel SW SE
0018 01 Cell 9:nadir-only view SST used 3.7 micron channel
0019 01 Nadir view contains day-time data (night if zero)
0020 01 Forward view contains day-time data (night if zero)
0021 02 Record contains contributions from instrument scans acquired when ERS platform not in
      yaw-steering mode
0022 02 Record contains contributions from instrument scans for which Product Confidence Data
      show quality is poor or unknown
0023 01 Missing value
021072 0003 0001 01 HEIGHT ERROR CORRECTION APPLIED INSTEAD OF OPEN LOOP CALIBRATION
0002 01 MICROWAVE SOUNDER USED FOR TROPOSPHERE CORRECTION
0003 01 AGC OUTPUT CORRECTION APPLIED INSTED OF OPEN LOOP CALIBRATION
021073 0008 0001 01 BLANK DATA RECORD
0002 01 TEST
0003 01 CALIBRATION (CLOSED LOOP)
0004 01 BITE
0005 01 ACQUISITION ON ICE
0006 01 ACQUISITION ON OCEAN
0007 01 TRACKING ON ICE
0008 01 TRACKING ON OCEAN
021076 0004 0000 01 LINEAR
0001 01 LOGARITHMIC (BASE E)
0002 01 LOGARITHMIC (BASE 10)
0007 01 MISSING VALUE
021109 0008 0001 01 NOT ENOUGH GOOD SIGMA-0 AVAILABLE FOR WIND RETRIEVAL
0002 01 POOR AZIMUTH DIVERSITY AMONG SIGMA0- FOR WIND RETRIEVAL
0008 01 SOME PORTION OF WIND VECTOR CELL IS OVER LAND
0009 01 SOME PORTION OF WIND VECTOR CELL IS OVER ICE
0010 01 WIND RETRIEVAL NOT PERFORMED FOR WIND VECTOR CELL
0011 01 REPORTED WIND SPEED IS GREATER THAN 30 M/S
0012 01 REPORTED WIND SPEED IS LESS THAN OR EQUAL TO 3 M/S
0017 01 MISSING VALUE
021115 0011 0001 01 SIGMA-0 MEASUREMENT IS NOT USABLE
0002 01 SIGNAL TO NOISE RATIO IS LOW
0003 01 SIGMA-0 IS NEGATIVE
0004 01 SIGMA-0 IS OUTSIDE OF ACCEPTABLE RANGE
0005 01 SCATTEROMETER PULSE QUALITY IS NOT ACCEPTABLE
0006 01 SIGMA-0 CELL LOCATION ALGORITHM DOES NOT CONVERGE
0007 01 FREQUENCY SHIFT LIES BEYOND THE RANGE OF THE X FACTOR TABLE
0008 01 SPACECRAFT TEMPERATURE IS BEYOND CALIBRATION COEFFICIENT RANGE
0009 01 NO APPLICABLE ATTITUDE RECORDS WERE FOUND FOR THIS SIGMA-0
0010 01 INTERPOLATED EPHEMERIS DATA ARE NOT ACCEPTABLE FOR THIS SIGMA-0
0017 01 MISSING VALUE
021116 0016 0001 01 Calibration/measurement pulse flag (1)
0002 01 Calibration/measurement pulse flag (2)
0003 01 Outer antenna beam
0004 01 Sigma-0 cell is aft of spacecraft
0005 01 Current mode (1)
0006 01 Current mode (2)
0007 01 Effective gate width - slice resolution (1)
0008 01 Effective gate width - slice resolution (2)
0009 01 Effective gate width - slice resolution (3)
0010 01 Low resolution mode - whole pulse data
0011 01 Scatterometer electronic subsystem B
0012 01 Alternate spin rate - 19.8 rpm
0013 01 Receiver protection on
0014 01 Slices per composite flag (1)
0015 01 Slices per composite flag (2)
0016 01 Slices per composite flag (3)
021119 0014 0000 01 RESERVED
0001 01 SASS
0002 01 SASS2
0003 01 NSCAT0
0004 01 NSCAT1
0005 01 NSCAT2
0006 01 QSCAT0
0007 01 QSCAT1
0031 01 CMOD1
0032 01 CMOD2
0033 01 CMOD3
0034 01 CMOD4
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0035 01 CMOD5
0064 01 MISSING VALUE
021196 0012 0001 01 PROCESSING EQUIPMENT NOT WORKING
0002 01 EQUIPMENT FAILED
0003 01 PRF CODE CHANGED DURING IMAGE GENERATION
0004 01 SAMPLING WINDOW CHANGED DURING IMAGE GENERATION
0005 01 GAIN CHANGED DURING IMAGE GENERATION
0006 01 CHIRP REPLICAS EXCEEDS SPECIFIED VALUE
0007 01 INPUT DATA MEAN AND STANDARD DEVIATION OF I AND Q OUT OF RANGE
0008 01 DOPPLER CENTROID CONFIDENCE > mmcc VALUE
0009 01 DOPPLER CENTROID ABSOLUTE VVALUE > PRF/2
0010 01 DOPPLER AMBIGUITY CONFIDENCE < MMCC VALUE
0011 01 OUTPUT DATA MEAN AND STANDARD DEVIATION <= MMCC VALUE
0012 01 MISSING VALUE
021199 0007 0001 01 3.7 MICRO CHANNEL USED IN ASST DERIVATION
0002 01 ASST DERIVATION USED DATETIME DATA
0003 02 COMPARISON OF ASST AGAINST PREVIOUS
EQUIVALENT PASS PERFORMED
0004 02 COMPARISON OF ASST AGAINST WEEKLY AVERAGE
OF ASST PERFORMED
0005 01
0006 02 COMPARISON OF RATE OF CHANGE OF ASST AGAINST
STATIC THRESHOLD PERFORMED
0007 01 MISSING VALUE
022056 0004 0000 01 Upwards profile
0001 01 Downwards profile
0002 01 Horizontal
0003 01 Missing value
022060 0004 0000 01 Drogue is detached
0001 01 Drogue is attached
0002 01 Drogue status unknown
0007 01 MISSING VALUE
022061 0011 0000 01 CALM (GLASSY) HEIGHT 0 M
0001 01 CALM (RIPPLED) HEIGHT 0 - 0.1 M
0002 01 SMOOTH (WAVELETS) HEIGHT 0.1 - 0.5 M
0003 01 SLIGHT HEIGHT 0.5 - 1.5 M
0004 01 MODERATE HEIGHT 1.25 - 2.5 M
0005 01 ROUGH HEIGHT 2.5 - 4 M
0006 01 VERY ROUGH HEIGHT 4 - 6 M
0007 01 HIGH HEIGHT 6 - 9 M
0008 01 VERY HIGH HEIGHT 9 -14 M
0009 01 PHENOMANAL HEIGHT OVER 14 M
0015 01 MISSING VALUE
022067 0001 0000 01 See common Code Table C3
022068 0001 0000 01 See common Code Table C4
022120 0013 0000 01 GOOD DATA
0001 01 MAXIMUM (HIGH) WATER LEVEL LIMIT EXCEEDED
0002 01 MINIMUM (LOW) WATER LEVEL LIMIT EXCEEDED
0003 01 RATE OF CHANGE LIMIT FOR WATER LEVEL EXCEEDED
0004 01 FLAT LIMIT FOR WATER LEVEL EXCEEDED
0005 01 OBSERVED MINUS PREDICTED WATER LEVEL VALUE LIMIT EXCEEDED
0006 02 OBSERVED VALUE FROM PRIMARY WATER LEVEL SENSOR MINUS
BACKUP WATER LEVEL SENSOR
0007 01 VALUE EXCEEDED SPECIFIED TOLERANCE FROM EXPECTED VALUE
0008 01 WATER LEVEL QA PARAMETER (SIGMAS AND/OR OUTLIERS) LIMITS EXCEEDED
0009 01 SEA TEMPERATURE OUTSIDE OF EXPECTED RANGE
0010 01 MULTIPLE QC CHECKS (ABOVE) FAILED
0011 01 NO AUTOMATED WATER LEVEL CHECKS PERFORMED
0031 01 MISSING VALUE
022121 0009 0000 01 OPERATIONAL
0001 01 POSSIBLE CLOGGING PROBLEM OR OTHERWISE DEGRADED WATE LEVEL DATA
0002 01 POSSIBLE DATUM SHIFT
0003 01 UNKNOWN STATUS OF WATER LEVEL SENSOR
0004 01 SUSPECTED OR KNOWN SEA TEMPERATURE SENSOR PROBLEM
0005 01 MULTIPLE POSSIBLE PROBLEMS (ABOVE)
0006 01 BAD DATA- DO NOT DISSEMINATE
0007 01 NO MANUAL WATER LEVEL CHECKS PERFORMED
0031 01 MISSING VALUE
022122 0008 0000 01 GOOD DATA FROM ALL SENSORS
0001 01 WIND DIRECTION OUTSIDE OF ALLOWABLE RANGE
0002 01 WIND SPEED OUTSIDE OF EXPECTED RANGE
0003 01 BAROMETRIC PRESSURE OUTSIDE OF EXPECTED RANGE
0004 01 AIR TEMPERATURE OUTSIDE OF EXPECTED RANGE
0005 01 MULTIPLE SENSOR FAILED QC CHECKS
0006 01 NO AUTOMATED METEOROLOGICAL DATA CHECKS PERFORMED
0031 01 MISSING VALUE
022123 0009 0000 01 OPERATIONAL
0001 01 SUSPECTED OR KNOWN PROBLEM WITH WIND SENSOR
0002 01 SUSPECTED OR KNOWN PROBLEM WITH BAROMETRIC PRESSURE SENSOR
0003 01 SUSPECTED OR KNOWN PROBLEM WITH AIR TEMPERATURE SENSOR
0004 01 UNKNOWN STATUS OF ALL SENSORS
0005 01 SUSPECTED OR KNOWN PROBLEMS WITH MULTIPLE SENSORS
0006 01 BAD DATA - DO NOT DISSEMINATE
0007 01 NO MANUAL METEOROLOGICAL DATA CHECKS PERFORMED
0031 01 MISSING VALUE
022252 0006 0000 01 AUTOMATIC QUALITY CONTROL PASSED AND NOT MANUALLY CHECKED
0001 02 AUTOMATIC QUALITY CONTROL PASSED AND MANUALLY CHECKED AND
PASSED
0002 02 AUTOMATIC QUALITY CONTROL PASSED AND MAGNOLIA CHECKED AND
DELETED
0003 01 AUTOMATIC QUALITY CONTROL FAILED AND MANUALLY NOT CHECKED
0004 02 AUTOMATIC QUALITY CONTROL FAILED AND MANUALLY CHECKED AND
FAILED

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0005 02 AUTOMATIC QUALITY CONTROL FAILED AND MANUALLY CHECKED AND
RE-INSERTED
023001 0005 0000 01 RESERVED
0001 01 ARTICLES 1 AND 2
0002 01 ARTICLE 3
0003 01 ARTICLE 5.2
0007 01 MISSING VALUE
023002 0016 0000 01 reserved
0001 01 NUCLEAR REACTOR ON GROUND
0002 01 NUCLEAR REACTOR ON SEA
0003 01 NUCLEAR REACTOR IN SPACE
0004 01 NUCLEAR FULE FACILITY
0005 01 RADIOACTIVE WASTE MANAGEMENT FACITILY
0006 01 TRANSPORT OF NUCLEAR FUEL OR RADIOACTIVE WASTE
0007 01 STORAGE OF NUCLEAR FUEL OR RADIOACTIVE WASTE
0008 01 MANUFACTURE OF RADIO-ISOTOPES
0009 01 USE OF RADIO-ISOTOPES
0010 01 STORAGE OF RADIO-ISOTOPES
0011 01 DISPOSAL OF RADIO-ISOTOPES
0012 01 TRANSPORT OF RADIO-ISOTOPES
0013 01 USE OF RADIO-ISOTOPES FOR POWER GENERATION
0030 01 OTHER
0031 01 MISSING VALUE
023003 0008 0000 01 NO RELEASE
0001 01 RELEASE TO ATMOSPHERE
0002 01 RELEASE TO WATER
0003 01 RELEASE TO BOTH ATMOSPHERE AND WATER
0004 01 EXPECTED RELEASE TO ATMOSPHERE
0005 01 EXPECTED RELEASE TO WATER
0006 01 EXPECTED RELEASE TO BOTH ATMOSPHERE AND WATER
0007 01 MISSING VALUE
023004 0006 0000 01 NO COUNTERMEASURE
0001 01 EVACUATION
0002 01 SHELTERING
0003 01 PROPHILAXIS
0004 01 WATER
0007 01 MISSING VALUE
023005 0004 0000 01 INCIDENT STAT DOES NOT UNDERSTAND WHAT HAPPENED
0001 01 INCIDENT STATE KNOWS THE CAUSE OF THE INCIDENT
0002 01 RESERVED
0003 01 MISSING VALUE
023006 0008 0000 01 NO IMPROVEMENT
0001 01 UNSTABLE
0002 01 NO DETERIORATION
0003 01 IMPROVING
0004 01 STABLE
0005 01 DETERIORATING
0006 01 RESERVED
0007 01 MISSING VALUE
023007 0005 0000 01 NO RELEASE
0001 01 RELEASE HAS STOPPED
0002 01 RELEASE
0003 01 RELEASE IS CONTINUING
0007 01 MISSING VALUE
023008 0004 0000 01 GASEUS
0001 01 PARTICULATE
0002 01 MIXTURE OF GASEUS AND PARTICULATE
0003 01 MISSING VALUE
023009 0004 0000 01 GASEUS
0001 01 PARTICULATE
0002 01 MIXTURE OF GASEUS AND PARTICULATE
0003 01 MISSING VALUE
023016 0004 0000 01 NO SIGNIFICANT TOXIC HEALTH EFFECT
0001 01 SIGNIFICANT CHEMICAL TOXIC HEALTH EFFECT POSSIBLE
0002 01 RESERVED
0003 01 MISSING VALUE
023018 0006 0000 01 RELEASE NO LONGER OCCURRING
0001 01 RELEASE STILL OCCURRING
0002 01 RELEASE EXPECTED TO INCREASE IN NEXT SIX HOURS
0003 01 RELEASE EXPECTED TO REMAIN CONSTANT IN NEXT SIX HOURS
0004 01 RELEASE EXPECTED TO DECREASE IN NEXT SIX HOURS
0007 01 MISSING VALUE
023031 0004 0000 01 PLUME WILL NOT ENCOUNTER RAIN IN INCIDENT STATE
0001 01 PLUME WILL ENCOUNTER RAIN IN INCIDENT STATE
0002 01 RESERVED
0003 01 MISSING VALUE
023032 0004 0000 01 NO SIGNIFICANT CHANGE EXPECTED WITHIN NEXT SIX HOURS
0001 01 ANTICIPATED SIGNIFICANT CHANGE EXPECTED WITHIN NEXT SIX HOURS
0002 01 RESERVED
0003 01 MISSING VALUE
024003 0005 0000 01 NOBLE GASES
0001 01 IODINES
0002 01 CAESIUM
0003 01 TRANSURANICS
0031 01 MISSING VALUE
025004 0004 0000 01 INCOHERENT
0001 01 COHERENT (DOPPLER)
0002 01 RESERVED
0003 01 MISSING VALUE
025005 0004 0000 01 LOGATITHM - 2.5 DB
0001 01 LINEAR
0002 01 SPECIAL
0003 01 MISSING VALUE
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025006 0005 0000 01 ZH TO R CONVERSION
0001 01 (ZH, ZDR) TO (NO.DO) TO R
0002 01 (Z(F1),Z(F2)) TO ATTENUATION TO R
0006 01 OTHER
0007 01 MISSING VALUE
025009 0004 0001 01 NONE
0002 01 CALIBRATION TARGET OR SIGNAL
0003 01 AGAINST RAINGAGES
0004 01 AGAINST OTHER INSTRUMENTS (DISTROMETER-ATTENUATION)
025010 0008 0000 01 NONE
0001 01 MAP
0002 01 INSERTION OF HIGHER ELEVATION DATA AND MAP
0003 01 ANALYSIS OF FLUCTUATING LOGARITHM SIGNAL (CLUTTER DETECTION)
0004 01 EXTRACTION OF FLUCTUATING PART OF LINEAR SIGNAL (CLUTTER SUPPRESSION)
0005 01 CLUTTER SUPPRESSION DOPPLER
0006 01 MULTIPARAMETER ANALYSIS
0015 01 MISSING VALUE
025011 0004 0000 01 NONE
0001 01 MAP OF CORRECTION FACTORS
0002 01 INTERPOLATION (AZIMUTH OR ELEVATION)
0003 01 MISSING VALUE
025012 0004 0000 01 HARDWARE
0001 01 SOFTWARE
0002 01 HARDWARE AND SOFTWARE
0003 01 MISSING VALUE
025013 0001 0001 01 BRIGHT BAND CORRECTION
025015 0001 0001 01 RADOME ATTENUATION CORRECTION
025017 0001 0001 01 PRECIPITATION ATTENUATION CORRECTION
025020 0004 0000 01 FFT (FAST FOURIER TRANSFORM)
0001 01 PPP (PULSE PAIR PROCESSING)
0002 01 VPC (VECTOR-PHASE CHANGE)
0003 01 MISSING VALUE
025021 0005 0001 01 SIMPLE AVERAGE
0002 01 CONSENSUS AVERAGE
0003 01 MEDIAN CHECK
0004 01 VERTICAL CONSISTENCY CHECK
0005 01 OTHER
025030 0004 0000 01 RUNNING MEAN SEA-SURFACE TEMPERATURE NOT USED BECAUSE USAGE CRITERIA NOT MET
0001 01 RUNNING MEAN SEA-SURFACE TEMPERATURE NOT USED BECAUSE DATA NOT AVAILABLE
0002 01 RUNNING MEAN SEA-SURFACE TEMPERATURE USED AS PREDICTOR
0003 01 MISSING VALUE
025032 0004 0000 01 RESERVED
0001 01 DATA FROM LOW MODE
0002 01 DATA FROM HIGH MODE
0003 01 MISSING VALUE
025033 0004 0000 01 WIND PROFILER OPERATING IN SUBMODE A
0001 01 WIND PROFILER OPERATING IN SUBMODE B
0002 01 RESERVED
0003 01 MISSING VALUE
025034 0004 0001 01 TEST A PERFORMED AND FAILED
0002 01 TEST B PERFORMED AND FAILED
0003 01 TEST RESULTS INCONCLUSIVE
025036 0004 0000 02 Network of several direction-finders operating on
the same individual atmospheric
0001 02 Network of several arrival-time stations operating on
the same individual atmospheric
0006 01 Single station range bearing technique
0015 01 Missing value
025040 0010 0000 01 NON-SPECIFIC MODE
0001 01 FIRST GUESS DATA
0002 01 CLOUD DATA
0003 01 AVERAGE VECTOR DATA
0004 01 PRIMARY DATA
0005 01 GUESS DATA
0006 01 VECTOR DATA
0007 01 TRACER DATA; THE IMAGE
0008 01 TRACER DATA TO NEXT IMAGE
0015 01 MISSING VALUE
025041 0004 0000 01 DIRECTION ORIGINALLY REPORTED IN TRUE DEGREES
0001 01 DIRECTION ORIGINALLY REPORTED USING CODE TABLE 0700, FM 13
0002 01 RESERVED
0003 01 MISSING VALUE
025042 0004 0000 01 SPEED ORIGINALLY REPORTED IN METERS PER SECOND
0001 01 SPEED ORIGINALLY REPORTED USING CODE TABLE 2251, FM 13
0002 01 RESERVED
0003 01 MISSING VALUE
025045 0020 0001 01 CHANNEL 1 PRESENT - (SET TO 1 PRESENT)
0002 01 CHANNEL 2 PRESENT - (SET TO 1 PRESENT)
0003 01 CHANNEL 3 PRESENT - (SET TO 1 PRESENT)
0004 01 CHANNEL 4 PRESENT - (SET TO 1 PRESENT)
0005 01 CHANNEL 5 PRESENT - (SET TO 1 PRESENT)
0006 01 CHANNEL 6 PRESENT - (SET TO 1 PRESENT)
0007 01 CHANNEL 7 PRESENT - (SET TO 1 PRESENT)
0008 01 CHANNEL 8 PRESENT - (SET TO 1 PRESENT)
0009 01 CHANNEL 9 PRESENT - (SET TO 1 PRESENT)
0010 01 CHANNEL 10 PRESENT - (SET TO 1 PRESENT)
0011 01 CHANNEL 11 PRESENT - (SET TO 1 PRESENT)
0012 01 CHANNEL 12 PRESENT - (SET TO 1 PRESENT)
0013 01 CHANNEL 13 PRESENT - (SET TO 1 PRESENT)
0014 01 CHANNEL 14 PRESENT - (SET TO 1 PRESENT)
0015 01 CHANNEL 15 PRESENT - (SET TO 1 PRESENT)
0016 01 CHANNEL 16 PRESENT - (SET TO 1 PRESENT)
0017 01 CHANNEL 17 PRESENT - (SET TO 1 PRESENT)

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0018 01 CHANNEL 18 PRESENT - (SET TO 1 PRESENT)
0019 01 CHANNEL 19 PRESENT - (SET TO 1 PRESENT)
0020 01 CHANNEL 20 PRESENT - (SET TO 1 PRESENT)
025046 0004 0001 01 CHANNEL 1 PRESENT - (SET TO 1 PRESENT)
0002 01 CHANNEL 2 PRESENT - (SET TO 1 PRESENT)
0003 01 CHANNEL 3 PRESENT - (SET TO 1 PRESENT)
0004 01 CHANNEL 4 PRESENT - (SET TO 1 PRESENT)
025047 0003 0001 01 CHANNEL 1 PRESENT - (SET TO 1 PRESENT)
0002 01 CHANNEL 2 PRESENT - (SET TO 1 PRESENT)
0003 01 CHANNEL 3 PRESENT - (SET TO 1 PRESENT)
025048 0015 0001 01 CHANNEL 1 PRESENT - (SET TO 1 PRESENT)
0002 01 CHANNEL 2 PRESENT - (SET TO 1 PRESENT)
0003 01 CHANNEL 3 PRESENT - (SET TO 1 PRESENT)
0004 01 CHANNEL 4 PRESENT - (SET TO 1 PRESENT)
0005 01 CHANNEL 5 PRESENT - (SET TO 1 PRESENT)
0006 01 CHANNEL 6 PRESENT - (SET TO 1 PRESENT)
0007 01 CHANNEL 7 PRESENT - (SET TO 1 PRESENT)
0008 01 CHANNEL 8 PRESENT - (SET TO 1 PRESENT)
0009 01 CHANNEL 9 PRESENT - (SET TO 1 PRESENT)
0010 01 CHANNEL 10 PRESENT - (SET TO 1 PRESENT)
0011 01 CHANNEL 11 PRESENT - (SET TO 1 PRESENT)
0012 01 CHANNEL 12 PRESENT - (SET TO 1 PRESENT)
0013 01 CHANNEL 13 PRESENT - (SET TO 1 PRESENT)
0014 01 CHANNEL 14 PRESENT - (SET TO 1 PRESENT)
0015 01 CHANNEL 15 PRESENT - (SET TO 1 PRESENT)
025049 0005 0001 01 CHANNEL 1 PRESENT - (SET TO 1 PRESENT)
0002 01 CHANNEL 2 PRESENT - (SET TO 1 PRESENT)
0003 01 CHANNEL 3 PRESENT - (SET TO 1 PRESENT)
0004 01 CHANNEL 4 PRESENT - (SET TO 1 PRESENT)
0005 01 CHANNEL 5 PRESENT - (SET TO 1 PRESENT)
025051 0006 0001 01 CHANNEL 1 PRESENT - (SET TO 1 PRESENT)
0002 01 CHANNEL 2 PRESENT - (SET TO 1 PRESENT)
0003 01 CHANNEL 3 PRESENT - (SET TO 1 PRESENT)
0004 01 CHANNEL 4 PRESENT - (SET TO 1 PRESENT)
0005 01 CHANNEL 5 PRESENT - (SET TO 1 PRESENT)
0006 01 CHANNEL 6 PRESENT - (SET TO 1 PRESENT)
025053 0006 0001 01 GOOD
0002 01 REDUNDANT
0003 01 QUESTIONABLE
0004 01 BAD
0005 01 EXPERIMENTAL
0006 01 PRECIPITATING
025069 0007 0001 01 Smoothed
0002 01 Baseline adjusted
0003 01 Normalized time interval
0004 01 Outlier checked
0005 01 Plausibility checked
0006 01 Consistency checked
0007 01 Interpolated
025086 0004 0000 01 Depths are not corrected
0001 01 Depths are corrected
0002 01 Reserved
0003 01 Missing value
025093 0003 0001 01 No correction
0002 01 Vertical velocity correction
0007 01 All corrections
025095 0001 0001 02 Altimeter operating (set to 0 if nominal, set to
    backup)
025096 0004 0001 01 Mode indicator (0 if Mode 2, 1 if Mode 1)
0002 03 Mode 1 Calibration sequence indicator (0 if
    normal data taking either Mode 1 or 2, 1 if Mode 1 Calibration sequence)
    Bits 3 and 4 indicate active 23.8 GHz channel
0003 01 Channel 2 (0 if on, 1 if off)
0004 01 Channel 3 (0 if on, 1 if off)
025097 0011 0000 01 Ranges between 0 and 30 cm
0001 01 Ranges between 30 and 60 cm
0002 01 Ranges between 60 and 90 cm
0003 01 Ranges between 90 and 120 cm
0004 01 Ranges between 120 and 150 cm
0005 01 Ranges between 150 and 180 cm
0006 01 Ranges between 180 and 210 cm
0007 01 Ranges between 210 and 240 cm
0008 01 Ranges between 240 and 270 cm
0009 01 Ranges larger than 270 cm
0015 01 Missing value
025110 0006 0001 02 Raw data analysis used for raw data correction.
    Correction done using default parameters
0002 01 Raw data analysis used for raw data correction.
    Correction done using raw data analysis results
0003 01 Antenna elevation pattern correction applied
0004 01 Nominal chirp replica used
0005 01 Reconstructed chirp used
0006 01 Slant range to ground range conversion applied
025120 0004 0000 02 Percentage of DSRs free of processing errors during Level
    2 processing is greater than the acceptable threshold
0001 02 Percentage of DSRs free of processing errors during Level
    2 processing is less than the acceptable threshold
0002 01 Reserved
0003 01 Missing value
025122 0004 0000 01 Hardware configuration for RF is A
0001 01 Hardware configuration for RF is B
0002 01 Reserved
0003 01 Missing value
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025123 0004 0000 01 Hardware configuration for HPA is A
           0001 01 Hardware configuration for HPA is B
           0002 01 Reserved
           0003 01 Missing value
025124 0004 0000 01 Percentage of DSRs free of processing errors during Level
           2 processing is greater than the acceptable threshold
           0001 02 Percentage of DSRs free of processing errors during Level
           2 processing is less than the acceptable threshold
           0002 01 Reserved
           0003 01 Missing value
026010 0025 0001 01 0100 included
           0002 01 0200 included
           0003 01 0300 included
           0004 01 0400 included
           0005 01 0500 included
           0006 01 0600 included
           0007 01 0700 included
           0008 01 0800 included
           0009 01 0900 included
           0010 01 1000 included
           0011 01 1100 included
           0012 01 1200 included
           0013 01 1300 included
           0014 01 1400 included
           0015 01 1500 included
           0016 01 1600 included
           0017 01 1700 included
           0018 01 1800 included
           0019 01 1900 included
           0020 01 2000 included
           0021 01 2100 included
           0022 01 2200 included
           0023 01 2300 included
           0024 01 2400 included
           0025 01 Unknown mixture of hours
029001 0006 0000 01 GNOMONIC PROJECTION
           0001 01 POLAR STEREOGRAPHIC PROJECTION
           0002 01 LAMBERT'S CONFORMAL CONIC PROJECTION
           0003 01 MERCATOR'S PROJECTION
           0004 01 SCANNING CONE (RADAR)
           0007 01 MISSING VALUE
029002 0004 0000 01 CARTESIAN
           0001 01 POLAR
           0002 01 OTHER
           0007 01 MISSING VALUE
030031 0013 0000 01 PPI
           0001 01 COMPOSITE
           0002 01 CAPPi
           0003 01 VERTICAL SECTION
           0004 01 ALPHANUMERIC DATA
           0005 01 MAP OF SUBJECT CLUTTER
           0006 01 MAP
           0007 01 TEST PICTURE
           0008 01 COMMENTS
           0009 01 MAP OF GROUND OCCULTATION
           0010 01 MAP OF RADAR BEAM HEIGHT
           0014 01 OTHER
           0015 01 MISSING VALUE
030032 0009 0001 01 MAP
           0002 01 SATELLITE IR
           0003 01 SATELLITE VIS
           0004 01 SATELLITE WV
           0005 01 SATELLITE MULTISPECTRAL
           0006 01 SYNOPTIC OBSERVATIONS
           0007 01 FORECAST PARAMETERS
           0008 01 LIGHTNING DATA
           0015 01 OTHER DATA
031021 0004 0001 01 1 BIT INDICATOR OF QUALITY, 0= GOOD; 1=SUSPECT OR BAD
           0002 02 2 BIT INDICATOR OF QUALITY, 0= GOOD; 1= SLIGHTLY SUSPECTED;
           2= HIGHLY SUSPECTED; 3=BAD
           0007 01 PERCENTAGE CONFIDENCE
           0063 01 MISSING VALUE
033002 0004 0000 01 DATA NOT SUSPECT
           0001 01 DATA SUSPECT
           0002 01 RESERVED
           0003 01 MISSING VALUE
033003 0005 0000 01 DATA NOT SUSPECT
           0001 01 DATA SLIGHTLY SUSPECT
           0002 01 DATA HIGHLY SUSPECT
           0003 01 DATA CONSIDERED UNFIT FOR USE
           0007 01 MISSING VALUE
033005 0023 0001 01 No automated meteorological data checks performed
           0002 01 Pressure data suspect
           0003 01 Wind data suspect
           0004 01 Dry-bulb temperature data suspect
           0005 01 Wet-bulb temperature data suspect
           0006 01 Humidity data suspect
           0007 01 Ground temperature data suspect
           0008 01 Soil temperature (depth 1) data suspect
           0009 01 Soil temperature (depth 2) data suspect
           0010 01 Soil temperature (depth 3) data suspect
           0011 01 Soil temperature (depth 4) data suspect
           0012 01 Soil temperature (depth 5) data suspect

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0013 01 Cloud data suspect
0014 01 Visibility data suspect
0015 01 Present weather data suspect
0016 01 Lightning data suspect
0017 01 Ice deposit data suspect
0018 01 Precipitation data suspect
0019 01 State of ground data suspect
0020 01 Snow data suspect
0021 01 Water content data suspect
0022 01 Evaporation/evapotranspiration data suspect
0023 01 Sunshine data suspect
033006 0005 0000 01 Self-check OK
0001 01 At least one Warning active, no Alarms
0002 01 At least one Alarm active
0003 01 Sensor failure
0007 01 Missing value
033015 0016 0000 01 Passed all checks
0001 01 Missing-data check
0002 01 Descending/reascending balloon check
0003 01 Data plausibility check (above limits)
0004 01 Data plausibility check (below limits)
0005 01 Superadiabatic lapse rate check
0006 01 Limiting angles check
0007 01 Ascension rate check
0008 01 Excessive change from previous flight
0009 01 Balloon overhead check
0010 01 Wind speed check
0011 01 Wind direction check
0012 01 Dependency check
0013 01 Data valid but modified
0014 01 Data outlier check
0063 01 Missing data
033020 0008 0000 01 GOOD
0001 01 INCONSISTENT
0002 01 DOUBTFUL
0003 01 WRONG
0004 01 NOT CHECKED
0005 01 HAS BEEN CHECKED
0006 01 RESERVED
0007 01 MISSING VALUE
033021 0004 0000 01 WITHIN LIMITS
0001 01 OUTSIDE LIMITS
0002 01 RESERVED
0003 01 MISSING VALUE
033022 0004 0000 01 GOOD (SEVERAL IDENTICAL REPORTS HAVE BEEN RECEIVED)
0001 01 DUBIOUS (NO IDENTICAL REPORT HAVE BEEN RECEIVED)
0002 01 RESERVED
0003 01 MISSING VALUE
033023 0004 0000 01 RELIABLE (LOCATION WAS MADE OVER TWO SATELLITE PASSES)
0001 01 LATEST KNOWN (NO LOCATION OVER CORRESPONDING PASS)
0002 01 DUBIOUS
0003 01 MISSING VALUE
033024 0010 0000 01 RESERVED
0001 01 EXCELLENT - WITHIN 3 METRES
0002 01 GOOD - WITHIN 10 METRES
0003 01 FAIR - WITHIN 20 METRES
0004 01 POOR - MORE THAN 20 METRES
0005 01 EXCELLENT -WITHIN 10 FEET
0006 01 GOOD WITHIN-30 FEET
0007 01 FAIR WITHIN 60 FEET
0008 01 POOR - MORE THAN 60 FEET
0015 01 MISSING VALUE
033025 0005 0000 01 TIME INTERPOLATED, LATITUDE AND LONGITUDE REPORTED
0001 01 TIME REPORTED, LATITUDE AND LONGITUDE INTERPOLATED
0002 01 TIME, LATITUDE AND LONGITUDE INTERPOLATED
0003 01 TIME, LATITUDE AND LONGITUDE REPORTED
0007 01 MISSING VALUE
033026 0010 0000 01 NORMAL OPERATIONS - MEASUREMENT MODE
0001 01 NORMAL OPERATIONS - NON-MEASUREMENT MODE
0002 01 SMALL RH
0003 01 HUMIDITY ELEMENT IS WET
0004 01 HUMIDITY ELEMENT IS CONTAMINATED
0005 01 HEATER FAIL
0006 01 HEATER FAIL AND WET/CONTAMINATED HUMIDITY ELEMENT
0007 01 SINGLE VALIDITY BAD
0008 01 NUMERIC ERROR
0063 01 MISSING VALUE
033027 0005 0000 01 RADIUS >= 1500 M
0001 01 500 M <= RADIUS < 1500 M
0002 01 250 M <= RADIUS < 500 M
0003 01 RADIUS < 250 M
0007 01 MISSING VALUE
033030 0007 0001 01 Do not use scan for product generation
0002 01 Time sequence error detected with this scan
0003 01 Data gap precedes this scan
0004 01 No calibration
0005 01 No earth location
0006 01 First good time following a clock update
0007 01 Instrument status changed with this scan
033031 0021 0001 01 Time field is bad but can probably be inferred from the previous good time
0002 01 Time field is bad and can't be inferred from the previous good time
0003 04 This record starts a sequence that is inconsistent with
previous times (i.e. there is a time discontinuity). This may or may
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not be associated with a spacecraft clock update (see scan line
status flags for ATOVS)
0004 02 Start of a sequence that apparently repeats scan
times that have been previously accepted
0005 01 Scan line was not calibrated because of bad time
0006 03 Scan line was calibrated using fewer than the preferred
number of scan lines because of proximaty to start or
end of data or to a data gap
0007 01 Scan line was not calibrated because of bad or insufficient PRT data
0008 01 Scan line was calibrated but with marginal PRT data
0009 01 Some uncalibrated channels on this scan
0010 01 Uncalibrated due to instrument mode
0011 01 Questionable calibration because of antenna position error of space view
0012 01 Questionable calibration because of antenna position error of black body
0013 01 Not earth located because of bad time
0014 03 Earth location questionable because of
questionable time code (see time problem
code bits)
0015 02 Earth location questionable - only marginal agreement
with reasonableness check
0016 01 Earth location questionable - fails reasonableness check
0017 01 Earth location questionable because of antenna position check
0018 01 Scan line calibration cold black body
0019 01 Scan line calibration warm black body
0020 01 Scan line calibration space view
0021 01 Earth view
033032 0006 0001 01 No good blackbody counts for scan line
0002 01 No good space view counts for this line
0003 01 No good PRTs for this line
0004 01 Some bad blackbody view counts for this line
0005 01 Some bad space view counts for this line
0006 01 Some bad PRT temps on this line
033033 0023 0001 01 Set if secondary calibration used
0002 02 brightness temperature in channel 1 is physically unreasonable or has not
been calculated due to calibration problems
0003 02 brightness temperature in channel 2 is physically unreasonable or has not
been calculated due to calibration problems
0004 02 brightness temperature in channel 3 is physically unreasonable or has not
been calculated due to calibration problems
0005 02 brightness temperature in channel 4 is physically unreasonable or has not
been calculated due to calibration problems
0006 02 brightness temperature in channel 5 is physically unreasonable or has not
been calculated due to calibration problems
0007 02 brightness temperature in channel 6 is physically unreasonable or has not
been calculated due to calibration problems
0008 02 brightness temperature in channel 7 is physically unreasonable or has not
been calculated due to calibration problems
0009 02 brightness temperature in channel 8 is physically unreasonable or has not
been calculated due to calibration problems
0010 02 brightness temperature in channel 9 is physically unreasonable or has not
been calculated due to calibration problems
0011 02 brightness temperature in channel 10 is physically unreasonable or has not
been calculated due to calibration problems
0012 02 brightness temperature in channel 11 is physically unreasonable or has not
been calculated due to calibration problems
0013 02 brightness temperature in channel 12 is physically unreasonable or has not
been calculated due to calibration problems
0014 02 brightness temperature in channel 13 is physically unreasonable or has not
been calculated due to calibration problems
0015 02 brightness temperature in channel 14 is physically unreasonable or has not
been calculated due to calibration problems
0016 02 brightness temperature in channel 15 is physically unreasonable or has not
been calculated due to calibration problems
0017 02 brightness temperature in channel 16 is physically unreasonable or has not
been calculated due to calibration problems
0018 02 brightness temperature in channel 17 is physically unreasonable or has not
been calculated due to calibration problems
0019 02 brightness temperature in channel 18 is physically unreasonable or has not
been calculated due to calibration problems
0020 02 brightness temperature in channel 19 is physically unreasonable or has not
been calculated due to calibration problems
0021 02 brightness temperature in channel 20 is physically unreasonable or has not
been calculated due to calibration problems
0022 01 Set if all channels are missing
0023 01 Suspect
033035 0010 0000 01 Automatic quality control passed and not manually checked
0001 01 Automatic quality control passed and manually checked and passed
0002 01 Automatic quality control passed and manually checked and deleted
0003 01 Automatic quality control failed and manually not checked
0004 01 Automatic quality control failed and manually checked and failed
0005 01 Automatic quality control failed and manually checked and re-inserted
0006 01 Automatic quality control flagged data as questionable and not manually checked
0007 02 Automatic quality control flagged data as questionable
and manually checked and failed
0008 01 Manually checked and failed
0015 01 Missing value
033037 0020 0001 01 U departure from guess
0002 01 V departure from guess
0003 01 U & V departure from guess
0004 01 U acceleration
0005 01 V acceleration
0006 01 U & V acceleration
0007 01 Possible land feature

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0008 01 U acceleration and possible land feature
0009 01 V acceleration and possible land feature
0010 01 U & V acceleration and possible land feature
0011 01 Bad wind guess
0012 01 Correlation failure
0013 01 Search box off edge of area
0014 01 Target box off edge of area
0015 01 Pixel brightness out of bounds (noisy line)
0016 01 Target outside of lat/long box
0017 01 Target outside of pressure min/max
0018 01 Autoeditor flagged slow vector
0020 01 Autoeditor flagged vectors
033038 0009 0001 01 Total Zenith Delay quality is considered poor
0002 01 GALILEO satellites used
0003 01 GLONASS satellites used
0004 01 GPS satellites used
0005 01 Meteorological data applied
0006 01 Atmospheric loading correction applied
0007 01 Ocean tide loading applied
0008 01 Climate quality data processing
0009 01 Near-real time data processing
033039 0009 0001 01 Non-nominal quality
0002 01 Offline product
0003 01 Ascending occultation flag
0004 01 Excess Phase processing non-nominal
0005 01 Bending Angle processing non-nominal
0006 01 Refractivity processing non-nominal
0007 01 Meteorological processing non-nominal
0014 01 Background profile non-nominal
0015 01 Background (i.e. not retrieved) profile present
033041 0004 0000 01 The following value is the true value
0001 02 The following value is higher than the true value
      (the measurement hit the lower limit of the instrument)
0002 02 The following value is lower than the true value
      (the measurement hit the higher limit of the instrument)
0003 01 Missing value
033042 0005 0000 01 Exclusive lower limit (>)
0001 01 Inclusive lower limit (>=)
0002 01 Exclusive upper limit (<)
0003 01 Inclusive upper limit (<=)
0007 01 Missing value
033043 0004 0001 02 Sea MDS. Nadir only SST retrieval used 3.7 Micron
      channel. Land MDS reserved
0002 02 Sea MDS. Dual view SST retrieval used 3.7 Micron
      channel. Land MDS reserved.
0003 01 Nadir view contains day time data
0004 01 Forward view contains day time data
033044 0014 0001 01 Input data mean outside nominal range flag
0002 01 Input data standard deviation outside nominal range flag
0003 01 Number of input data gaps > threshold value
0004 01 Percentage of missing lines > threshold value
0005 01 Doppler centroid uncertain. Confidence measure < specific value
0006 01 Doppler ambiguity estimate uncertain. Confidence measure < specific value
0007 01 Output data mean outside nominal range flag
0008 01 Output data standard deviation outside nominal range flag
0009 01 Chirp reconstruction failed or is of low quality flag
0010 01 Data set missing
0011 01 Invalid downlink parameters
0012 02 Azimuth cut-off iteration count. The azimuth
      cut-off fit did not converge within a minimum number of iterations
0013 02 Azimuth cut-off fit did not converge within a minimum
      number of iterations
0014 03 Phase information confidence measure. The imaginary spectral
      peak is less than a minimum threshold, or the zero lag shift
      is greater than a minimum threshold
033047 0026 0001 01 Error detected and attempts to recover made
0002 01 Anomaly in on-board data handling (OBDH) value detected
0003 01 Anomaly in Ultra Stable Oscillator Processing (USOP) value detected
0004 01 Errors detected by on-board computer
0005 01 Automatic gain control (AGC) out of range
0006 01 Rx delay fault. Rx distance out of range
0007 01 Wave form samples fault identifier. Error
0012 01 Brightness temperature (channel 1) out of range
0013 01 Brightness temperature (channel 2) out of range
0014 01 Reserved
0015 01 Ku Ocean retracking error
0016 01 S Ocean retracking error
0017 01 Ku Ice 1 retracking error
0018 01 S Ice 1 retracking error
0019 01 Ku Ice 2 retracking error
0020 01 S Ice 2 retracking error
0021 01 Ku Sea Ice retracking error
0022 01 Arithmetic fault error
0023 01 Meteo data state. No map
0024 01 Meteo data state. 1 map
0025 01 Meteo data state 2 maps degraded
0026 01 Meteo data state 2 maps nominal
0027 01 Orbit propagator status for propagation mode, several errors
0028 01 Orbit propagator status for propagation mode, warning detected
0029 01 Orbit propagator status for initialisation mode, several errors
0030 01 Orbit propagator status for initialisation mode, warning detected
033048 0004 0000 01 Inversion successful
0001 01 Inversion not successful
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0002 01 Reserved
0003 01 Missing value
033049 0004 0000 01 External wind direction used during inversion
0001 01 External wind direction not used during inversion
0002 01 Reserved
0003 01 Missing value
033050 0008 0000 01 Unqualified
0001 01 Correct value (all checks passed)
0002 01 Probably good but value inconsistent with statistics (differ from climatology)
0003 01 Probably bad (spike, gradient, "E if other tests passed)
0004 02 Bad value, Impossible value (out of scale, vertical
      instability, constant profile)
0005 01 Value modified during quality control
0008 01 Interpolated value
0015 01 Missing value
033052 0020 0001 01 Data block 1 invalid (S band)
0002 01 Data block 2 invalid (S band)
0003 01 Data block 3 invalid (S band)
0004 01 Data block 4 invalid (S band)
0005 01 Data block 5 invalid (S band)
0006 01 Data block 6 invalid (S band)
0007 01 Data block 7 invalid (S band)
0008 01 Data block 8 invalid (S band)
0009 01 Data block 9 invalid (S band)
0010 01 Data block 10 invalid (S band)
0011 01 Data block 11 invalid (S band)
0012 01 Data block 12 invalid (S band)
0013 01 Data block 13 invalid (S band)
0014 01 Data block 14 invalid (S band)
0015 01 Data block 15 invalid (S band)
0016 01 Data block 16 invalid (S band)
0017 01 Data block 17 invalid (S band)
0018 01 Data block 18 invalid (S band)
0019 01 Data block 19 invalid (S band)
0020 01 Data block 20 invalid (S band)
033053 0020 0001 01 Data block 1 invalid (Ku band)
0002 01 Data block 2 invalid (Ku band)
0003 01 Data block 3 invalid (Ku band)
0004 01 Data block 4 invalid (Ku band)
0005 01 Data block 5 invalid (Ku band)
0006 01 Data block 6 invalid (Ku band)
0007 01 Data block 7 invalid (Ku band)
0008 01 Data block 8 invalid (Ku band)
0009 01 Data block 9 invalid (Ku band)
0010 01 Data block 10 invalid (Ku band)
0011 01 Data block 11 invalid (Ku band)
0012 01 Data block 12 invalid (Ku band)
0013 01 Data block 13 invalid (Ku band)
0014 01 Data block 14 invalid (Ku band)
0015 01 Data block 15 invalid (Ku band)
0016 01 Data block 16 invalid (Ku band)
0017 01 Data block 17 invalid (Ku band)
0018 01 Data block 18 invalid (Ku band)
0019 01 Data block 19 invalid (Ku band)
0020 01 Data block 20 invalid (Ku band)
033060 0004 0000 01 PARAMETER=GOOD
0001 01 PARAMETER=BAD
0002 01 PARAMETER=RESERVED
0003 01 MISSING
033195 0004 0000 01 DEALIASING NOT USED
0001 01 DEALIASING USED
0002 01 RESERVED
0003 01 MISSING
033205 0016 0000 01 DATUM CORRECT
0001 01 DATUM PROBABLY CORRECT
0002 01 DATUM PROBABLY INCORRECT
0003 01 DATUM INCORRECT
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 MISSING VALUE
033206 0016 0000 01 DATUM CORRECT
0001 01 DATUM PROBABLY CORRECT
0002 01 DATUM PROBABLY INCORRECT
0003 01 DATUM INCORRECT
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED

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0014 01 NOT DEFINED
0015 01 MISSING VALUE
033207 0016 0000 01 DATUM CORRECT
0001 01 DATUM PROBABLY CORRECT
0002 01 DATUM PROBABLY INCORRECT
0003 01 DATUM INCORRECT
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 MISSING VALUE
033208 0016 0000 01 DATUM CORRECT
0001 01 DATUM PROBABLY CORRECT
0002 01 DATUM PROBABLY INCORRECT
0003 01 DATUM INCORRECT
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 MISSING VALUE
033209 0016 0000 01 DATUM CORRECT
0001 01 DATUM PROBABLY CORRECT
0002 01 DATUM PROBABLY INCORRECT
0003 01 DATUM INCORRECT
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 MISSING VALUE
033220 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 REPORT REJECTED THROUGH THE NAMELIST
0017 01 MODEL SUR. TOO FAR FROM STAT. ALT.
0018 01 MISSING STATION ALTITUDE
0019 01 REPORT OVER SEA
0020 01 REPORT OVER LAND
0021 01 REDUNDANT REPORT
0022 01 TIME OUT OF RANGE
0023 01 VERTICAL POSITION OUT OF RANGE
0024 01 HORIZONTAL POSITION OUT OF RANGE
0025 01 ACTIVATED BY WHITELIST
0026 01 ACTIVATED DUE TO RDB FLAG
0027 01 REJECTED DUE TO RDB FLAG
0028 01 BAD REPORTING PRACTICE
0029 01 ALL DATA REJECTED
0030 01 NO DATA IN THE REPORT
033221 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
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0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033222 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033223 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033224 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
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0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033225 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
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0017 01 NOT DEFINED
0018 01 NOT DEFINED
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0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033226 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
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0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
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0020 01 NOT DEFINED
0021 01 NOT DEFINED
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0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033227 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
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0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033228 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
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0021 01 NOT DEFINED
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0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033229 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 THINNED REPORT
033230 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
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0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 NOT DEFINED
0028 01 NOT DEFINED
0029 01 NOT DEFINED
0030 01 NOT DEFINED
033232 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 BLACKLISTED DUE TO DISTANCE FROM REF. POINT
0015 01 BLACKLISTED DUE TO MODEL OROGRAPHY
0016 01 BLACKLISTED DUE TO LAND/SEA MASK
0017 01 STATION ALTITUDE BLACKLISTED
0018 01 LONGITUDE BLACKLISTED
0019 01 LATITUDE BLACKLISTED
0020 01 TIME BLACKLISTED
0021 01 DATE BLACKLISTED
0022 01 INSTRUMENT TYPE BLACKLISTED
0023 01 CODE TYPE BLACKLISTED
0024 01 STATION ID BLACKLISTED
0025 01 BLACKLISTED DUE TO FIRST GUESS DEPARTURE
0026 01 BLACKLISTED DUE TO OBSERVED VALUE
0027 01 BLACKLISTED DUE TO TYPE OF VERTICAL COORDINATE
0028 01 BLACKLISTED DUE TO PRESSURE CODE
0029 01 VARIABLE NAME BLACKLISTED
0030 01 MONTHLY MONITORING
033233 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
0026 01 NOT DEFINED
0027 01 REPORT BLACK LISTED
0028 01 REPORT REJECTED
0029 01 REPORT PASSIVE
0030 01 REPORT ACTIVE
033234 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 NOT DEFINED
0006 01 NOT DEFINED
0007 01 NOT DEFINED
0008 01 NOT DEFINED
0009 01 NOT DEFINED
0010 01 NOT DEFINED
0011 01 NOT DEFINED
0012 01 NOT DEFINED
0013 01 NOT DEFINED
0014 01 NOT DEFINED
0015 01 NOT DEFINED
0016 01 NOT DEFINED
0017 01 NOT DEFINED
0018 01 NOT DEFINED
0019 01 NOT DEFINED
0020 01 NOT DEFINED
0021 01 NOT DEFINED
0022 01 NOT DEFINED
0023 01 NOT DEFINED
0024 01 NOT DEFINED
0025 01 NOT DEFINED
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0026 01 NOT DEFINED
0027 01 DATUM BLACK LISTED
0028 01 DATUM REJECTED
0029 01 DATUM PASSIVE
0030 01 DATUM ACTIVE
033236 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
0003 01 NOT DEFINED
0004 01 NOT DEFINED
0005 01 DATUM REJECTED DUE TO REJECTED REPORT
0006 01 COMBINED FLAGGING
0007 01 DATUM REJECTED DUE TO NAMELIST
0008 01 VERTICAL COORDINATE CHANGE FROM Z TO P
0009 01 VERTICAL CONSISTENCY CHECK
0010 01 LEVEL SELECTION
0011 01 MULTI LEVEL CHECK
0012 01 TOO MANY SURFACE DATA/LEVELS
0013 01 DUPLICATED DATUM/LEVEL
0014 01 NOT AN ANALYSIS VARIABLE
0015 01 REPORT OVER SEA
0016 01 REPORT OVER LAND
0017 01 REDUNDANT LEVEL
0018 01 REDUNDANT DATUM
0019 01 TOO BIG OBSERVATION ERROR
0020 01 TOO BIG DEPARTURE IN ASSIMILATION
0021 01 TOO BIG FIRST GUESS DEPARTURE
0022 01 REFERENCE LEVEL POSITION OUT OF RANGE
0023 01 VERTICAL POSITION OUT OF RANGE
0024 01 BAD REPORTING PRACTICE
0025 01 ACTIVATED BY WHITELIST
0026 01 ACTIVATED DUE TO RDB FLAG
0027 01 REJECTED DUE TO RDB FLAG
0028 01 MISSING FIRST GUESS VALUE
0029 01 MISSING OBSERVED VALUE
0030 01 MISSING VERTICAL COORDINATE
033237 0030 0001 01 NOT DEFINED
0002 01 NOT DEFINED
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0029 01 LAYER FORMED BY THINNING UP
0030 01 NOT PREDEFINED LAYER
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0024 01 BLACKLISTED DUE TO FIRST GUESS DEPARTURE
0025 01 BLACKLISTED DUE TO OBSERVED VALUE
0026 01 BLACKLISTED DUE TO TYPE OF VERTICAL COORDINATE
0027 01 BLACKLISTED DUE TO DISTANCE FROM REFERENCE POINT
0028 01 BLACKLISTED DUE TO PRESSURE CODE
0029 01 VARIABLE BLACKLISTED
0030 01 PRESSURE BLACKLISTED
033252 0010 0000 01 Automatic quality control passed and not manually checked
0001 01 Automatic quality control passed and manually checked and passed
0002 01 Automatic quality control passed and manually checked and deleted
0003 01 Automatic quality control failed and manually not checked
0004 01 Automatic quality control failed and manually checked and failed
0005 01 Automatic quality control failed and manually checked and re-inserted
0006 01 Automatic quality control flagged data as questionable and not manually checked
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0007 02 Automatic quality control flagged data as questionable
      and manually checked and failed
0008 01 Manually checked and failed
0015 01 Missing value

033254 0019 0001 01 U DEPARTURE FROM GUESS
      0002 01 V DEPARTURE FROM GUESS
      0003 01 U & V DEPARTURE FROM GUESS
      0004 01 U ACCELERATION
      0005 01 V ACCELERATION
      0006 01 U & V ACCELERATION
      0007 01 POSSIBLE LAND FEATURE
      0008 01 U ACCELERATION AND POSSIBLE LAND FEATURE
      0009 01 V ACCELERATION AND POSSIBLE LAND FEATURE
      0010 01 U & V ACCELERATION AND POSSIBLE LAND FEATURE
      0011 01 BAD WIND GUESS
      0012 01 CORRELATION FAILURE
      0013 01 SEARCH BOX OFF EDGE OF AREA
      0014 01 TARGET BOX OFF EDGE OF AREA
      0015 01 PIXEL BRIGHTNESS OUT OF BOUNDS (NOISY LINE)
      0016 01 TARGET OUTSIDE OF LAT/LONG BOX
      0017 01 TARGET OUTSIDE OF PRESSURE MIN/MAX
      0018 01 AUTOEDITOR FLAGGED SLOW VECTOR
      0019 01 AUTOEDITOR FLAGGED VECTORS
035000 0011 0011 01 000-099 International FM Codes
      0001 01 100-199 RA I Codes
      0002 01 200-299 RA II Codes
      0003 01 300-399 RA III Codes
      0004 01 400-499 RA IV Codes
      0005 01 500-599 RA V Codes
      0006 01 600-699 RA VI Codes
      0007 01 700-799 Antarctic Codes
      0008 01 800-999 Reserved
      0009 01 1000-1022 Not used
      1023 01 Missing value
035001 0004 0000 01 Real time
      0001 01 Near-real time
      0002 01 Non-real time
      0007 01 Missing value
035030 0010 0000 01 No discrepancies
      0001 02 Non-compliance with standard and recommended practices
      and procedures including those of monitoring
      0002 01 Catalogues of meteorological bulletins not updated in a timely manner
      0003 01 Incorrect routeing directories
      0004 01 Lack of flexibility in the routeing arrangements
      0005 01 Deficiencies in the operation of GTS centres and circuits
      0006 01 Loss of data or delays in relaying data on the GTS
      0007 01 Routeing of data different from the routeing provided in the plan
      0008 01 Various malpractices
      0015 01 Missing value
035031 0020 0001 01 Sufficient and all of acceptable quality
      0002 01 Sufficient but partly of acceptable quality
      0003 01 Insufficient but all of acceptable quality
      0004 01 Insufficient and of unacceptable quality
      0005 01 Some messages not complete
      0006 01 Suspect or wrongly coded groups could not be interpreted confidently
      0007 01 Gross coding errors
      0008 01 Transmission sequential order not observed
      0009 01 Report completely garbled and thus discarded
      0010 01 Deficiencies identified and rectified
      0011 01 Deficiencies identified but not rectified
      0012 01 Deficiencies not identified
      0013 01 Measuring errors
      0014 01 Mutual inconsistency
      0015 01 Temporal inconsistency
      0016 01 Forecast error
      0017 01 Bias
      0018 01 Improve system of quality control
      0019 01 Expand training programmes
      0123 01 Missing value
035032 0010 0001 01 Data groups missing due to radio fading
      0002 01 Data groups missing due to outage of centre
      0003 01 Data groups missing due to outage of circuit
      0004 01 Non-implementation or maintenance of required RBSN density
      0005 01 Shortage of qualified staff to man stations
      0006 01 Lack of consumables
      0007 01 Instrument failure
      0008 01 Non-adherence to telecommunication procedures
      0009 01 Some observing programmes ceased
      0015 01 Missing value
035033 0012 0001 01 No deficiency
      0002 01 Observations not made regularly
      0003 01 Observations not made at right time
      0004 01 Observations made but not disseminated
      0005 01 Observations made and sent to incorrect users
      0006 01 Collection not received
      0007 01 Collection transmitted late
      0008 01 Collection not transmitted
      0009 01 Difficulties in HF propagation and selection of suitable frequency
      0010 01 Difficulties in maintenance of communication equipment at remote stations
      0011 01 No alternative arrangement for routeing meteorological observation
      0123 01 Missing value
035034 0007 0001 01 Slight improvement

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0002 01 Significant improvement
0003 01 Most significant improvement
0004 01 Steady
0005 01 Decreasing
0006 01 Efforts required to improve night-time observations
0007 01 Missing value
033035 0016 0000 01 Reserved
0001 01 Balloon burst
0002 01 Balloon forced down by icing
0003 01 Leaking or floating balloon
0004 01 Weak or fading signal
0005 01 Battery failure
0006 01 Ground equipment failure
0007 01 Signal interference
0008 01 Radiosonde failure
0009 01 Excessive missing data frames
0010 01 Reserved
0011 01 Excessive missing temperature
0012 01 Excessive missing pressure
0013 01 User terminated
0030 01 Other
0031 01 Missing value
049194 0014 0001 01 PASSED QUALITY CONTROL
0002 01 OUTSIDE TIME WINDOW
0003 01 ABOVE LAND
0004 01 OUTSIDE ENTIRE GRID
0005 01 WAVE HEIGHT OUT OF RANGE
0006 01 TOO HIGH ALONG TRACK JUMP
0007 01 TOO SHORT ALONG TRACK JUMP
0008 01 TOO HIGH ALONG TRACK VARIANCE
0009 01 OUTSIDE CONFIDENCE LIMIT
0010 01 DOUBLE OBSERVATION
0011 01 PEAKINESS ABOVE THRESHOLD
0012 01 RESERVED
0013 01 RESERVED
0014 01 RESERVED
049193 0014 0001 01 EXCELLENT (COST LESS THAN 0.1)
0002 01 GOOD (COST LESS THAN 0.5)
0003 01 QUESTIONABLE (COST LARGER THAN 0.5)
0004 01 RESULTS UNTABLE
0005 01 OBSERVED SAR SPECTRUM REJECTED
0006 01 WAM FIRST GUESS REJECTED
0007 01 SIMULATED SAR REJECTED
0008 01 NO AZIMUTH CUT-OFF ADJUSTMENT
0009 01 RESERVED
0010 01 RESERVED
0011 01 RESERVED
0012 01 RESERVED
0013 01 RESERVED
0014 01 RESERVED
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2.5 Bufr Table D

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3 Bufr Templates

3.1 Ecmwf observation subtypes

| RDB type | RDB type number | BUFR type | RDB subtype | RDB subtype number |
|----------|-----------------|-----------|------------------------|--------------------|
| Surface | 1 | 0 | synop land | 1 |
| | 1 | 0 | synop land record 2 | 2 |
| | 1 | 0 | synop land (auto) | 3 |
| | 1 | 0 | synop land (auto) 2 | 4 |
| | 1 | 0 | soil temperatures | 7 |
| | 1 | 0 | climat synop | 108 |
| | 1 | 0 | soil temperatures USA | 116 |
| | 1 | 0 | soil temperatures | 117 |
| | 1 | 0 | metar | 140 |
| | 1 | 1 | synop ship abbreviated | 9 |
| | 1 | 1 | synop ship | 11 |
| | 1 | 1 | synop ship record 2 | 12 |
| | 1 | 1 | synop ship (auto) | 13 |
| | 1 | 1 | synop ship (auto) 2 | 14 |
| | 1 | 1 | synop ship reduced | 19 |
| | 1 | 1 | surface buoy | 21 |
| | 1 | 1 | surface bathy | 22 |
| | 1 | 1 | surface tesac | 23 |
| | 1 | 1 | buoy argos | 27 |

| RDB type | RDB type number | BUFR type | RDB subtype | RDB subtype number |
|--------------|-----------------|-----------|------------------------|--------------------|
| Tovs | 2 | 3 | 80 km | 51 |
| | 2 | 3 | rtovs | 53 |
| | 2 | 3 | tovs1b | 54 |
| | 2 | 3 | atovs | 55 |
| | 2 | 3 | atovs product | 56 |
| | 2 | 3 | airs | 57 |
| | 2 | 3 | avhrr | 58 |
| | 2 | 3 | 500 km low level | 61 |
| | 2 | 3 | 500 km water | 62 |
| | 2 | 3 | 500 km high level | 63 |
| | 2 | 3 | 250 km low level | 71 |
| | 2 | 3 | 250 km water | 72 |
| | 2 | 3 | 250 km high level | 73 |
| | 2 | 3 | trmm bt | 129 |
| | 2 | 3 | trmra rain | 130 |
| | 2 | 3 | gomos | 206 |
| Geostationay | 3 | 5 | satob section 2 | 82 |
| | 3 | 5 | satob section3 | 83 |
| | 3 | 5 | satob section 4 | 84 |
| | 3 | 5 | satob seccion 5 | 85 |
| | 3 | 5 | HR wind | 86 |
| | 3 | 5 | HR wind + qc | 87 |
| | 3 | 5 | radiances (geostat) | 88 |
| | 3 | 5 | radiances (geostat) | 89 |
| | 3 | 5 | meris | 212 |
| | Wind profile | 4 | 2 | pilot |
| 4 | | 2 | pilot ship | 92 |
| 4 | | 2 | wind profiler (usa) | 95 |
| 4 | | 2 | wind profiler (Europe) | 96 |
| 4 | | 2 | wind profiler (Europe) | 97 |

| RDB type | RDB type number | BUFR type | RDB subtype | RDB subtype number |
|---------------|-----------------|-----------|--------------------------|--------------------|
| Temperature | 5 | 2 | temp | 101 |
| profile | 5 | 2 | temp ship | 102 |
| | 5 | 2 | temp drop | 103 |
| | 5 | 2 | rocob | 104 |
| | 5 | 2 | rocob ship | 105 |
| | 5 | 2 | temp mobile | 106 |
| | 5 | 2 | climat temp | 107 |
| Oceanographic | 6 | 31 | dribu/buoy | 131 |
| | 6 | 31 | bathy | 132 |
| | 6 | 31 | tesac | 133 |
| Single level | 7 | 4 | codar | 141 |
| | 7 | 4 | airep | 142 |
| | 7 | 4 | colba | 143 |
| | 7 | 4 | amdar | 144 |
| | 7 | 4 | acar | 145 |
| Satellite | 12 | 12 | uwa | 121 |
| | 12 | 12 | uwi | 122 |
| | 12 | 12 | ura | 123 |
| | 12 | 12 | uat | 124 |
| | 12 | 12 | ssmi (mapped) | 126 |
| | 12 | 12 | ssbt (ssmi brightness T) | 127 |
| | 12 | 12 | nwi (nsqat) | 136 |
| | 12 | 12 | qwi (qscat) | 138 |
| | 12 | 12 | asar | 210 |
| | 12 | 12 | ra-2 | 213 |
| | 12 | 12 | aatsr | 220 |
| | 12 | 12 | jason | 214 |
| Tropical | 8 | 7 | tropical storm | 31 |
| Chemical | 9 | 8 | Surface ozone | 157 |
| | 9 | 8 | Surface ozone average | 158 |
| | 9 | 8 | Vertical sounding ozone | 159 |
| | 8 | 8 | O3 layers | 170 |
| Bogus | 253 | 253 | paob | 164 |



3.2 Synop land

RDB type 1, subtype 1

```

ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 220
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                0
BUFR MESSAGE SUBTYPE             1
VERSION NUMBER OF LOCAL TABLE   1
YEAR                             1
MONTH                             2
DAY                              1
HOUR                             10
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

REPORT DATA BASE KEY

RDB DATA TYPE                   1
RDB DATA SUBTYPE                1
YEAR                             2001
MONTH                             2
DAY                              1
HOUR                             10
MINUTE                           0
SECOND                           0
LATITUDE 1                       54.83
LONGITUDE 1                      9.50
IDENTIFIER                       10033
TOTAL BUFR MESSAGE LENGTH        220
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             10
MINUTE (RDB INSERTION)           13
SECOND (RDB INSERTION)           43
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)              10
MINUTE (MDB ARRIVAL)             8
SECOND (MDB ARRIVAL)             43
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      28
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)

```

1 307005
2 013023
3 013013
4 222000
5 101049
6 031031
7 001031
8 001032
9 101049
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 002001 TYPE OF STATION
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007001 HEIGHT OF STATION
12 010004 PRESSURE
13 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
14 010061 3 HOUR PRESSURE CHANGE
15 010063 CHARACTERISTIC OF PRESSURE TENDENCY
16 011011 WIND DIRECTION AT 10 M
17 011012 WIND SPEED AT 10 M
18 012004 DRY BULB TEMPERATURE AT 2M
19 012006 DEW POINT TEMPERATURE AT 2M
20 013003 RELATIVE HUMIDITY
21 020001 HORIZONTAL VISIBILITY
22 020003 PRESENT WEATHER
23 020004 PAST WEATHER (1)
24 020005 PAST WEATHER (2)
25 020010 CLOUD COVER (TOTAL)
26 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
27 020011 CLOUD AMOUNT
28 020013 HEIGHT OF BASE OF CLOUD
29 020012 CLOUD TYPE
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
33 020011 CLOUD AMOUNT
34 020012 CLOUD TYPE
35 020013 HEIGHT OF BASE OF CLOUD
36 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
37 020011 CLOUD AMOUNT
38 020012 CLOUD TYPE
39 020013 HEIGHT OF BASE OF CLOUD
40 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
41 020011 CLOUD AMOUNT
42 020012 CLOUD TYPE
43 020013 HEIGHT OF BASE OF CLOUD
44 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
45 020011 CLOUD AMOUNT
46 020012 CLOUD TYPE
47 020013 HEIGHT OF BASE OF CLOUD
48 013023 TOTAL PRECIPITATION PAST 24 HOURS
49 013013 TOTAL SNOW DEPTH
50 222000 QUALITY INFORMATION FOLLOW
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
53 031031 DATA PRESENT INDICATOR
54 031031 DATA PRESENT INDICATOR
55 031031 DATA PRESENT INDICATOR
56 031031 DATA PRESENT INDICATOR
57 031031 DATA PRESENT INDICATOR
58 031031 DATA PRESENT INDICATOR
59 031031 DATA PRESENT INDICATOR
60 031031 DATA PRESENT INDICATOR
61 031031 DATA PRESENT INDICATOR
62 031031 DATA PRESENT INDICATOR
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66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 031031 DATA PRESENT INDICATOR
71 031031 DATA PRESENT INDICATOR
72 031031 DATA PRESENT INDICATOR
73 031031 DATA PRESENT INDICATOR
74 031031 DATA PRESENT INDICATOR
75 031031 DATA PRESENT INDICATOR
76 031031 DATA PRESENT INDICATOR
77 031031 DATA PRESENT INDICATOR
78 031031 DATA PRESENT INDICATOR
79 031031 DATA PRESENT INDICATOR


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80 031031 DATA PRESENT INDICATOR
81 031031 DATA PRESENT INDICATOR
82 031031 DATA PRESENT INDICATOR
83 031031 DATA PRESENT INDICATOR
84 031031 DATA PRESENT INDICATOR
85 031031 DATA PRESENT INDICATOR
86 031031 DATA PRESENT INDICATOR
87 031031 DATA PRESENT INDICATOR
88 031031 DATA PRESENT INDICATOR
89 031031 DATA PRESENT INDICATOR
90 031031 DATA PRESENT INDICATOR
91 031031 DATA PRESENT INDICATOR
92 031031 DATA PRESENT INDICATOR
93 031031 DATA PRESENT INDICATOR
94 031031 DATA PRESENT INDICATOR
95 031031 DATA PRESENT INDICATOR
96 031031 DATA PRESENT INDICATOR
97 031031 DATA PRESENT INDICATOR
98 031031 DATA PRESENT INDICATOR
99 031031 DATA PRESENT INDICATOR
100 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
101 001032 GENERATING APPLICATION
102 033007 % CONFIDENCE
103 033007 % CONFIDENCE
104 033007 % CONFIDENCE
105 033007 % CONFIDENCE
106 033007 % CONFIDENCE
107 033007 % CONFIDENCE
108 033007 % CONFIDENCE
109 033007 % CONFIDENCE
110 033007 % CONFIDENCE
111 033007 % CONFIDENCE
112 033007 % CONFIDENCE
113 033007 % CONFIDENCE
114 033007 % CONFIDENCE
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141 033007 % CONFIDENCE
142 033007 % CONFIDENCE
143 033007 % CONFIDENCE
144 033007 % CONFIDENCE
145 033007 % CONFIDENCE
146 033007 % CONFIDENCE
147 033007 % CONFIDENCE
148 033007 % CONFIDENCE
149 033007 % CONFIDENCE
150 033007 % CONFIDENCE

```

```

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

```

```

1 WMO BLOCK NUMBE      0.1000000000E+02 NUMERIC
2 WMO STATION NUM      0.3300000000E+02 NUMERIC
3 TYPE OF STATION      0.1000000000E+01 CODE TABLE 2001
4 YEAR                  0.2001000000E+04 YEAR
5 MONTH                0.2000000000E+01 MONTH
6 DAY                  0.1000000000E+01 DAY
7 HOUR                  0.1000000000E+02 HOUR
8 MINUTE                0.0000000000E+00 MINUTE
9 LATITUDE (HIGH)      0.5483000000E+02 DEGREE
10 LONGITUDE (HIGH)    0.9500000000E+01 DEGREE
11 HEIGHT OF STATI     0.3300000000E+02 M
12 PRESSURE             0.1021700000E+06 PA
13 PRESSURE REDUCE     0.1025900000E+06 PA
14 3 HOUR PRESSURE     0.7000000000E+02 PA
15 CHARACTERISTIC      0.2000000000E+01 CODE TABLE 10063
16 WIND DIRECTION       0.3500000000E+03 DEGREE TRUE
17 WIND SPEED AT 1     0.7000000000E+01 M/S
18 DRY BULB TEMPER     0.2740000000E+03 K

```

| | | | | | |
|-----|-----------------|------------------|------------|------------|-------|
| 19 | DEW POINT TEMPE | 0.2725000000E+03 | K | | |
| 20 | RELATIVE HUMIDI | | MISSING | % | |
| 21 | HORIZONTAL VISI | 0.1500000000E+05 | M | | |
| 22 | PRESENT WEATHER | 0.2000000000E+01 | CODE TABLE | | 20003 |
| 23 | PAST WEATHER (1 | 0.1000000000E+01 | CODE TABLE | | 20004 |
| 24 | PAST WEATHER (2 | 0.1000000000E+01 | CODE TABLE | | 20005 |
| 25 | CLOUD COVER (TO | 0.9000000000E+02 | % | | |
| 26 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | | 8002 |
| 27 | CLOUD AMOUNT | 0.7000000000E+01 | CODE TABLE | | 20011 |
| 28 | HEIGHT OF BASE | 0.4500000000E+03 | M | | |
| 29 | CLOUD TYPE | 0.3500000000E+02 | CODE TABLE | | 20012 |
| 30 | CLOUD TYPE | 0.6100000000E+02 | CODE TABLE | | 20012 |
| 31 | CLOUD TYPE | 0.6000000000E+02 | CODE TABLE | | 20012 |
| 32 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | | 8002 |
| 33 | CLOUD AMOUNT | 0.2000000000E+01 | CODE TABLE | | 20011 |
| 34 | CLOUD TYPE | 0.7000000000E+01 | CODE TABLE | | 20012 |
| 35 | HEIGHT OF BASE | 0.3200000000E+03 | M | | |
| 36 | VERTICAL SIGNIF | 0.2000000000E+01 | CODE TABLE | | 8002 |
| 37 | CLOUD AMOUNT | 0.7000000000E+01 | CODE TABLE | | 20011 |
| 38 | CLOUD TYPE | 0.6000000000E+01 | CODE TABLE | | 20012 |
| 39 | HEIGHT OF BASE | 0.4100000000E+03 | M | | |
| 40 | VERTICAL SIGNIF | 0.3000000000E+01 | CODE TABLE | | 8002 |
| 41 | CLOUD AMOUNT | | MISSING | CODE TABLE | 20011 |
| 42 | CLOUD TYPE | | MISSING | CODE TABLE | 20012 |
| 43 | HEIGHT OF BASE | | MISSING | M | |
| 44 | VERTICAL SIGNIF | | MISSING | CODE TABLE | 8002 |
| 45 | CLOUD AMOUNT | | MISSING | CODE TABLE | 20011 |
| 46 | CLOUD TYPE | | MISSING | CODE TABLE | 20012 |
| 47 | HEIGHT OF BASE | | MISSING | M | |
| 48 | TOTAL PRECIPITA | | MISSING | KG/M**2 | |
| 49 | TOTAL SNOW DEPT | | MISSING | M | |
| 50 | QUALITY INFORMA | 0.0000000000E+00 | | | |
| 51 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 52 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 53 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 54 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 55 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 56 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 57 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 58 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 59 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 60 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 61 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 62 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 63 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 64 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 65 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 66 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 67 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 68 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 69 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 70 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 71 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 72 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 73 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 74 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 75 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 76 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 77 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 78 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 79 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 80 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 81 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 82 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 83 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 84 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 85 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 86 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 87 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 88 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 89 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 90 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 91 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 92 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 93 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 94 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 95 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 96 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 97 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 98 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 99 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 100 | IDENTIFICATION | 0.9800000000E+02 | CODE TABLE | | 1031 |
| 101 | GENERATING APPL | 0.1000000000E+01 | CODE TABLE | | 1032 |
| 102 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 103 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 104 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 105 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 106 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 107 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 108 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 109 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 110 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |
| 111 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | | |

```
112 % CONFIDENCE      0.7500000000E+02 NUMERIC
113 % CONFIDENCE      0.7400000000E+02 NUMERIC
114 % CONFIDENCE      0.7400000000E+02 NUMERIC
115 % CONFIDENCE      0.7700000000E+02 NUMERIC
116 % CONFIDENCE      0.7900000000E+02 NUMERIC
117 % CONFIDENCE      0.7000000000E+02 NUMERIC
118 % CONFIDENCE      0.7000000000E+02 NUMERIC
119 % CONFIDENCE      0.8000000000E+02 NUMERIC
120 % CONFIDENCE      0.7700000000E+02 NUMERIC
121 % CONFIDENCE      0.7000000000E+02 NUMERIC
122 % CONFIDENCE      0.8200000000E+02 NUMERIC
123 % CONFIDENCE      0.8500000000E+02 NUMERIC
124 % CONFIDENCE      0.7000000000E+02 NUMERIC
125 % CONFIDENCE      0.7000000000E+02 NUMERIC
126 % CONFIDENCE      0.8500000000E+02 NUMERIC
127 % CONFIDENCE      0.7000000000E+02 NUMERIC
128 % CONFIDENCE      0.8500000000E+02 NUMERIC
129 % CONFIDENCE      0.8400000000E+02 NUMERIC
130 % CONFIDENCE      0.8500000000E+02 NUMERIC
131 % CONFIDENCE      0.8500000000E+02 NUMERIC
132 % CONFIDENCE      0.8500000000E+02 NUMERIC
133 % CONFIDENCE      0.7000000000E+02 NUMERIC
134 % CONFIDENCE      0.7000000000E+02 NUMERIC
135 % CONFIDENCE      0.7000000000E+02 NUMERIC
136 % CONFIDENCE      0.7000000000E+02 NUMERIC
137 % CONFIDENCE      0.7000000000E+02 NUMERIC
138 % CONFIDENCE      0.7000000000E+02 NUMERIC
139 % CONFIDENCE      0.7000000000E+02 NUMERIC
140 % CONFIDENCE      0.7000000000E+02 NUMERIC
141 % CONFIDENCE      0.7000000000E+02 NUMERIC
142 % CONFIDENCE      0.7000000000E+02 NUMERIC
143 % CONFIDENCE      0.7000000000E+02 NUMERIC
144 % CONFIDENCE      0.7000000000E+02 NUMERIC
145 % CONFIDENCE      0.7000000000E+02 NUMERIC
146 % CONFIDENCE      0.7000000000E+02 NUMERIC
147 % CONFIDENCE      0.7000000000E+02 NUMERIC
148 % CONFIDENCE      0.7000000000E+02 NUMERIC
149 % CONFIDENCE      0.7000000000E+02 NUMERIC
150 % CONFIDENCE      0.7000000000E+02 NUMERIC
```

3.3 Synop land second record

RDB type 1, subtype 2

```
ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)          8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 212
BUFR EDITION NUMBER                   3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)          18
BUFR EDITION NUMBER                   3
ORIGINATING SUB-CENTRE                 0
ORIGINATING CENTRE                     98
UPDATE SEQUENCE NUMBER                 1
FLAG (PRESENCE OF SECTION 2)          128
BUFR MESSAGE TYPE                      0
BUFR MESSAGE SUBTYPE                   2
VERSION NUMBER OF LOCAL TABLE         1
YEAR                                    4
MONTH                                   1
DAY                                     7
HOUR                                    0
MINUTE                                  0
VERSION NUMBER OF MASTER TABLE        6
BUFR MASTER TABLE                     0
1
    BUFR SECTION 2

LENGTH OF SECTION 2                   52

REPORT DATA BASE KEY

RDB DATA TYPE                         1
RDB DATA SUBTYPE                      2
YEAR                                   2004
MONTH                                   1
DAY                                     7
HOUR                                    0
MINUTE                                  0
SECOND                                  0
LATITUDE 1                             14.05
LONGITUDE 1                             -87.22
IDENTIFIER                               78720
TOTAL BUFR MESSAGE LENGTH              212
DAY (RDB INSERTION)                    7
HOUR (RDB INSERTION)                   0
MINUTE (RDB INSERTION)                 31
SECOND (RDB INSERTION)                 35
DAY (MDB ARRIVAL)                      7
HOUR (MDB ARRIVAL)                     0
MINUTE (MDB ARRIVAL)                   28
SECOND (MDB ARRIVAL)                   39
CORRECTION NUMBER                      0
PART OF MESSAGE                        1
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
QUALITY CONTROL % CONF                  70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)           56
RESERVED                               0
NUMBER OF DATA SUBSETS                1
FLAG (DATA TYPE/DATA COMPRESSION)     128

DATA DESCRIPTORS (UNEXPANDED)
```



1 301031
 2 012013
 3 012017
 4 012014
 5 013031
 6 014015
 7 014031
 8 020062
 9 020192
 10 020192
 11 020192
 12 020192
 13 011233
 14 011041
 15 011230
 16 011231
 17 011232
 18 222000
 19 101027
 20 031031
 21 001031
 22 001032
 23 101027
 24 033007

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
 2 001002 WMO STATION NUMBER
 3 002001 TYPE OF STATION
 4 004001 YEAR
 5 004002 MONTH
 6 004003 DAY
 7 004004 HOUR
 8 004005 MINUTE
 9 005001 LATITUDE (HIGH ACCURACY)
 10 006001 LONGITUDE (HIGH ACCURACY)
 11 007001 HEIGHT OF STATION
 12 012013 GROUND MINIMUM TEMPERATURE PAST 12 HOURS
 13 012017 MINIMUM TEMPERATURE AT 2M, PAST 24 HOURS
 14 012014 MAXIMUM TEMPERATURE AT 2M, PAST 12 HOURS
 15 013031 EVAPOTRANSPIRATION
 16 014015 NET RADIATION INTEGRATED OVER 24HOURS
 17 014031 TOTAL SUNSHINE
 18 020062 STATE OF GROUND (WITH OR WITHOUTSNOW)
 19 020192 SPECIAL PHENOMENA
 20 020192 SPECIAL PHENOMENA
 21 020192 SPECIAL PHENOMENA
 22 020192 SPECIAL PHENOMENA
 23 011233 HIGHEST GUST DURING THE 10 MINUTE PERIOD PRECEDING OBSERVATION
 24 011041 MAXIMUM WIND SPEED (GUSTS)
 25 011230 MAXIMUM MEAN WIND SPEED
 26 011231 MEAN WIND SPEED
 27 011232 MINIMUM MEAN WIND SPEED
 28 222000 QUALITY INFORMATION FOLLOW
 29 031031 DATA PRESENT INDICATOR
 30 031031 DATA PRESENT INDICATOR
 31 031031 DATA PRESENT INDICATOR
 32 031031 DATA PRESENT INDICATOR
 33 031031 DATA PRESENT INDICATOR
 34 031031 DATA PRESENT INDICATOR
 35 031031 DATA PRESENT INDICATOR
 36 031031 DATA PRESENT INDICATOR
 37 031031 DATA PRESENT INDICATOR
 38 031031 DATA PRESENT INDICATOR
 39 031031 DATA PRESENT INDICATOR
 40 031031 DATA PRESENT INDICATOR
 41 031031 DATA PRESENT INDICATOR
 42 031031 DATA PRESENT INDICATOR
 43 031031 DATA PRESENT INDICATOR
 44 031031 DATA PRESENT INDICATOR
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 46 031031 DATA PRESENT INDICATOR
 47 031031 DATA PRESENT INDICATOR
 48 031031 DATA PRESENT INDICATOR
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 50 031031 DATA PRESENT INDICATOR
 51 031031 DATA PRESENT INDICATOR
 52 031031 DATA PRESENT INDICATOR
 53 031031 DATA PRESENT INDICATOR
 54 031031 DATA PRESENT INDICATOR
 55 031031 DATA PRESENT INDICATOR
 56 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
 57 001032 GENERATING APPLICATION
 58 033007 % CONFIDENCE
 59 033007 % CONFIDENCE
 60 033007 % CONFIDENCE
 61 033007 % CONFIDENCE
 62 033007 % CONFIDENCE
 63 033007 % CONFIDENCE
 64 033007 % CONFIDENCE
 65 033007 % CONFIDENCE

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66 033007 % CONFIDENCE
67 033007 % CONFIDENCE
68 033007 % CONFIDENCE
69 033007 % CONFIDENCE
70 033007 % CONFIDENCE
71 033007 % CONFIDENCE
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
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78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
80 033007 % CONFIDENCE
81 033007 % CONFIDENCE
82 033007 % CONFIDENCE
83 033007 % CONFIDENCE
84 033007 % CONFIDENCE
```

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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1
```

```
1 WMO BLOCK NUMBE      .7800000000E+02 NUMERIC
2 WMO STATION NUM     .7200000000E+03 NUMERIC
3 TYPE OF STATION     .1000000000E+01 CODE TABLE  2001
4 YEAR                .2004000000E+04 YEAR
5 MONTH              .1000000000E+01 MONTH
6 DAY                .7000000000E+01 DAY
7 HOUR               .0000000000E+00 HOUR
8 MINUTE             .0000000000E+00 MINUTE
9 LATITUDE (HIGH)    .1405000019E+02 DEGREE
10 LONGITUDE (HIGH)  -.8722000122E+02 DEGREE
11 HEIGHT OF STATI    .1007000000E+04 M
12 GROUND MINIMUM     MISSING K
13 MINIMUM TEMPERA    .2903999939E+03 K
14 MAXIMUM TEMPERA    .3007000122E+03 K
15 EVAPOTRANSPIRAT    MISSING KG/M**2
16 NET RADIATION I     MISSING J/M**2
17 TOTAL SUNSHINE     MISSING MINUTE
18 STATE OF GROUND    .0000000000E+00 CODE TABLE  20062
19 SPECIAL PHENOME    MISSING CODE TABLE  20192
20 SPECIAL PHENOME    MISSING CODE TABLE  20192
21 SPECIAL PHENOME    MISSING CODE TABLE  20192
22 SPECIAL PHENOME    MISSING CODE TABLE  20192
23 HIGHEST GUST DU    MISSING M/S
24 MAXIMUM WIND SP     MISSING M/S
25 MAXIMUM MEAN WI    MISSING M/S
26 MEAN WIND SPEED    MISSING M/S
27 MINIMUM MEAN WI    MISSING M/S
28 QUALITY INFORMA    .0000000000E+00
29 DATA PRESENT IN   .0000000000E+00 NUMERIC
30 DATA PRESENT IN   .0000000000E+00 NUMERIC
31 DATA PRESENT IN   .0000000000E+00 NUMERIC
32 DATA PRESENT IN   .0000000000E+00 NUMERIC
33 DATA PRESENT IN   .0000000000E+00 NUMERIC
34 DATA PRESENT IN   .0000000000E+00 NUMERIC
35 DATA PRESENT IN   .0000000000E+00 NUMERIC
36 DATA PRESENT IN   .0000000000E+00 NUMERIC
37 DATA PRESENT IN   .0000000000E+00 NUMERIC
38 DATA PRESENT IN   .0000000000E+00 NUMERIC
39 DATA PRESENT IN   .0000000000E+00 NUMERIC
40 DATA PRESENT IN   .0000000000E+00 NUMERIC
41 DATA PRESENT IN   .0000000000E+00 NUMERIC
42 DATA PRESENT IN   .0000000000E+00 NUMERIC
43 DATA PRESENT IN   .0000000000E+00 NUMERIC
44 DATA PRESENT IN   .0000000000E+00 NUMERIC
45 DATA PRESENT IN   .0000000000E+00 NUMERIC
46 DATA PRESENT IN   .0000000000E+00 NUMERIC
47 DATA PRESENT IN   .0000000000E+00 NUMERIC
48 DATA PRESENT IN   .0000000000E+00 NUMERIC
49 DATA PRESENT IN   .0000000000E+00 NUMERIC
50 DATA PRESENT IN   .0000000000E+00 NUMERIC
51 DATA PRESENT IN   .0000000000E+00 NUMERIC
52 DATA PRESENT IN   .0000000000E+00 NUMERIC
53 DATA PRESENT IN   .0000000000E+00 NUMERIC
54 DATA PRESENT IN   .0000000000E+00 NUMERIC
55 DATA PRESENT IN   .0000000000E+00 NUMERIC
56 IDENTIFICATION     .9800000000E+02 CODE TABLE  1031
57 GENERATING APPL    .1000000000E+01 CODE TABLE  1032
58 % CONFIDENCE        .7000000000E+02 NUMERIC
59 % CONFIDENCE        .7000000000E+02 NUMERIC
60 % CONFIDENCE        .7000000000E+02 NUMERIC
61 % CONFIDENCE        .7000000000E+02 NUMERIC
62 % CONFIDENCE        .7000000000E+02 NUMERIC
63 % CONFIDENCE        .7000000000E+02 NUMERIC
64 % CONFIDENCE        .7000000000E+02 NUMERIC
65 % CONFIDENCE        .7000000000E+02 NUMERIC
66 % CONFIDENCE        .7000000000E+02 NUMERIC
67 % CONFIDENCE        .7000000000E+02 NUMERIC
68 % CONFIDENCE        .7000000000E+02 NUMERIC
69 % CONFIDENCE        .7000000000E+02 NUMERIC
70 % CONFIDENCE        .7000000000E+02 NUMERIC
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71 % CONFIDENCE .7000000000E+02 NUMERIC
72 % CONFIDENCE .7000000000E+02 NUMERIC
73 % CONFIDENCE .7000000000E+02 NUMERIC
74 % CONFIDENCE .7000000000E+02 NUMERIC
75 % CONFIDENCE .7000000000E+02 NUMERIC
76 % CONFIDENCE .7000000000E+02 NUMERIC
77 % CONFIDENCE .7000000000E+02 NUMERIC
78 % CONFIDENCE .7000000000E+02 NUMERIC
79 % CONFIDENCE .7000000000E+02 NUMERIC
80 % CONFIDENCE .7000000000E+02 NUMERIC
81 % CONFIDENCE .7000000000E+02 NUMERIC
82 % CONFIDENCE .7000000000E+02 NUMERIC
83 % CONFIDENCE .7000000000E+02 NUMERIC
84 % CONFIDENCE .7000000000E+02 NUMERIC

3.4 Synop land (auto)

RDB type 1, subtype 3

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
  BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)      8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 220
    BUFR EDITION NUMBER              3
1
  BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)      18
    BUFR EDITION NUMBER              3
    ORIGINATING SUB-CENTRE           0
    ORIGINATING CENTRE               98
    UPDATE SEQUENCE NUMBER            1
    FLAG (PRESENCE OF SECTION 2)     128
    BUFR MESSAGE TYPE                 0
    BUFR MESSAGE SUBTYPE              3
    VERSION NUMBER OF LOCAL TABLE    1
    YEAR                               1
    MONTH                             2
    DAY                               1
    HOUR                             10
    MINUTE                             0
    VERSION NUMBER OF MASTER TABLE   6
    BUFR MASTER TABLE                0
1
  BUFR SECTION 2
    LENGTH OF SECTION 2              52
    REPORT DATA BASE KEY
    RDB DATA TYPE                   1
    RDB DATA SUBTYPE                 3
    YEAR                             2001
    MONTH                             2
    DAY                               1
    HOUR                             10
    MINUTE                             0
    SECOND                             0
    LATITUDE 1                        46.87
    LONGITUDE 1                       9.53
    IDENTIFIER                        06786
    TOTAL BUFR MESSAGE LENGTH         220
    DAY (RDB INSERTION)               1
    HOUR (RDB INSERTION)              10
    MINUTE (RDB INSERTION)            3
    SECOND (RDB INSERTION)            31
    DAY (MDB ARRIVAL)                 1
    HOUR (MDB ARRIVAL)                9
    MINUTE (MDB ARRIVAL)              59
    SECOND (MDB ARRIVAL)              19
    CORRECTION NUMBER                 0
    PART OF MESSAGE                   1
    CORRECTION NUMBER                 0
    PART OF MESSAGE                   0
    CORRECTION NUMBER                 0
    PART OF MESSAGE                   0
    CORRECTION NUMBER                 0
    PART OF MESSAGE                   0
    CORRECTION NUMBER                 0
    PART OF MESSAGE                   0
    QUALITY CONTROL & CONF            70
1
  BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)      28
    RESERVED                          0
    NUMBER OF DATA SUBSETS           1
    FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)
    1 307005
    2 013023
    3 013013
```


4 222000
5 101049
6 031031
7 001031
8 001032
9 101049
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 002001 TYPE OF STATION
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007001 HEIGHT OF STATION
12 010004 PRESSURE
13 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
14 010061 3 HOUR PRESSURE CHANGE
15 010063 CHARACTERISTIC OF PRESSURE TENDENCY
16 011011 WIND DIRECTION AT 10 M
17 011012 WIND SPEED AT 10 M
18 012004 DRY BULB TEMPERATURE AT 2M
19 012006 DEW POINT TEMPERATURE AT 2M
20 013003 RELATIVE HUMIDITY
21 020001 HORIZONTAL VISIBILITY
22 020003 PRESENT WEATHER
23 020004 PAST WEATHER (1)
24 020005 PAST WEATHER (2)
25 020010 CLOUD COVER (TOTAL)
26 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
27 020011 CLOUD AMOUNT
28 020013 HEIGHT OF BASE OF CLOUD
29 020012 CLOUD TYPE
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
33 020011 CLOUD AMOUNT
34 020012 CLOUD TYPE
35 020013 HEIGHT OF BASE OF CLOUD
36 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
37 020011 CLOUD AMOUNT
38 020012 CLOUD TYPE
39 020013 HEIGHT OF BASE OF CLOUD
40 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
41 020011 CLOUD AMOUNT
42 020012 CLOUD TYPE
43 020013 HEIGHT OF BASE OF CLOUD
44 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
45 020011 CLOUD AMOUNT
46 020012 CLOUD TYPE
47 020013 HEIGHT OF BASE OF CLOUD
48 013023 TOTAL PRECIPITATION PAST 24 HOURS
49 013013 TOTAL SNOW DEPTH
50 222000 QUALITY INFORMATION FOLLOW
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
53 031031 DATA PRESENT INDICATOR
54 031031 DATA PRESENT INDICATOR
55 031031 DATA PRESENT INDICATOR
56 031031 DATA PRESENT INDICATOR
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83 031031 DATA PRESENT INDICATOR
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94 031031 DATA PRESENT INDICATOR
95 031031 DATA PRESENT INDICATOR
96 031031 DATA PRESENT INDICATOR
97 031031 DATA PRESENT INDICATOR
98 031031 DATA PRESENT INDICATOR
99 031031 DATA PRESENT INDICATOR
100 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
101 001032 GENERATING APPLICATION
102 033007 % CONFIDENCE
103 033007 % CONFIDENCE
104 033007 % CONFIDENCE
105 033007 % CONFIDENCE
106 033007 % CONFIDENCE
107 033007 % CONFIDENCE
108 033007 % CONFIDENCE
109 033007 % CONFIDENCE
110 033007 % CONFIDENCE
111 033007 % CONFIDENCE
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141 033007 % CONFIDENCE
142 033007 % CONFIDENCE
143 033007 % CONFIDENCE
144 033007 % CONFIDENCE
145 033007 % CONFIDENCE
146 033007 % CONFIDENCE
147 033007 % CONFIDENCE
148 033007 % CONFIDENCE
149 033007 % CONFIDENCE
150 033007 % CONFIDENCE
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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1
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```
1 WMO BLOCK NUMBE 0.6000000000E+01 NUMERIC
2 WMO STATION NUM 0.7860000000E+03 NUMERIC
3 TYPE OF STATION 0.0000000000E+00 CODE TABLE 2001
4 YEAR 0.2001000000E+04 YEAR
5 MONTH 0.2000000000E+01 MONTH
6 DAY 0.1000000000E+01 DAY
7 HOUR 0.1000000000E+02 HOUR
8 MINUTE 0.0000000000E+00 MINUTE
9 LATITUDE (HIGH 0.4687000000E+02 DEGREE
10 LONGITUDE (HIGH 0.9530000000E+01 DEGREE
11 HEIGHT OF STATI 0.5560000000E+03 M
12 PRESSURE 0.9571000000E+05 PA
13 PRESSURE REDUCE 0.1025500000E+06 PA
14 3 HOUR PRESSURE 0.1300000000E+03 PA
15 CHARACTERISTIC 0.2000000000E+01 CODE TABLE 10063
16 WIND DIRECTION 0.4000000000E+02 DEGREE TRUE
17 WIND SPEED AT 1 0.5000000000E+01 M/S
18 DRY BULB TEMPER 0.2724000000E+03 K
19 DEW POINT TEMPE 0.2661000000E+03 K
20 RELATIVE HUMIDI MISSING %
21 HORIZONTAL VISI MISSING M
```

| | | | | |
|-----|-----------------|------------------|--------------------|-------|
| 22 | PRESENT WEATHER | | MISSING CODE TABLE | 20003 |
| 23 | PAST WEATHER (1 | | MISSING CODE TABLE | 20004 |
| 24 | PAST WEATHER (2 | | MISSING CODE TABLE | 20005 |
| 25 | CLOUD COVER (TO | | MISSING % | |
| 26 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8002 |
| 27 | CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 28 | HEIGHT OF BASE | | MISSING M | |
| 29 | CLOUD TYPE | 0.6200000000E+02 | CODE TABLE | 20012 |
| 30 | CLOUD TYPE | 0.6100000000E+02 | CODE TABLE | 20012 |
| 31 | CLOUD TYPE | 0.6000000000E+02 | CODE TABLE | 20012 |
| 32 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8002 |
| 33 | CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 34 | CLOUD TYPE | | MISSING CODE TABLE | 20012 |
| 35 | HEIGHT OF BASE | | MISSING M | |
| 36 | VERTICAL SIGNIF | 0.2000000000E+01 | CODE TABLE | 8002 |
| 37 | CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 38 | CLOUD TYPE | | MISSING CODE TABLE | 20012 |
| 39 | HEIGHT OF BASE | | MISSING M | |
| 40 | VERTICAL SIGNIF | 0.3000000000E+01 | CODE TABLE | 8002 |
| 41 | CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 42 | CLOUD TYPE | | MISSING CODE TABLE | 20012 |
| 43 | HEIGHT OF BASE | | MISSING M | |
| 44 | VERTICAL SIGNIF | | MISSING CODE TABLE | 8002 |
| 45 | CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 46 | CLOUD TYPE | | MISSING CODE TABLE | 20012 |
| 47 | HEIGHT OF BASE | | MISSING M | |
| 48 | TOTAL PRECIPITA | | MISSING KG/M**2 | |
| 49 | TOTAL SNOW DEPT | | MISSING M | |
| 50 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 51 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 52 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 53 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 54 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 55 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 56 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 57 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 58 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 59 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 60 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 61 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 62 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 63 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 64 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 65 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 66 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 67 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 68 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 69 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 70 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 71 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 72 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 73 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 74 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 75 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 76 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 77 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 78 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 79 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 80 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 81 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 82 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 83 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 84 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 85 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 86 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 87 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 88 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 89 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 90 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 91 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 92 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 93 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 94 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 95 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 96 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 97 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 98 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 99 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 100 | IDENTIFICATION | 0.9800000000E+02 | CODE TABLE | 1031 |
| 101 | GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |
| 102 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 103 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 104 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 105 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 106 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 107 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 108 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 109 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 110 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 111 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 112 | % CONFIDENCE | 0.7500000000E+02 | NUMERIC | |
| 113 | % CONFIDENCE | 0.7400000000E+02 | NUMERIC | |
| 114 | % CONFIDENCE | 0.7400000000E+02 | NUMERIC | |

```
115 % CONFIDENCE 0.7700000000E+02 NUMERIC
116 % CONFIDENCE 0.7900000000E+02 NUMERIC
117 % CONFIDENCE 0.7000000000E+02 NUMERIC
118 % CONFIDENCE 0.7000000000E+02 NUMERIC
119 % CONFIDENCE 0.7700000000E+02 NUMERIC
120 % CONFIDENCE 0.7400000000E+02 NUMERIC
121 % CONFIDENCE 0.7000000000E+02 NUMERIC
122 % CONFIDENCE 0.7000000000E+02 NUMERIC
123 % CONFIDENCE 0.7000000000E+02 NUMERIC
124 % CONFIDENCE 0.7000000000E+02 NUMERIC
125 % CONFIDENCE 0.7000000000E+02 NUMERIC
126 % CONFIDENCE 0.7000000000E+02 NUMERIC
127 % CONFIDENCE 0.7000000000E+02 NUMERIC
128 % CONFIDENCE 0.7000000000E+02 NUMERIC
129 % CONFIDENCE 0.7000000000E+02 NUMERIC
130 % CONFIDENCE 0.7500000000E+02 NUMERIC
131 % CONFIDENCE 0.7900000000E+02 NUMERIC
132 % CONFIDENCE 0.7900000000E+02 NUMERIC
133 % CONFIDENCE 0.7000000000E+02 NUMERIC
134 % CONFIDENCE 0.7000000000E+02 NUMERIC
135 % CONFIDENCE 0.7000000000E+02 NUMERIC
136 % CONFIDENCE 0.7000000000E+02 NUMERIC
137 % CONFIDENCE 0.7000000000E+02 NUMERIC
138 % CONFIDENCE 0.7000000000E+02 NUMERIC
139 % CONFIDENCE 0.7000000000E+02 NUMERIC
140 % CONFIDENCE 0.7000000000E+02 NUMERIC
141 % CONFIDENCE 0.7000000000E+02 NUMERIC
142 % CONFIDENCE 0.7000000000E+02 NUMERIC
143 % CONFIDENCE 0.7000000000E+02 NUMERIC
144 % CONFIDENCE 0.7000000000E+02 NUMERIC
145 % CONFIDENCE 0.7000000000E+02 NUMERIC
146 % CONFIDENCE 0.7000000000E+02 NUMERIC
147 % CONFIDENCE 0.7000000000E+02 NUMERIC
148 % CONFIDENCE 0.7000000000E+02 NUMERIC
149 % CONFIDENCE 0.7000000000E+02 NUMERIC
150 % CONFIDENCE 0.7000000000E+02 NUMERIC
```



3.5 Synop land auto second record

RDB type 1, subtype 4

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)      8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 212
    BUFR EDITION NUMBER              3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)      18
    BUFR EDITION NUMBER              3
    ORIGINATING SUB-CENTRE           0
    ORIGINATING CENTRE               98
    UPDATE SEQUENCE NUMBER            1
    FLAG (PRESENCE OF SECTION 2)     128
    BUFR MESSAGE TYPE                 0
    BUFR MESSAGE SUBTYPE              4
    VERSION NUMBER OF LOCAL TABLE    1
    YEAR                              4
    MONTH                             1
    DAY                               7
    HOUR                             0
    MINUTE                            0
    VERSION NUMBER OF MASTER TABLE   6
    BUFR MASTER TABLE                0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2              52
    REPORT DATA BASE KEY
    RDB DATA TYPE                    1
    RDB DATA SUBTYPE                  4
    YEAR                              2004
    MONTH                             1
    DAY                               7
    HOUR                             0
    MINUTE                            0
    SECOND                            0
    LATITUDE 1                        -62.22
    LONGITUDE 1                       -58.97
    IDENTIFIER                         89058
    TOTAL BUFR MESSAGE LENGTH         212
    DAY (RDB INSERTION)                7
    HOUR (RDB INSERTION)               0
    MINUTE (RDB INSERTION)             36
    SECOND (RDB INSERTION)             39
    DAY (MDB ARRIVAL)                 7
    HOUR (MDB ARRIVAL)                0
    MINUTE (MDB ARRIVAL)              34
    SECOND (MDB ARRIVAL)              18
    CORRECTION NUMBER                 0
    PART OF MESSAGE                    1
    CORRECTION NUMBER                 0
    PART OF MESSAGE                    0
    CORRECTION NUMBER                 0
    PART OF MESSAGE                    0
    CORRECTION NUMBER                 0
    PART OF MESSAGE                    0
    CORRECTION NUMBER                 0
    PART OF MESSAGE                    0
    QUALITY CONTROL % CONF            70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)        56
    RESERVED                           0
    NUMBER OF DATA SUBSETS            1
    FLAG (DATA TYPE/DATA COMPRESSION)  128

    DATA DESCRIPTORS (UNEXPANDED)
    1 301031
    2 012013
    3 012017

```

4 012016
5 013031
6 014015
7 014031
8 020062
9 020192
10 020192
11 020192
12 020192
13 011233
14 011041
15 011230
16 011231
17 011232
18 222000
19 101027
20 031031
21 001031
22 001032
23 101027
24 033007

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 002001 TYPE OF STATION
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007001 HEIGHT OF STATION
12 012013 GROUND MINIMUM TEMPERATURE PAST 12 HOURS
13 012017 MINIMUM TEMPERATURE AT 2M, PAST 24 HOURS
14 012016 MAXIMUM TEMPERATURE AT 2M, PAST 24 HOURS
15 013031 EVAPOTRANSPIRATION
16 014015 NET RADIATION INTEGRATED OVER 24HOURS
17 014031 TOTAL SUNSHINE
18 020062 STATE OF GROUND (WITH OR WITHOUTSNOW)
19 020192 SPECIAL PHENOMENA
20 020192 SPECIAL PHENOMENA
21 020192 SPECIAL PHENOMENA
22 020192 SPECIAL PHENOMENA
23 011233 HIGHEST GUST DURING THE 10 MINUTE PERIOD PRECEDING OBSERVATION
24 011041 MAXIMUM WIND SPEED (GUSTS)
25 011230 MAXIMUM MEAN WIND SPEED
26 011231 MEAN WIND SPEED
27 011232 MINIMUM MEAN WIND SPEED
28 222000 QUALITY INFORMATION FOLLOW
29 031031 DATA PRESENT INDICATOR
30 031031 DATA PRESENT INDICATOR
31 031031 DATA PRESENT INDICATOR
32 031031 DATA PRESENT INDICATOR
33 031031 DATA PRESENT INDICATOR
34 031031 DATA PRESENT INDICATOR
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
49 031031 DATA PRESENT INDICATOR
50 031031 DATA PRESENT INDICATOR
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
53 031031 DATA PRESENT INDICATOR
54 031031 DATA PRESENT INDICATOR
55 031031 DATA PRESENT INDICATOR
56 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
57 001032 GENERATING APPLICATION
58 033007 % CONFIDENCE
59 033007 % CONFIDENCE
60 033007 % CONFIDENCE
61 033007 % CONFIDENCE
62 033007 % CONFIDENCE
63 033007 % CONFIDENCE
64 033007 % CONFIDENCE
65 033007 % CONFIDENCE
66 033007 % CONFIDENCE
67 033007 % CONFIDENCE
68 033007 % CONFIDENCE



69 033007 % CONFIDENCE
 70 033007 % CONFIDENCE
 71 033007 % CONFIDENCE
 72 033007 % CONFIDENCE
 73 033007 % CONFIDENCE
 74 033007 % CONFIDENCE
 75 033007 % CONFIDENCE
 76 033007 % CONFIDENCE
 77 033007 % CONFIDENCE
 78 033007 % CONFIDENCE
 79 033007 % CONFIDENCE
 80 033007 % CONFIDENCE
 81 033007 % CONFIDENCE
 82 033007 % CONFIDENCE
 83 033007 % CONFIDENCE
 84 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

1 WMO BLOCK NUMBE .8900000000E+02 NUMERIC
 2 WMO STATION NUM .5800000000E+02 NUMERIC
 3 TYPE OF STATION .0000000000E+00 CODE TABLE 2001
 4 YEAR .2004000000E+04 YEAR
 5 MONTH .1000000000E+01 MONTH
 6 DAY .7000000000E+01 DAY
 7 HOUR .0000000000E+00 HOUR
 8 MINUTE .0000000000E+00 MINUTE
 9 LATITUDE (HIGH -.6222000122E+02 DEGREE
 10 LONGITUDE (HIGH -.5897000122E+02 DEGREE
 11 HEIGHT OF STATI .1000000000E+02 M
 12 GROUND MINIMUM MISSING K
 13 MINIMUM TEMPERA MISSING K
 14 MAXIMUM TEMPERA MISSING K
 15 EVAPOTRANSPIRAT MISSING KG/M**2
 16 NET RADIATION I MISSING J/M**2
 17 TOTAL SUNSHINE MISSING MINUTE
 18 STATE OF GROUND MISSING CODE TABLE 20062
 19 SPECIAL PHENOME MISSING CODE TABLE 20192
 20 SPECIAL PHENOME MISSING CODE TABLE 20192
 21 SPECIAL PHENOME MISSING CODE TABLE 20192
 22 SPECIAL PHENOME MISSING CODE TABLE 20192
 23 HIGHEST GUST DU MISSING M/S
 24 MAXIMUM WIND SP MISSING M/S
 25 MAXIMUM MEAN WI MISSING M/S
 26 MEAN WIND SPEED MISSING M/S
 27 MINIMUM MEAN WI MISSING M/S
 28 QUALITY INFORMA .0000000000E+00
 29 DATA PRESENT IN .0000000000E+00 NUMERIC
 30 DATA PRESENT IN .0000000000E+00 NUMERIC
 31 DATA PRESENT IN .0000000000E+00 NUMERIC
 32 DATA PRESENT IN .0000000000E+00 NUMERIC
 33 DATA PRESENT IN .0000000000E+00 NUMERIC
 34 DATA PRESENT IN .0000000000E+00 NUMERIC
 35 DATA PRESENT IN .0000000000E+00 NUMERIC
 36 DATA PRESENT IN .0000000000E+00 NUMERIC
 37 DATA PRESENT IN .0000000000E+00 NUMERIC
 38 DATA PRESENT IN .0000000000E+00 NUMERIC
 39 DATA PRESENT IN .0000000000E+00 NUMERIC
 40 DATA PRESENT IN .0000000000E+00 NUMERIC
 41 DATA PRESENT IN .0000000000E+00 NUMERIC
 42 DATA PRESENT IN .0000000000E+00 NUMERIC
 43 DATA PRESENT IN .0000000000E+00 NUMERIC
 44 DATA PRESENT IN .0000000000E+00 NUMERIC
 45 DATA PRESENT IN .0000000000E+00 NUMERIC
 46 DATA PRESENT IN .0000000000E+00 NUMERIC
 47 DATA PRESENT IN .0000000000E+00 NUMERIC
 48 DATA PRESENT IN .0000000000E+00 NUMERIC
 49 DATA PRESENT IN .0000000000E+00 NUMERIC
 50 DATA PRESENT IN .0000000000E+00 NUMERIC
 51 DATA PRESENT IN .0000000000E+00 NUMERIC
 52 DATA PRESENT IN .0000000000E+00 NUMERIC
 53 DATA PRESENT IN .0000000000E+00 NUMERIC
 54 DATA PRESENT IN .0000000000E+00 NUMERIC
 55 DATA PRESENT IN .0000000000E+00 NUMERIC
 56 IDENTIFICATION .9800000000E+02 CODE TABLE 1031
 57 GENERATING APPL .1000000000E+01 CODE TABLE 1032
 58 % CONFIDENCE .7000000000E+02 NUMERIC
 59 % CONFIDENCE .7000000000E+02 NUMERIC
 60 % CONFIDENCE .7000000000E+02 NUMERIC
 61 % CONFIDENCE .7000000000E+02 NUMERIC
 62 % CONFIDENCE .7000000000E+02 NUMERIC
 63 % CONFIDENCE .7000000000E+02 NUMERIC
 64 % CONFIDENCE .7000000000E+02 NUMERIC
 65 % CONFIDENCE .7000000000E+02 NUMERIC
 66 % CONFIDENCE .7000000000E+02 NUMERIC
 67 % CONFIDENCE .7000000000E+02 NUMERIC
 68 % CONFIDENCE .7000000000E+02 NUMERIC
 69 % CONFIDENCE .7000000000E+02 NUMERIC
 70 % CONFIDENCE .7000000000E+02 NUMERIC
 71 % CONFIDENCE .7000000000E+02 NUMERIC
 72 % CONFIDENCE .7000000000E+02 NUMERIC
 73 % CONFIDENCE .7000000000E+02 NUMERIC



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74 % CONFIDENCE .7000000000E+02 NUMERIC
75 % CONFIDENCE .7000000000E+02 NUMERIC
76 % CONFIDENCE .7000000000E+02 NUMERIC
77 % CONFIDENCE .7000000000E+02 NUMERIC
78 % CONFIDENCE .7000000000E+02 NUMERIC
79 % CONFIDENCE .7000000000E+02 NUMERIC
80 % CONFIDENCE .7000000000E+02 NUMERIC
81 % CONFIDENCE .7000000000E+02 NUMERIC
82 % CONFIDENCE .7000000000E+02 NUMERIC
83 % CONFIDENCE .7000000000E+02 NUMERIC
84 % CONFIDENCE .7000000000E+02 NUMERIC
```




3.6 Synop land high level station

RDB type 1, subtype 1

```

ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 194
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE               0
    ORIGINATING CENTRE                   98
    UPDATE SEQUENCE NUMBER               1
    FLAG (PRESENCE OF SECTION 2)        128
    BUFR MESSAGE TYPE                    0
    BUFR MESSAGE SUBTYPE                 1
    VERSION NUMBER OF LOCAL TABLE      1
    YEAR                                  1
    MONTH                                 2
    DAY                                   1
    HOUR                                  10
    MINUTE                                0
    VERSION NUMBER OF MASTER TABLE     6
    BUFR MASTER TABLE                  0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                  52
    REPORT DATA BASE KEY
    RDB DATA TYPE                       1
    RDB DATA SUBTYPE                    1
    YEAR                                  2001
    MONTH                                 2
    DAY                                   1
    HOUR                                  10
    MINUTE                                0
    SECOND                                0
    LATITUDE 1                           51.18
    LONGITUDE 1                          8.48
    IDENTIFIER                            10427
    TOTAL BUFR MESSAGE LENGTH            194
    DAY (RDB INSERTION)                  1
    HOUR (RDB INSERTION)                  10
    MINUTE (RDB INSERTION)                13
    SECOND (RDB INSERTION)                45
    DAY (MDB ARRIVAL)                    1
    HOUR (MDB ARRIVAL)                   10
    MINUTE (MDB ARRIVAL)                  12
    SECOND (MDB ARRIVAL)                  35
    CORRECTION NUMBER                    0
    PART OF MESSAGE                       1
    CORRECTION NUMBER                    0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                    0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                    0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                    0
    PART OF MESSAGE                       0
    QUALITY CONTROL % CONF                69
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)          28
    RESERVED                              0
    NUMBER OF DATA SUBSETS               1
    FLAG (DATA TYPE/DATA COMPRESSION)    128

    DATA DESCRIPTORS (UNEXPANDED)
    1 307007
    2 013023
    3 013013

```

4 222000
5 101034
6 031031
7 001031
8 001032
9 101034
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 002001 TYPE OF STATION
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007001 HEIGHT OF STATION
12 010004 PRESSURE
13 007004 PRESSURE
14 010003 GEOPOTENTIAL
15 010061 3 HOUR PRESSURE CHANGE
16 010063 CHARACTERISTIC OF PRESSURE TENDENCY
17 011011 WIND DIRECTION AT 10 M
18 011012 WIND SPEED AT 10 M
19 012004 DRY BULB TEMPERATURE AT 2M
20 012006 DEW POINT TEMPERATURE AT 2M
21 013003 RELATIVE HUMIDITY
22 020001 HORIZONTAL VISIBILITY
23 020003 PRESENT WEATHER
24 020004 PAST WEATHER (1)
25 020005 PAST WEATHER (2)
26 020010 CLOUD COVER (TOTAL)
27 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
28 020011 CLOUD AMOUNT
29 020013 HEIGHT OF BASE OF CLOUD
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 020012 CLOUD TYPE
33 013023 TOTAL PRECIPITATION PAST 24 HOURS
34 013013 TOTAL SNOW DEPTH
35 222000 QUALITY INFORMATION FOLLOW
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
49 031031 DATA PRESENT INDICATOR
50 031031 DATA PRESENT INDICATOR
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
53 031031 DATA PRESENT INDICATOR
54 031031 DATA PRESENT INDICATOR
55 031031 DATA PRESENT INDICATOR
56 031031 DATA PRESENT INDICATOR
57 031031 DATA PRESENT INDICATOR
58 031031 DATA PRESENT INDICATOR
59 031031 DATA PRESENT INDICATOR
60 031031 DATA PRESENT INDICATOR
61 031031 DATA PRESENT INDICATOR
62 031031 DATA PRESENT INDICATOR
63 031031 DATA PRESENT INDICATOR
64 031031 DATA PRESENT INDICATOR
65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
71 001032 GENERATING APPLICATION
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
80 033007 % CONFIDENCE
81 033007 % CONFIDENCE
82 033007 % CONFIDENCE

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83 033007 % CONFIDENCE
84 033007 % CONFIDENCE
85 033007 % CONFIDENCE
86 033007 % CONFIDENCE
87 033007 % CONFIDENCE
88 033007 % CONFIDENCE
89 033007 % CONFIDENCE
90 033007 % CONFIDENCE
91 033007 % CONFIDENCE
92 033007 % CONFIDENCE
93 033007 % CONFIDENCE
94 033007 % CONFIDENCE
95 033007 % CONFIDENCE
96 033007 % CONFIDENCE
97 033007 % CONFIDENCE
98 033007 % CONFIDENCE
99 033007 % CONFIDENCE
100 033007 % CONFIDENCE
101 033007 % CONFIDENCE
102 033007 % CONFIDENCE
103 033007 % CONFIDENCE
104 033007 % CONFIDENCE
105 033007 % CONFIDENCE
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

1 WMO BLOCK NUMBE      0.1000000000E+02 NUMERIC
2 WMO STATION NUM     0.4270000000E+03 NUMERIC
3 TYPE OF STATION      0.1000000000E+01 CODE TABLE 2001
4 YEAR                 0.2001000000E+04 YEAR
5 MONTH                0.2000000000E+01 MONTH
6 DAY                  0.1000000000E+01 DAY
7 HOUR                 0.1000000000E+02 HOUR
8 MINUTE               0.0000000000E+00 MINUTE
9 LATITUDE (HIGH)     0.5118000000E+02 DEGREE
10 LONGITUDE (HIGH)   0.8480000000E+01 DEGREE
11 HEIGHT OF STATI    0.8590000000E+03 M
12 PRESSURE            0.9222000000E+05 PA
13 PRESSURE            0.8500000000E+05 PA
14 GEOPOTENTIAL        0.1467000000E+05 M**2/S**2
15 3 HOUR PRESSURE    0.2000000000E+02 PA
16 CHARACTERISTIC      0.0000000000E+00 CODE TABLE 10063
17 WIND DIRECTION      0.2800000000E+03 DEGREE TRUE
18 WIND SPEED AT 1    0.4000000000E+01 M/S
19 DRY BULB TEMPER     0.2687000000E+03 K
20 DEW POINT TEMPE    0.2682000000E+03 K
21 RELATIVE HUMIDI    MISSING %
22 HORIZONTAL VISI    0.4000000000E+03 M
23 PRESENT WEATHER    0.7100000000E+02 CODE TABLE 20003
24 PAST WEATHER (1)   0.8000000000E+01 CODE TABLE 20004
25 PAST WEATHER (2)   0.4000000000E+01 CODE TABLE 20005
26 CLOUD COVER (TO    0.1000000000E+03 %
27 VERTICAL SIGNIF    0.1000000000E+01 CODE TABLE 8002
28 CLOUD AMOUNT        0.7000000000E+01 CODE TABLE 20011
29 HEIGHT OF BASE     0.3000000000E+02 M
30 CLOUD TYPE          0.3700000000E+02 CODE TABLE 20012
31 CLOUD TYPE          0.6100000000E+02 CODE TABLE 20012
32 CLOUD TYPE          0.6000000000E+02 CODE TABLE 20012
33 TOTAL PRECIPITA    MISSING KG/M**2
34 TOTAL SNOW DEPT    MISSING M
35 QUALITY INFORMA    0.0000000000E+00
36 DATA PRESENT IN   0.0000000000E+00 NUMERIC
37 DATA PRESENT IN   0.0000000000E+00 NUMERIC
38 DATA PRESENT IN   0.0000000000E+00 NUMERIC
39 DATA PRESENT IN   0.0000000000E+00 NUMERIC
40 DATA PRESENT IN   0.0000000000E+00 NUMERIC
41 DATA PRESENT IN   0.0000000000E+00 NUMERIC
42 DATA PRESENT IN   0.0000000000E+00 NUMERIC
43 DATA PRESENT IN   0.0000000000E+00 NUMERIC
44 DATA PRESENT IN   0.0000000000E+00 NUMERIC
45 DATA PRESENT IN   0.0000000000E+00 NUMERIC
46 DATA PRESENT IN   0.0000000000E+00 NUMERIC
47 DATA PRESENT IN   0.0000000000E+00 NUMERIC
48 DATA PRESENT IN   0.0000000000E+00 NUMERIC
49 DATA PRESENT IN   0.0000000000E+00 NUMERIC
50 DATA PRESENT IN   0.0000000000E+00 NUMERIC
51 DATA PRESENT IN   0.0000000000E+00 NUMERIC
52 DATA PRESENT IN   0.0000000000E+00 NUMERIC
53 DATA PRESENT IN   0.0000000000E+00 NUMERIC
54 DATA PRESENT IN   0.0000000000E+00 NUMERIC
55 DATA PRESENT IN   0.0000000000E+00 NUMERIC
56 DATA PRESENT IN   0.0000000000E+00 NUMERIC
57 DATA PRESENT IN   0.0000000000E+00 NUMERIC
58 DATA PRESENT IN   0.0000000000E+00 NUMERIC
59 DATA PRESENT IN   0.0000000000E+00 NUMERIC
60 DATA PRESENT IN   0.0000000000E+00 NUMERIC
61 DATA PRESENT IN   0.0000000000E+00 NUMERIC
62 DATA PRESENT IN   0.0000000000E+00 NUMERIC
63 DATA PRESENT IN   0.0000000000E+00 NUMERIC
64 DATA PRESENT IN   0.0000000000E+00 NUMERIC
65 DATA PRESENT IN   0.0000000000E+00 NUMERIC
66 DATA PRESENT IN   0.0000000000E+00 NUMERIC
67 DATA PRESENT IN   0.0000000000E+00 NUMERIC

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68 DATA PRESENT IN      0.0000000000E+00 NUMERIC
69 DATA PRESENT IN      0.0000000000E+00 NUMERIC
70 IDENTIFICATION        0.9800000000E+02 CODE TABLE  1031
71 GENERATING APPL      0.1000000000E+01 CODE TABLE  1032
72 % CONFIDENCE          0.7000000000E+02 NUMERIC
73 % CONFIDENCE          0.7000000000E+02 NUMERIC
74 % CONFIDENCE          0.7000000000E+02 NUMERIC
75 % CONFIDENCE          0.7000000000E+02 NUMERIC
76 % CONFIDENCE          0.7000000000E+02 NUMERIC
77 % CONFIDENCE          0.7000000000E+02 NUMERIC
78 % CONFIDENCE          0.7000000000E+02 NUMERIC
79 % CONFIDENCE          0.7000000000E+02 NUMERIC
80 % CONFIDENCE          0.7000000000E+02 NUMERIC
81 % CONFIDENCE          0.7000000000E+02 NUMERIC
82 % CONFIDENCE          0.7500000000E+02 NUMERIC
83 % CONFIDENCE          0.7400000000E+02 NUMERIC
84 % CONFIDENCE          0.7900000000E+02 NUMERIC
85 % CONFIDENCE          0.7400000000E+02 NUMERIC
86 % CONFIDENCE          0.7700000000E+02 NUMERIC
87 % CONFIDENCE          0.7900000000E+02 NUMERIC
88 % CONFIDENCE          0.7000000000E+02 NUMERIC
89 % CONFIDENCE          0.7000000000E+02 NUMERIC
90 % CONFIDENCE          0.8000000000E+02 NUMERIC
91 % CONFIDENCE          0.7700000000E+02 NUMERIC
92 % CONFIDENCE          0.7000000000E+02 NUMERIC
93 % CONFIDENCE          0.6900000000E+02 NUMERIC
94 % CONFIDENCE          0.7500000000E+02 NUMERIC
95 % CONFIDENCE          0.7000000000E+02 NUMERIC
96 % CONFIDENCE          0.7000000000E+02 NUMERIC
97 % CONFIDENCE          0.7500000000E+02 NUMERIC
98 % CONFIDENCE          0.7000000000E+02 NUMERIC
99 % CONFIDENCE          0.7500000000E+02 NUMERIC
100 % CONFIDENCE         0.8400000000E+02 NUMERIC
101 % CONFIDENCE         0.8500000000E+02 NUMERIC
102 % CONFIDENCE         0.7500000000E+02 NUMERIC
103 % CONFIDENCE         0.7500000000E+02 NUMERIC
104 % CONFIDENCE         0.7000000000E+02 NUMERIC
105 % CONFIDENCE         0.7000000000E+02 NUMERIC
```

3.7 Synop ship abbreviated

RDB type 1 subtype 9

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ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
    25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 198
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 1
BUFR MESSAGE SUBTYPE             9
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             12
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

REPORT DATA BASE KEY

RDB DATA TYPE                   1
RDB DATA SUBTYPE                9
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             12
MINUTE                           0
SECOND                           0
LATITUDE 1                       49.30
LONGITUDE 1                      -4.20
IDENTIFIER                       ELML7
TOTAL BUFR MESSAGE LENGTH        198
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             12
MINUTE (RDB INSERTION)           20
SECOND (RDB INSERTION)           6
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)              12
MINUTE (MDB ARRIVAL)            15
SECOND (MDB ARRIVAL)            55
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      28
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)

1 308004
2 012005

```

3 010197
4 222000
5 101034
6 031031
7 001031
8 001032
9 101034
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001011 SHIP OR MOBILE LAND STATION IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 010004 PRESSURE
13 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
14 010061 3 HOUR PRESSURE CHANGE
15 010063 CHARACTERISTIC OF PRESSURE TENDENCY
16 011011 WIND DIRECTION AT 10 M
17 011012 WIND SPEED AT 10 M
18 012004 DRY BULB TEMPERATURE AT 2M
19 012006 DEW POINT TEMPERATURE AT 2M
20 013003 RELATIVE HUMIDITY
21 020001 HORIZONTAL VISIBILITY
22 020003 PRESENT WEATHER
23 020004 PAST WEATHER (1)
24 020005 PAST WEATHER (2)
25 020010 CLOUD COVER (TOTAL)
26 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
27 020011 CLOUD AMOUNT
28 020013 HEIGHT OF BASE OF CLOUD
29 020012 CLOUD TYPE
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 022042 SEA/WATER TEMPERATURE
33 012005 WET BULB TEMPERATURE AT 2M
34 010197 ANEMOMETER HEIGHT
35 222000 QUALITY INFORMATION FOLLOW
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
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46 031031 DATA PRESENT INDICATOR
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65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
71 001032 GENERATING APPLICATION
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
80 033007 % CONFIDENCE
81 033007 % CONFIDENCE



82 033007 % CONFIDENCE
 83 033007 % CONFIDENCE
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 97 033007 % CONFIDENCE
 98 033007 % CONFIDENCE
 99 033007 % CONFIDENCE
 100 033007 % CONFIDENCE
 101 033007 % CONFIDENCE
 102 033007 % CONFIDENCE
 103 033007 % CONFIDENCE
 104 033007 % CONFIDENCE
 105 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | |
|--------------------|-------------------|---------------------|-------|
| 1 SHIP OR MOBILE | 0.1009000000E+04 | CCITTIA5 | ELML7 |
| 2 DIRECTION OF MO | | MISSING DEGREE TRUE | |
| 3 SPEED OF MOTION | | MISSING M/S | |
| 4 TYPE OF STATION | 0.1000000000E+01 | CODE TABLE | 2001 |
| 5 YEAR | 0.2001000000E+04 | YEAR | |
| 6 MONTH | 0.2000000000E+01 | MONTH | |
| 7 DAY | 0.1000000000E+01 | DAY | |
| 8 HOUR | 0.1200000000E+02 | HOUR | |
| 9 MINUTE | 0.0000000000E+00 | MINUTE | |
| 10 LATITUDE (COARS | 0.4930000000E+02 | DEGREE | |
| 11 LONGITUDE (COAR | -0.4200000000E+01 | DEGREE | |
| 12 PRESSURE | | MISSING PA | |
| 13 PRESSURE REDUCE | 0.1028200000E+06 | PA | |
| 14 3 HOUR PRESSURE | | MISSING PA | |
| 15 CHARACTERISTIC | | MISSING CODE TABLE | 10063 |
| 16 WIND DIRECTION | | MISSING DEGREE TRUE | |
| 17 WIND SPEED AT 1 | | MISSING M/S | |
| 18 DRY BULB TEMPER | 0.2809000000E+03 | K | |
| 19 DEW POINT TEMPE | 0.2754000000E+03 | K | |
| 20 RELATIVE HUMIDI | | MISSING % | |
| 21 HORIZONTAL VISI | | MISSING M | |
| 22 PRESENT WEATHER | | MISSING CODE TABLE | 20003 |
| 23 PAST WEATHER (1 | | MISSING CODE TABLE | 20004 |
| 24 PAST WEATHER (2 | | MISSING CODE TABLE | 20005 |
| 25 CLOUD COVER (TO | | MISSING % | |
| 26 VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8002 |
| 27 CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 28 HEIGHT OF BASE | | MISSING M | |
| 29 CLOUD TYPE | 0.6200000000E+02 | CODE TABLE | 20012 |
| 30 CLOUD TYPE | 0.6100000000E+02 | CODE TABLE | 20012 |
| 31 CLOUD TYPE | 0.6000000000E+02 | CODE TABLE | 20012 |
| 32 SEA/WATER TEMPE | | MISSING K | |
| 33 WET BULB TEMPER | | MISSING K | |
| 34 ANEMOMETER HEIG | | MISSING M | |
| 35 QUALITY INFORMA | 0.0000000000E+00 | | |
| 36 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 37 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 38 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 39 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 40 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 41 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 42 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 43 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 44 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 45 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 46 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 47 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 48 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 49 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 50 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 51 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 52 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 53 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 54 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 55 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 56 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 57 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 58 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 59 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 60 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 61 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 62 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 63 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 64 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 65 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |

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66 DATA PRESENT IN 0.000000000E+00 NUMERIC
67 DATA PRESENT IN 0.000000000E+00 NUMERIC
68 DATA PRESENT IN 0.000000000E+00 NUMERIC
69 DATA PRESENT IN 0.000000000E+00 NUMERIC
70 IDENTIFICATION 0.980000000E+02 CODE TABLE 1031
71 GENERATING APPL 0.100000000E+01 CODE TABLE 1032
72 % CONFIDENCE 0.700000000E+02 NUMERIC
73 % CONFIDENCE 0.700000000E+02 NUMERIC
74 % CONFIDENCE 0.700000000E+02 NUMERIC
75 % CONFIDENCE 0.700000000E+02 NUMERIC
76 % CONFIDENCE 0.700000000E+02 NUMERIC
77 % CONFIDENCE 0.700000000E+02 NUMERIC
78 % CONFIDENCE 0.700000000E+02 NUMERIC
79 % CONFIDENCE 0.700000000E+02 NUMERIC
80 % CONFIDENCE 0.700000000E+02 NUMERIC
81 % CONFIDENCE 0.700000000E+02 NUMERIC
82 % CONFIDENCE 0.700000000E+02 NUMERIC
83 % CONFIDENCE 0.700000000E+02 NUMERIC
84 % CONFIDENCE 0.700000000E+02 NUMERIC
85 % CONFIDENCE 0.700000000E+02 NUMERIC
86 % CONFIDENCE 0.700000000E+02 NUMERIC
87 % CONFIDENCE 0.700000000E+02 NUMERIC
88 % CONFIDENCE 0.700000000E+02 NUMERIC
89 % CONFIDENCE 0.740000000E+02 NUMERIC
90 % CONFIDENCE 0.740000000E+02 NUMERIC
91 % CONFIDENCE 0.700000000E+02 NUMERIC
92 % CONFIDENCE 0.700000000E+02 NUMERIC
93 % CONFIDENCE 0.700000000E+02 NUMERIC
94 % CONFIDENCE 0.700000000E+02 NUMERIC
95 % CONFIDENCE 0.700000000E+02 NUMERIC
96 % CONFIDENCE 0.700000000E+02 NUMERIC
97 % CONFIDENCE 0.700000000E+02 NUMERIC
98 % CONFIDENCE 0.700000000E+02 NUMERIC
99 % CONFIDENCE 0.700000000E+02 NUMERIC
100 % CONFIDENCE 0.750000000E+02 NUMERIC
101 % CONFIDENCE 0.790000000E+02 NUMERIC
102 % CONFIDENCE 0.790000000E+02 NUMERIC
103 % CONFIDENCE 0.700000000E+02 NUMERIC
104 % CONFIDENCE 0.700000000E+02 NUMERIC
105 % CONFIDENCE 0.700000000E+02 NUMERIC
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3.8 Synop ship

RDB type 1 subtype 11

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 198
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 1
BUFR MESSAGE SUBTYPE             11
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

REPORT DATA BASE KEY

RDB DATA TYPE                    1
RDB DATA SUBTYPE                 11
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                           0
SECOND                           0
LATITUDE 1                        54.10
LONGITUDE 1                       12.10
IDENTIFIER                        Y3CW
TOTAL BUFR MESSAGE LENGTH         198
DAY (RDB INSERTION)               1
HOUR (RDB INSERTION)              10
MINUTE (RDB INSERTION)            3
SECOND (RDB INSERTION)            10
DAY (MDB ARRIVAL)                 1
HOUR (MDB ARRIVAL)                9
MINUTE (MDB ARRIVAL)              59
SECOND (MDB ARRIVAL)              19
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
QUALITY CONTROL % CONF            70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      28
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)

1 308004
2 012005

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3 010197
4 222000
5 101034
6 031031
7 001031
8 001032
9 101034
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001011 SHIP OR MOBILE LAND STATION IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 010004 PRESSURE
13 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
14 010061 3 HOUR PRESSURE CHANGE
15 010063 CHARACTERISTIC OF PRESSURE TENDENCY
16 011011 WIND DIRECTION AT 10 M
17 011012 WIND SPEED AT 10 M
18 012004 DRY BULB TEMPERATURE AT 2M
19 012006 DEW POINT TEMPERATURE AT 2M
20 013003 RELATIVE HUMIDITY
21 020001 HORIZONTAL VISIBILITY
22 020003 PRESENT WEATHER
23 020004 PAST WEATHER (1)
24 020005 PAST WEATHER (2)
25 020010 CLOUD COVER (TOTAL)
26 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
27 020011 CLOUD AMOUNT
28 020013 HEIGHT OF BASE OF CLOUD
29 020012 CLOUD TYPE
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 022042 SEA/WATER TEMPERATURE
33 012005 WET BULB TEMPERATURE AT 2M
34 010197 ANEMOMETER HEIGHT
35 222000 QUALITY INFORMATION FOLLOW
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
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65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
71 001032 GENERATING APPLICATION
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
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81 033007 % CONFIDENCE

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82 033007 % CONFIDENCE
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101 033007 % CONFIDENCE
102 033007 % CONFIDENCE
103 033007 % CONFIDENCE
104 033007 % CONFIDENCE
105 033007 % CONFIDENCE
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

 1 SHIP OR MOBILE          0.1009000000E+04 CCITTIA5          Y3CW
 2 DIRECTION OF MO        0.0000000000E+00 DEGREE TRUE
 3 SPEED OF MOTION        0.0000000000E+00 M/S
 4 TYPE OF STATION        0.1000000000E+01 CODE TABLE  2001
 5 YEAR                   0.2001000000E+04 YEAR
 6 MONTH                  0.2000000000E+01 MONTH
 7 DAY                    0.1000000000E+01 DAY
 8 HOUR                   0.1000000000E+02 HOUR
 9 MINUTE                 0.0000000000E+00 MINUTE
10 LATITUDE (COARS       0.5410000000E+02 DEGREE
11 LONGITUDE (COAR      0.1210000000E+02 DEGREE
12 PRESSURE              MISSING PA
13 PRESSURE REDUCE       0.1023300000E+06 PA
14 3 HOUR PRESSURE      -0.2000000000E+02 PA
15 CHARACTERISTIC       0.8000000000E+01 CODE TABLE  10063
16 WIND DIRECTION        0.3100000000E+03 DEGREE TRUE
17 WIND SPEED AT 1      0.3000000000E+01 M/S
18 DRY BULB TEMPER      0.2754000000E+03 K
19 DEW POINT TEMPE     0.2753000000E+03 K
20 RELATIVE HUMIDI      MISSING %
21 HORIZONTAL VISI      MISSING M
22 PRESENT WEATHER      MISSING CODE TABLE  20003
23 PAST WEATHER (1      MISSING CODE TABLE  20004
24 PAST WEATHER (2      MISSING CODE TABLE  20005
25 CLOUD COVER (TO      MISSING %
26 VERTICAL SIGNIF     0.1000000000E+01 CODE TABLE  8002
27 CLOUD AMOUNT         MISSING CODE TABLE  20011
28 HEIGHT OF BASE       MISSING M
29 CLOUD TYPE           0.6200000000E+02 CODE TABLE  20012
30 CLOUD TYPE           0.6100000000E+02 CODE TABLE  20012
31 CLOUD TYPE           0.6000000000E+02 CODE TABLE  20012
32 SEA/WATER TEMPE     MISSING K
33 WET BULB TEMPER     MISSING K
34 ANEMOMETER HEIG     0.1400000000E+02 M
35 QUALITY INFORMA     0.0000000000E+00
36 DATA PRESENT IN    0.0000000000E+00 NUMERIC
37 DATA PRESENT IN    0.0000000000E+00 NUMERIC
38 DATA PRESENT IN    0.0000000000E+00 NUMERIC
39 DATA PRESENT IN    0.0000000000E+00 NUMERIC
40 DATA PRESENT IN    0.0000000000E+00 NUMERIC
41 DATA PRESENT IN    0.0000000000E+00 NUMERIC
42 DATA PRESENT IN    0.0000000000E+00 NUMERIC
43 DATA PRESENT IN    0.0000000000E+00 NUMERIC
44 DATA PRESENT IN    0.0000000000E+00 NUMERIC
45 DATA PRESENT IN    0.0000000000E+00 NUMERIC
46 DATA PRESENT IN    0.0000000000E+00 NUMERIC
47 DATA PRESENT IN    0.0000000000E+00 NUMERIC
48 DATA PRESENT IN    0.0000000000E+00 NUMERIC
49 DATA PRESENT IN    0.0000000000E+00 NUMERIC
50 DATA PRESENT IN    0.0000000000E+00 NUMERIC
51 DATA PRESENT IN    0.0000000000E+00 NUMERIC
52 DATA PRESENT IN    0.0000000000E+00 NUMERIC
53 DATA PRESENT IN    0.0000000000E+00 NUMERIC
54 DATA PRESENT IN    0.0000000000E+00 NUMERIC
55 DATA PRESENT IN    0.0000000000E+00 NUMERIC
56 DATA PRESENT IN    0.0000000000E+00 NUMERIC
57 DATA PRESENT IN    0.0000000000E+00 NUMERIC
58 DATA PRESENT IN    0.0000000000E+00 NUMERIC
59 DATA PRESENT IN    0.0000000000E+00 NUMERIC
60 DATA PRESENT IN    0.0000000000E+00 NUMERIC
61 DATA PRESENT IN    0.0000000000E+00 NUMERIC
62 DATA PRESENT IN    0.0000000000E+00 NUMERIC
63 DATA PRESENT IN    0.0000000000E+00 NUMERIC
64 DATA PRESENT IN    0.0000000000E+00 NUMERIC
65 DATA PRESENT IN    0.0000000000E+00 NUMERIC
66 DATA PRESENT IN    0.0000000000E+00 NUMERIC

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67 DATA PRESENT IN 0.0000000000E+00 NUMERIC
68 DATA PRESENT IN 0.0000000000E+00 NUMERIC
69 DATA PRESENT IN 0.0000000000E+00 NUMERIC
70 IDENTIFICATION 0.9800000000E+02 CODE TABLE 1031
71 GENERATING APPL 0.1000000000E+01 CODE TABLE 1032
72 % CONFIDENCE 0.7000000000E+02 NUMERIC
73 % CONFIDENCE 0.7000000000E+02 NUMERIC
74 % CONFIDENCE 0.7000000000E+02 NUMERIC
75 % CONFIDENCE 0.7000000000E+02 NUMERIC
76 % CONFIDENCE 0.7000000000E+02 NUMERIC
77 % CONFIDENCE 0.7000000000E+02 NUMERIC
78 % CONFIDENCE 0.7000000000E+02 NUMERIC
79 % CONFIDENCE 0.7000000000E+02 NUMERIC
80 % CONFIDENCE 0.7000000000E+02 NUMERIC
81 % CONFIDENCE 0.9000000000E+02 NUMERIC
82 % CONFIDENCE 0.9000000000E+02 NUMERIC
83 % CONFIDENCE 0.7000000000E+02 NUMERIC
84 % CONFIDENCE 0.7000000000E+02 NUMERIC
85 % CONFIDENCE 0.7700000000E+02 NUMERIC
86 % CONFIDENCE 0.7900000000E+02 NUMERIC
87 % CONFIDENCE 0.7000000000E+02 NUMERIC
88 % CONFIDENCE 0.7000000000E+02 NUMERIC
89 % CONFIDENCE 0.7400000000E+02 NUMERIC
90 % CONFIDENCE 0.7400000000E+02 NUMERIC
91 % CONFIDENCE 0.7000000000E+02 NUMERIC
92 % CONFIDENCE 0.7000000000E+02 NUMERIC
93 % CONFIDENCE 0.7000000000E+02 NUMERIC
94 % CONFIDENCE 0.7000000000E+02 NUMERIC
95 % CONFIDENCE 0.7000000000E+02 NUMERIC
96 % CONFIDENCE 0.7000000000E+02 NUMERIC
97 % CONFIDENCE 0.7000000000E+02 NUMERIC
98 % CONFIDENCE 0.7000000000E+02 NUMERIC
99 % CONFIDENCE 0.7000000000E+02 NUMERIC
100 % CONFIDENCE 0.7500000000E+02 NUMERIC
101 % CONFIDENCE 0.7900000000E+02 NUMERIC
102 % CONFIDENCE 0.7900000000E+02 NUMERIC
103 % CONFIDENCE 0.7000000000E+02 NUMERIC
104 % CONFIDENCE 0.7000000000E+02 NUMERIC
105 % CONFIDENCE 0.7000000000E+02 NUMERIC
```

3.9 Synop ship second record

RDB type 1, subtype 12

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 242
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE                0
    ORIGINATING CENTRE                   98
    UPDATE SEQUENCE NUMBER                1
    FLAG (PRESENCE OF SECTION 2)         128
    BUFR MESSAGE TYPE                    1
    BUFR MESSAGE SUBTYPE                 12
    VERSION NUMBER OF LOCAL TABLE       1
    YEAR                                  4
    MONTH                                 1
    DAY                                   7
    HOUR                                  0
    MINUTE                                0
    VERSION NUMBER OF MASTER TABLE       6
    BUFR MASTER TABLE                   0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                  52
    REPORT DATA BASE KEY
    RDB DATA TYPE                       1
    RDB DATA SUBTYPE                    12
    YEAR                                  2004
    MONTH                                 1
    DAY                                   7
    HOUR                                  0
    MINUTE                                0
    SECOND                                0
    LATITUDE 1                           39.20
    LONGITUDE 1                          129.50
    IDENTIFIER                            UCDM
    TOTAL BUFR MESSAGE LENGTH            242
    DAY (RDB INSERTION)                   7
    HOUR (RDB INSERTION)                  0
    MINUTE (RDB INSERTION)                29
    SECOND (RDB INSERTION)                18
    DAY (MDB ARRIVAL)                     7
    HOUR (MDB ARRIVAL)                   0
    MINUTE (MDB ARRIVAL)                  28
    SECOND (MDB ARRIVAL)                   39
    CORRECTION NUMBER                     3
    PART OF MESSAGE                       1
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    QUALITY CONTROL % CONF                 70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)          64
    RESERVED                              0
    NUMBER OF DATA SUBSETS                1
    FLAG (DATA TYPE/DATA COMPRESSION)     128

DATA DESCRIPTORS (UNEXPANDED)
1 301036
2 012015
3 012014

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4 302024
5 022001
6 022011
7 022021
8 013031
9 014015
10 014031
11 020063
12 020063
13 020063
14 020063
15 020033
16 020031
17 020032
18 020034
19 020037
20 020038
21 020036
22 222000
23 101039
24 031031
25 001031
26 001032
27 101039
28 033007

DATA DESCRIPTORS (EXPANDED)

1 001011 SHIP OR MOBILE LAND STATION IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 012015 MINIMUM TEMPERATURE AT 2M, PAST 12 HOURS
13 012014 MAXIMUM TEMPERATURE AT 2M, PAST 12 HOURS
14 022002 DIRECTION OF WIND WAVES
15 022012 PERIOD OF WIND WAVES
16 022022 HEIGHT OF WIND WAVES
17 022003 DIRECTION OF SWELL WAVES
18 022013 PERIOD OF SWELL WAVES
19 022023 HEIGHT OF SWELL WAVES
20 022003 DIRECTION OF SWELL WAVES
21 022013 PERIOD OF SWELL WAVES
22 022023 HEIGHT OF SWELL WAVES
23 022001 DIRECTION OF WAVES
24 022011 PERIOD OF WAVES
25 022021 HEIGHT OF WAVES
26 013031 EVAPOTRANSPIRATION
27 014015 NET RADIATION INTEGRATED OVER 24HOURS
28 014031 TOTAL SUNSHINE
29 020063 SPECIAL PHENOMENA
30 020063 SPECIAL PHENOMENA
31 020063 SPECIAL PHENOMENA
32 020063 SPECIAL PHENOMENA
33 020033 CAUSE OF ICE ACCRETION
34 020031 ICE DEPOSIT (THICKNESS)
35 020032 RATE OF ICE ACCRETION
36 020034 SEA ICE CONCENTRATION
37 020037 ICE DEVELOPMENT
38 020038 BEARING OF ICE EDGE
39 020036 ICE SITUATION
40 222000 QUALITY INFORMATION FOLLOW
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
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64 031031 DATA PRESENT INDICATOR

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65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
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72 031031 DATA PRESENT INDICATOR
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75 031031 DATA PRESENT INDICATOR
76 031031 DATA PRESENT INDICATOR
77 031031 DATA PRESENT INDICATOR
78 031031 DATA PRESENT INDICATOR
79 031031 DATA PRESENT INDICATOR
80 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
81 001032 GENERATING APPLICATION
82 033007 % CONFIDENCE
83 033007 % CONFIDENCE
84 033007 % CONFIDENCE
85 033007 % CONFIDENCE
86 033007 % CONFIDENCE
87 033007 % CONFIDENCE
88 033007 % CONFIDENCE
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116 033007 % CONFIDENCE
117 033007 % CONFIDENCE
118 033007 % CONFIDENCE
119 033007 % CONFIDENCE
120 033007 % CONFIDENCE

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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

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1 SHIP OR MOBILE .1009000000E+04 CCITTIA5 UCDM
2 DIRECTION OF MO .3600000000E+03 DEGREE TRUE
3 SPEED OF MOTION .7000000000E+01 M/S
4 TYPE OF STATION .1000000000E+01 CODE TABLE 2001
5 YEAR .2004000000E+04 YEAR
6 MONTH .1000000000E+01 MONTH
7 DAY .7000000000E+01 DAY
8 HOUR .0000000000E+00 HOUR
9 MINUTE .0000000000E+00 MINUTE
10 LATITUDE (COARS .3920000076E+02 DEGREE
11 LONGITUDE (COAR .1295000000E+03 DEGREE
12 MINIMUM TEMPERA MISSING K
13 MAXIMUM TEMPERA MISSING K
14 DIRECTION OF WI MISSING DEGREE TRUE
15 PERIOD OF WIND .3000000000E+01 S
16 HEIGHT OF WIND .1000000000E+01 M
17 DIRECTION OF SW MISSING DEGREE TRUE
18 PERIOD OF SWELL MISSING S
19 HEIGHT OF SWELL MISSING M
20 DIRECTION OF SW MISSING DEGREE TRUE
21 PERIOD OF SWELL MISSING S
22 HEIGHT OF SWELL MISSING M
23 DIRECTION OF WA MISSING DEGREE TRUE
24 PERIOD OF WAVES MISSING S
25 HEIGHT OF WAVES MISSING M
26 EVAPOTRANSPIRAT MISSING KG/M**2
27 NET RADIATION I MISSING J/M**2
28 TOTAL SUNSHINE MISSING MINUTE
29 SPECIAL PHENOME MISSING CODE TABLE 20063
30 SPECIAL PHENOME MISSING CODE TABLE 20063
31 SPECIAL PHENOME MISSING CODE TABLE 20063
32 SPECIAL PHENOME MISSING CODE TABLE 20063
33 CAUSE OF ICE AC MISSING FLAG TABLE 20033

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34 ICE DEPOSIT (TH MISSING M
35 RATE OF ICE ACC MISSING CODE TABLE 20032
36 SEA ICE CONCETR MISSING CODE TABLE 20034
37 ICE DEVELOPMENT MISSING CODE TABLE 20037
38 BEARING OF ICE MISSING DEGREE TRUE
39 ICE SITUATION MISSING CODE TABLE 20036
40 QUALITY INFORMA .0000000000E+00
41 DATA PRESENT IN .0000000000E+00 NUMERIC
42 DATA PRESENT IN .0000000000E+00 NUMERIC
43 DATA PRESENT IN .0000000000E+00 NUMERIC
44 DATA PRESENT IN .0000000000E+00 NUMERIC
45 DATA PRESENT IN .0000000000E+00 NUMERIC
46 DATA PRESENT IN .0000000000E+00 NUMERIC
47 DATA PRESENT IN .0000000000E+00 NUMERIC
48 DATA PRESENT IN .0000000000E+00 NUMERIC
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76 DATA PRESENT IN .0000000000E+00 NUMERIC
77 DATA PRESENT IN .0000000000E+00 NUMERIC
78 DATA PRESENT IN .0000000000E+00 NUMERIC
79 DATA PRESENT IN .0000000000E+00 NUMERIC
80 IDENTIFICATION .9800000000E+02 CODE TABLE 1031
81 GENERATING APPL .1000000000E+01 CODE TABLE 1032
82 % CONFIDENCE .7000000000E+02 NUMERIC
83 % CONFIDENCE .7000000000E+02 NUMERIC
84 % CONFIDENCE .7000000000E+02 NUMERIC
85 % CONFIDENCE .7000000000E+02 NUMERIC
86 % CONFIDENCE .7000000000E+02 NUMERIC
87 % CONFIDENCE .7000000000E+02 NUMERIC
88 % CONFIDENCE .7000000000E+02 NUMERIC
89 % CONFIDENCE .7000000000E+02 NUMERIC
90 % CONFIDENCE .7000000000E+02 NUMERIC
91 % CONFIDENCE .8700000000E+02 NUMERIC
92 % CONFIDENCE .8700000000E+02 NUMERIC
93 % CONFIDENCE .7000000000E+02 NUMERIC
94 % CONFIDENCE .7000000000E+02 NUMERIC
95 % CONFIDENCE .7000000000E+02 NUMERIC
96 % CONFIDENCE .7000000000E+02 NUMERIC
97 % CONFIDENCE .7000000000E+02 NUMERIC
98 % CONFIDENCE .7000000000E+02 NUMERIC
99 % CONFIDENCE .7000000000E+02 NUMERIC
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118 % CONFIDENCE .7000000000E+02 NUMERIC
119 % CONFIDENCE .7000000000E+02 NUMERIC
120 % CONFIDENCE .7000000000E+02 NUMERIC
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3.10 Synop ship (auto)

RDB type 1, subtype 13

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          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 198
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                1
BUFR MESSAGE SUBTYPE             13
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                            0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   1
RDB DATA SUBTYPE                13
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                            0
SECOND                            0
LATITUDE 1                       27.00
LONGITUDE 1                      -65.40
IDENTIFIER                       S6IG
TOTAL BUFR MESSAGE LENGTH        198
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             10
MINUTE (RDB INSERTION)           3
SECOND (RDB INSERTION)           12
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               9
MINUTE (MDB ARRIVAL)             59
SECOND (MDB ARRIVAL)             19
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      28
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

1 308004
2 012005

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3 010197
4 222000
5 101034
6 031031
7 001031
8 001032
9 101034
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001011 SHIP OR MOBILE LAND STATION IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 010004 PRESSURE
13 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
14 010061 3 HOUR PRESSURE CHANGE
15 010063 CHARACTERISTIC OF PRESSURE TENDENCY
16 011011 WIND DIRECTION AT 10 M
17 011012 WIND SPEED AT 10 M
18 012004 DRY BULB TEMPERATURE AT 2M
19 012006 DEW POINT TEMPERATURE AT 2M
20 013003 RELATIVE HUMIDITY
21 020001 HORIZONTAL VISIBILITY
22 020003 PRESENT WEATHER
23 020004 PAST WEATHER (1)
24 020005 PAST WEATHER (2)
25 020010 CLOUD COVER (TOTAL)
26 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
27 020011 CLOUD AMOUNT
28 020013 HEIGHT OF BASE OF CLOUD
29 020012 CLOUD TYPE
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 022042 SEA/WATER TEMPERATURE
33 012005 WET BULB TEMPERATURE AT 2M
34 010197 ANEMOMETER HEIGHT
35 222000 QUALITY INFORMATION FOLLOW
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
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66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
71 001032 GENERATING APPLICATION
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
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 101 033007 % CONFIDENCE
 102 033007 % CONFIDENCE
 103 033007 % CONFIDENCE
 104 033007 % CONFIDENCE
 105 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|-----------------|-------------------|--------------------|-------|
| 1 | SHIP OR MOBILE | 0.1009000000E+04 | CCITTIA5 | S6IG |
| 2 | DIRECTION OF MO | 0.2700000000E+03 | DEGREE TRUE | |
| 3 | SPEED OF MOTION | 0.9000000000E+01 | M/S | |
| 4 | TYPE OF STATION | 0.0000000000E+00 | CODE TABLE | 2001 |
| 5 | YEAR | 0.2001000000E+04 | YEAR | |
| 6 | MONTH | 0.2000000000E+01 | MONTH | |
| 7 | DAY | 0.1000000000E+01 | DAY | |
| 8 | HOUR | 0.1000000000E+02 | HOUR | |
| 9 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 10 | LATITUDE (COARS | 0.2700000000E+02 | DEGREE | |
| 11 | LONGITUDE (COAR | -0.6540000000E+02 | DEGREE | |
| 12 | PRESSURE | | MISSING PA | |
| 13 | PRESSURE REDUCE | 0.1024500000E+06 | PA | |
| 14 | 3 HOUR PRESSURE | 0.0000000000E+00 | PA | |
| 15 | CHARACTERISTIC | 0.4000000000E+01 | CODE TABLE | 10063 |
| 16 | WIND DIRECTION | 0.1400000000E+03 | DEGREE TRUE | |
| 17 | WIND SPEED AT 1 | 0.4000000000E+01 | M/S | |
| 18 | DRY BULB TEMPER | 0.2946000000E+03 | K | |
| 19 | DEW POINT TEMPE | 0.2893000000E+03 | K | |
| 20 | RELATIVE HUMIDI | | MISSING % | |
| 21 | HORIZONTAL VISI | | MISSING M | |
| 22 | PRESENT WEATHER | | MISSING CODE TABLE | 20003 |
| 23 | PAST WEATHER (1 | | MISSING CODE TABLE | 20004 |
| 24 | PAST WEATHER (2 | | MISSING CODE TABLE | 20005 |
| 25 | CLOUD COVER (TO | | MISSING % | |
| 26 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8002 |
| 27 | CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 28 | HEIGHT OF BASE | | MISSING M | |
| 29 | CLOUD TYPE | 0.6200000000E+02 | CODE TABLE | 20012 |
| 30 | CLOUD TYPE | 0.6100000000E+02 | CODE TABLE | 20012 |
| 31 | CLOUD TYPE | 0.6000000000E+02 | CODE TABLE | 20012 |
| 32 | SEA/WATER TEMPE | | MISSING K | |
| 33 | WET BULB TEMPER | | MISSING K | |
| 34 | ANEMOMETER HEIG | | MISSING M | |
| 35 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 36 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 37 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 38 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 39 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 40 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 41 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 42 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 43 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 44 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 45 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 46 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 47 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 48 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 49 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 50 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 51 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 52 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 53 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 54 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 55 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 56 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 57 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 58 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 59 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 60 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 61 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 62 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 63 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 64 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 65 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 66 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |



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67 DATA PRESENT IN 0.0000000000E+00 NUMERIC
68 DATA PRESENT IN 0.0000000000E+00 NUMERIC
69 DATA PRESENT IN 0.0000000000E+00 NUMERIC
70 IDENTIFICATION 0.9800000000E+02 CODE TABLE 1031
71 GENERATING APPL 0.1000000000E+01 CODE TABLE 1032
72 % CONFIDENCE 0.7000000000E+02 NUMERIC
73 % CONFIDENCE 0.7000000000E+02 NUMERIC
74 % CONFIDENCE 0.7000000000E+02 NUMERIC
75 % CONFIDENCE 0.7000000000E+02 NUMERIC
76 % CONFIDENCE 0.7000000000E+02 NUMERIC
77 % CONFIDENCE 0.7000000000E+02 NUMERIC
78 % CONFIDENCE 0.7000000000E+02 NUMERIC
79 % CONFIDENCE 0.7000000000E+02 NUMERIC
80 % CONFIDENCE 0.7000000000E+02 NUMERIC
81 % CONFIDENCE 0.8200000000E+02 NUMERIC
82 % CONFIDENCE 0.8200000000E+02 NUMERIC
83 % CONFIDENCE 0.7000000000E+02 NUMERIC
84 % CONFIDENCE 0.7000000000E+02 NUMERIC
85 % CONFIDENCE 0.7700000000E+02 NUMERIC
86 % CONFIDENCE 0.7900000000E+02 NUMERIC
87 % CONFIDENCE 0.7000000000E+02 NUMERIC
88 % CONFIDENCE 0.7000000000E+02 NUMERIC
89 % CONFIDENCE 0.7400000000E+02 NUMERIC
90 % CONFIDENCE 0.7400000000E+02 NUMERIC
91 % CONFIDENCE 0.7000000000E+02 NUMERIC
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96 % CONFIDENCE 0.7000000000E+02 NUMERIC
97 % CONFIDENCE 0.7000000000E+02 NUMERIC
98 % CONFIDENCE 0.7000000000E+02 NUMERIC
99 % CONFIDENCE 0.7000000000E+02 NUMERIC
100 % CONFIDENCE 0.7500000000E+02 NUMERIC
101 % CONFIDENCE 0.7900000000E+02 NUMERIC
102 % CONFIDENCE 0.7900000000E+02 NUMERIC
103 % CONFIDENCE 0.7000000000E+02 NUMERIC
104 % CONFIDENCE 0.7000000000E+02 NUMERIC
105 % CONFIDENCE 0.7000000000E+02 NUMERIC
```

3.11 Synop ship auto second record

RDB type 1, subtype 14

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 242
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE               0
    ORIGINATING CENTRE                   98
    UPDATE SEQUENCE NUMBER               1
    FLAG (PRESENCE OF SECTION 2)         128
    BUFR MESSAGE TYPE                    1
    BUFR MESSAGE SUBTYPE                 14
    VERSION NUMBER OF LOCAL TABLE       1
    YEAR                                  4
    MONTH                                 1
    DAY                                   7
    HOUR                                  0
    MINUTE                                0
    VERSION NUMBER OF MASTER TABLE      6
    BUFR MASTER TABLE                   0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                   52
    REPORT DATA BASE KEY
    RDB DATA TYPE                        1
    RDB DATA SUBTYPE                     14
    YEAR                                  2004
    MONTH                                  1
    DAY                                    7
    HOUR                                  0
    MINUTE                                 0
    SECOND                                 0
    LATITUDE 1                            54.00
    LONGITUDE 1                           8.30
    IDENTIFIER                             DFPC
    TOTAL BUFR MESSAGE LENGTH             242
    DAY (RDB INSERTION)                   7
    HOUR (RDB INSERTION)                   0
    MINUTE (RDB INSERTION)                 34
    SECOND (RDB INSERTION)                 26
    DAY (MDB ARRIVAL)                     7
    HOUR (MDB ARRIVAL)                     0
    MINUTE (MDB ARRIVAL)                   34
    SECOND (MDB ARRIVAL)                   16
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        1
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    QUALITY CONTROL % CONF                 70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)           64
    RESERVED                               0
    NUMBER OF DATA SUBSETS                1
    FLAG (DATA TYPE/DATA COMPRESSION)     128

    DATA DESCRIPTORS (UNEXPANDED)
    1 301036
    2 012015
    3 012014

```

4 302024
5 022001
6 022011
7 022021
8 013031
9 014015
10 014031
11 020063
12 020063
13 020063
14 020063
15 020033
16 020031
17 020032
18 020034
19 020037
20 020038
21 020036
22 222000
23 101039
24 031031
25 001031
26 001032
27 101039
28 033007

DATA DESCRIPTORS (EXPANDED)

1 001011 SHIP OR MOBILE LAND STATION IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 012015 MINIMUM TEMPERATURE AT 2M, PAST 12 HOURS
13 012014 MAXIMUM TEMPERATURE AT 2M, PAST 12 HOURS
14 022002 DIRECTION OF WIND WAVES
15 022012 PERIOD OF WIND WAVES
16 022022 HEIGHT OF WIND WAVES
17 022003 DIRECTION OF SWELL WAVES
18 022013 PERIOD OF SWELL WAVES
19 022023 HEIGHT OF SWELL WAVES
20 022003 DIRECTION OF SWELL WAVES
21 022013 PERIOD OF SWELL WAVES
22 022023 HEIGHT OF SWELL WAVES
23 022001 DIRECTION OF WAVES
24 022011 PERIOD OF WAVES
25 022021 HEIGHT OF WAVES
26 013031 EVAPOTRANSPIRATION
27 014015 NET RADIATION INTEGRATED OVER 24HOURS
28 014031 TOTAL SUNSHINE
29 020063 SPECIAL PHENOMENA
30 020063 SPECIAL PHENOMENA
31 020063 SPECIAL PHENOMENA
32 020063 SPECIAL PHENOMENA
33 020033 CAUSE OF ICE ACCRETION
34 020031 ICE DEPOSIT (THICKNESS)
35 020032 RATE OF ICE ACCRETION
36 020034 SEA ICE CONCENTRATION
37 020037 ICE DEVELOPMENT
38 020038 BEARING OF ICE EDGE
39 020036 ICE SITUATION
40 222000 QUALITY INFORMATION FOLLOW
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
49 031031 DATA PRESENT INDICATOR
50 031031 DATA PRESENT INDICATOR
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
53 031031 DATA PRESENT INDICATOR
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59 031031 DATA PRESENT INDICATOR
60 031031 DATA PRESENT INDICATOR
61 031031 DATA PRESENT INDICATOR
62 031031 DATA PRESENT INDICATOR
63 031031 DATA PRESENT INDICATOR
64 031031 DATA PRESENT INDICATOR

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65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 031031 DATA PRESENT INDICATOR
71 031031 DATA PRESENT INDICATOR
72 031031 DATA PRESENT INDICATOR
73 031031 DATA PRESENT INDICATOR
74 031031 DATA PRESENT INDICATOR
75 031031 DATA PRESENT INDICATOR
76 031031 DATA PRESENT INDICATOR
77 031031 DATA PRESENT INDICATOR
78 031031 DATA PRESENT INDICATOR
79 031031 DATA PRESENT INDICATOR
80 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
81 001032 GENERATING APPLICATION
82 033007 % CONFIDENCE
83 033007 % CONFIDENCE
84 033007 % CONFIDENCE
85 033007 % CONFIDENCE
86 033007 % CONFIDENCE
87 033007 % CONFIDENCE
88 033007 % CONFIDENCE
89 033007 % CONFIDENCE
90 033007 % CONFIDENCE
91 033007 % CONFIDENCE
92 033007 % CONFIDENCE
93 033007 % CONFIDENCE
94 033007 % CONFIDENCE
95 033007 % CONFIDENCE
96 033007 % CONFIDENCE
97 033007 % CONFIDENCE
98 033007 % CONFIDENCE
99 033007 % CONFIDENCE
100 033007 % CONFIDENCE
101 033007 % CONFIDENCE
102 033007 % CONFIDENCE
103 033007 % CONFIDENCE
104 033007 % CONFIDENCE
105 033007 % CONFIDENCE
106 033007 % CONFIDENCE
107 033007 % CONFIDENCE
108 033007 % CONFIDENCE
109 033007 % CONFIDENCE
110 033007 % CONFIDENCE
111 033007 % CONFIDENCE
112 033007 % CONFIDENCE
113 033007 % CONFIDENCE
114 033007 % CONFIDENCE
115 033007 % CONFIDENCE
116 033007 % CONFIDENCE
117 033007 % CONFIDENCE
118 033007 % CONFIDENCE
119 033007 % CONFIDENCE
120 033007 % CONFIDENCE

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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

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```

1 SHIP OR MOBILE .1009000000E+04 CCITTIA5 DFPC
2 DIRECTION OF MO .9000000000E+02 DEGREE TRUE
3 SPEED OF MOTION .1000000000E+01 M/S
4 TYPE OF STATION .0000000000E+00 CODE TABLE 2001
5 YEAR .2004000000E+04 YEAR
6 MONTH .1000000000E+01 MONTH
7 DAY .7000000000E+01 DAY
8 HOUR .0000000000E+00 HOUR
9 MINUTE .0000000000E+00 MINUTE
10 LATITUDE (COARS .5400000000E+02 DEGREE
11 LONGITUDE (COAR .8300000191E+01 DEGREE
12 MINIMUM TEMPERA MISSING K
13 MAXIMUM TEMPERA MISSING K
14 DIRECTION OF WI MISSING DEGREE TRUE
15 PERIOD OF WIND MISSING S
16 HEIGHT OF WIND MISSING M
17 DIRECTION OF SW MISSING DEGREE TRUE
18 PERIOD OF SWELL MISSING S
19 HEIGHT OF SWELL MISSING M
20 DIRECTION OF SW MISSING DEGREE TRUE
21 PERIOD OF SWELL MISSING S
22 HEIGHT OF SWELL MISSING M
23 DIRECTION OF WA MISSING DEGREE TRUE
24 PERIOD OF WAVES MISSING S
25 HEIGHT OF WAVES MISSING M
26 EVAPOTRANSPIRAT MISSING KG/M**2
27 NET RADIATION I MISSING J/M**2
28 TOTAL SUNSHINE MISSING MINUTE
29 SPECIAL PHENOME MISSING CODE TABLE 20063
30 SPECIAL PHENOME MISSING CODE TABLE 20063
31 SPECIAL PHENOME MISSING CODE TABLE 20063
32 SPECIAL PHENOME MISSING CODE TABLE 20063
33 CAUSE OF ICE AC MISSING FLAG TABLE 20033

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34 ICE DEPOSIT (TH MISSING M
35 RATE OF ICE ACC MISSING CODE TABLE 20032
36 SEA ICE CONCETR MISSING CODE TABLE 20034
37 ICE DEVELOPMENT MISSING CODE TABLE 20037
38 BEARING OF ICE MISSING DEGREE TRUE
39 ICE SITUATION MISSING CODE TABLE 20036
40 QUALITY INFORMA .0000000000E+00
41 DATA PRESENT IN .0000000000E+00 NUMERIC
42 DATA PRESENT IN .0000000000E+00 NUMERIC
43 DATA PRESENT IN .0000000000E+00 NUMERIC
44 DATA PRESENT IN .0000000000E+00 NUMERIC
45 DATA PRESENT IN .0000000000E+00 NUMERIC
46 DATA PRESENT IN .0000000000E+00 NUMERIC
47 DATA PRESENT IN .0000000000E+00 NUMERIC
48 DATA PRESENT IN .0000000000E+00 NUMERIC
49 DATA PRESENT IN .0000000000E+00 NUMERIC
50 DATA PRESENT IN .0000000000E+00 NUMERIC
51 DATA PRESENT IN .0000000000E+00 NUMERIC
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54 DATA PRESENT IN .0000000000E+00 NUMERIC
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64 DATA PRESENT IN .0000000000E+00 NUMERIC
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68 DATA PRESENT IN .0000000000E+00 NUMERIC
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70 DATA PRESENT IN .0000000000E+00 NUMERIC
71 DATA PRESENT IN .0000000000E+00 NUMERIC
72 DATA PRESENT IN .0000000000E+00 NUMERIC
73 DATA PRESENT IN .0000000000E+00 NUMERIC
74 DATA PRESENT IN .0000000000E+00 NUMERIC
75 DATA PRESENT IN .0000000000E+00 NUMERIC
76 DATA PRESENT IN .0000000000E+00 NUMERIC
77 DATA PRESENT IN .0000000000E+00 NUMERIC
78 DATA PRESENT IN .0000000000E+00 NUMERIC
79 DATA PRESENT IN .0000000000E+00 NUMERIC
80 IDENTIFICATION .9800000000E+02 CODE TABLE 1031
81 GENERATING APPL .1000000000E+01 CODE TABLE 1032
82 % CONFIDENCE .7000000000E+02 NUMERIC
83 % CONFIDENCE .7000000000E+02 NUMERIC
84 % CONFIDENCE .7000000000E+02 NUMERIC
85 % CONFIDENCE .7000000000E+02 NUMERIC
86 % CONFIDENCE .7000000000E+02 NUMERIC
87 % CONFIDENCE .7000000000E+02 NUMERIC
88 % CONFIDENCE .7000000000E+02 NUMERIC
89 % CONFIDENCE .7000000000E+02 NUMERIC
90 % CONFIDENCE .7000000000E+02 NUMERIC
91 % CONFIDENCE .8800000000E+02 NUMERIC
92 % CONFIDENCE .8800000000E+02 NUMERIC
93 % CONFIDENCE .7000000000E+02 NUMERIC
94 % CONFIDENCE .7000000000E+02 NUMERIC
95 % CONFIDENCE .7000000000E+02 NUMERIC
96 % CONFIDENCE .7000000000E+02 NUMERIC
97 % CONFIDENCE .7000000000E+02 NUMERIC
98 % CONFIDENCE .7000000000E+02 NUMERIC
99 % CONFIDENCE .7000000000E+02 NUMERIC
100 % CONFIDENCE .7000000000E+02 NUMERIC
101 % CONFIDENCE .7000000000E+02 NUMERIC
102 % CONFIDENCE .7000000000E+02 NUMERIC
103 % CONFIDENCE .7000000000E+02 NUMERIC
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105 % CONFIDENCE .7000000000E+02 NUMERIC
106 % CONFIDENCE .7000000000E+02 NUMERIC
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114 % CONFIDENCE .7000000000E+02 NUMERIC
115 % CONFIDENCE .7000000000E+02 NUMERIC
116 % CONFIDENCE .7000000000E+02 NUMERIC
117 % CONFIDENCE .7000000000E+02 NUMERIC
118 % CONFIDENCE .7000000000E+02 NUMERIC
119 % CONFIDENCE .7000000000E+02 NUMERIC
120 % CONFIDENCE .7000000000E+02 NUMERIC
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3.12 Synop ship reduced

RDB type 1, subtype 19

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ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
  BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 198
BUFR EDITION NUMBER              3
1
  BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 1
BUFR MESSAGE SUBTYPE             19
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             12
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
  BUFR SECTION 2

LENGTH OF SECTION 2              52

REPORT DATA BASE KEY

RDB DATA TYPE                    1
RDB DATA SUBTYPE                 19
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             12
MINUTE                           0
SECOND                           0
LATITUDE 1                        47.40
LONGITUDE 1                       -70.30
IDENTIFIER                         VD2235
TOTAL BUFR MESSAGE LENGTH         198
DAY (RDB INSERTION)               1
HOUR (RDB INSERTION)              11
MINUTE (RDB INSERTION)            49
SECOND (RDB INSERTION)            14
DAY (MDB ARRIVAL)                 1
HOUR (MDB ARRIVAL)                11
MINUTE (MDB ARRIVAL)              44
SECOND (MDB ARRIVAL)              53
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
QUALITY CONTROL % CONF            70
1
  BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      28
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)

1 308004
2 012005

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3 010197
4 222000
5 101034
6 031031
7 001031
8 001032
9 101034
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001011 SHIP OR MOBILE LAND STATION IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 010004 PRESSURE
13 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
14 010061 3 HOUR PRESSURE CHANGE
15 010063 CHARACTERISTIC OF PRESSURE TENDENCY
16 011011 WIND DIRECTION AT 10 M
17 011012 WIND SPEED AT 10 M
18 012004 DRY BULB TEMPERATURE AT 2M
19 012006 DEW POINT TEMPERATURE AT 2M
20 013003 RELATIVE HUMIDITY
21 020001 HORIZONTAL VISIBILITY
22 020003 PRESENT WEATHER
23 020004 PAST WEATHER (1)
24 020005 PAST WEATHER (2)
25 020010 CLOUD COVER (TOTAL)
26 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
27 020011 CLOUD AMOUNT
28 020013 HEIGHT OF BASE OF CLOUD
29 020012 CLOUD TYPE
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 022042 SEA/WATER TEMPERATURE
33 012005 WET BULB TEMPERATURE AT 2M
34 010197 ANEMOMETER HEIGHT
35 222000 QUALITY INFORMATION FOLLOW
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
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62 031031 DATA PRESENT INDICATOR
63 031031 DATA PRESENT INDICATOR
64 031031 DATA PRESENT INDICATOR
65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
71 001032 GENERATING APPLICATION
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
80 033007 % CONFIDENCE
81 033007 % CONFIDENCE

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82 033007 % CONFIDENCE
83 033007 % CONFIDENCE
84 033007 % CONFIDENCE
85 033007 % CONFIDENCE
86 033007 % CONFIDENCE
87 033007 % CONFIDENCE
88 033007 % CONFIDENCE
89 033007 % CONFIDENCE
90 033007 % CONFIDENCE
91 033007 % CONFIDENCE
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93 033007 % CONFIDENCE
94 033007 % CONFIDENCE
95 033007 % CONFIDENCE
96 033007 % CONFIDENCE
97 033007 % CONFIDENCE
98 033007 % CONFIDENCE
99 033007 % CONFIDENCE
100 033007 % CONFIDENCE
101 033007 % CONFIDENCE
102 033007 % CONFIDENCE
103 033007 % CONFIDENCE
104 033007 % CONFIDENCE
105 033007 % CONFIDENCE

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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

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```

1 SHIP OR MOBILE          0.1009000000E+04 CCITTIA5          VD2235
2 DIRECTION OF MO        MISSING DEGREE TRUE
3 SPEED OF MOTION        MISSING M/S
4 TYPE OF STATION        0.1000000000E+01 CODE TABLE   2001
5 YEAR                   0.2001000000E+04 YEAR
6 MONTH                  0.2000000000E+01 MONTH
7 DAY                    0.1000000000E+01 DAY
8 HOUR                   0.1200000000E+02 HOUR
9 MINUTE                 0.0000000000E+00 MINUTE
10 LATITUDE (COARS       0.4740000000E+02 DEGREE
11 LONGITUDE (COAR      -0.7030000000E+02 DEGREE
12 PRESSURE              MISSING PA
13 PRESSURE REDUCE       0.1015000000E+06 PA
14 3 HOUR PRESSURE      MISSING PA
15 CHARACTERISTIC        MISSING CODE TABLE  10063
16 WIND DIRECTION        0.3000000000E+02 DEGREE TRUE
17 WIND SPEED AT 1      0.2000000000E+01 M/S
18 DRY BULB TEMPER      0.2652000000E+03 K
19 DEW POINT TEMPE      MISSING K
20 RELATIVE HUMIDI      MISSING %
21 HORIZONTAL VISI      0.1000000000E+05 M
22 PRESENT WEATHER      MISSING CODE TABLE  20003
23 PAST WEATHER (1      MISSING CODE TABLE  20004
24 PAST WEATHER (2      MISSING CODE TABLE  20005
25 CLOUD COVER (TO      MISSING %
26 VERTICAL SIGNIF      0.1000000000E+01 CODE TABLE   8002
27 CLOUD AMOUNT         MISSING CODE TABLE  20011
28 HEIGHT OF BASE       MISSING M
29 CLOUD TYPE           0.6200000000E+02 CODE TABLE  20012
30 CLOUD TYPE           0.6100000000E+02 CODE TABLE  20012
31 CLOUD TYPE           0.6000000000E+02 CODE TABLE  20012
32 SEA/WATER TEMPE      MISSING K
33 WET BULB TEMPER      MISSING K
34 ANEMOMETER HEIG      MISSING M
35 QUALITY INFORMA      0.0000000000E+00
36 DATA PRESENT IN     0.0000000000E+00 NUMERIC
37 DATA PRESENT IN     0.0000000000E+00 NUMERIC
38 DATA PRESENT IN     0.0000000000E+00 NUMERIC
39 DATA PRESENT IN     0.0000000000E+00 NUMERIC
40 DATA PRESENT IN     0.0000000000E+00 NUMERIC
41 DATA PRESENT IN     0.0000000000E+00 NUMERIC
42 DATA PRESENT IN     0.0000000000E+00 NUMERIC
43 DATA PRESENT IN     0.0000000000E+00 NUMERIC
44 DATA PRESENT IN     0.0000000000E+00 NUMERIC
45 DATA PRESENT IN     0.0000000000E+00 NUMERIC
46 DATA PRESENT IN     0.0000000000E+00 NUMERIC
47 DATA PRESENT IN     0.0000000000E+00 NUMERIC
48 DATA PRESENT IN     0.0000000000E+00 NUMERIC
49 DATA PRESENT IN     0.0000000000E+00 NUMERIC
50 DATA PRESENT IN     0.0000000000E+00 NUMERIC
51 DATA PRESENT IN     0.0000000000E+00 NUMERIC
52 DATA PRESENT IN     0.0000000000E+00 NUMERIC
53 DATA PRESENT IN     0.0000000000E+00 NUMERIC
54 DATA PRESENT IN     0.0000000000E+00 NUMERIC
55 DATA PRESENT IN     0.0000000000E+00 NUMERIC
56 DATA PRESENT IN     0.0000000000E+00 NUMERIC
57 DATA PRESENT IN     0.0000000000E+00 NUMERIC
58 DATA PRESENT IN     0.0000000000E+00 NUMERIC
59 DATA PRESENT IN     0.0000000000E+00 NUMERIC
60 DATA PRESENT IN     0.0000000000E+00 NUMERIC
61 DATA PRESENT IN     0.0000000000E+00 NUMERIC
62 DATA PRESENT IN     0.0000000000E+00 NUMERIC
63 DATA PRESENT IN     0.0000000000E+00 NUMERIC
64 DATA PRESENT IN     0.0000000000E+00 NUMERIC
65 DATA PRESENT IN     0.0000000000E+00 NUMERIC

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66 DATA PRESENT IN 0.000000000E+00 NUMERIC
67 DATA PRESENT IN 0.000000000E+00 NUMERIC
68 DATA PRESENT IN 0.000000000E+00 NUMERIC
69 DATA PRESENT IN 0.000000000E+00 NUMERIC
70 IDENTIFICATION 0.980000000E+02 CODE TABLE 1031
71 GENERATING APPL 0.100000000E+01 CODE TABLE 1032
72 % CONFIDENCE 0.700000000E+02 NUMERIC
73 % CONFIDENCE 0.700000000E+02 NUMERIC
74 % CONFIDENCE 0.700000000E+02 NUMERIC
75 % CONFIDENCE 0.700000000E+02 NUMERIC
76 % CONFIDENCE 0.700000000E+02 NUMERIC
77 % CONFIDENCE 0.700000000E+02 NUMERIC
78 % CONFIDENCE 0.700000000E+02 NUMERIC
79 % CONFIDENCE 0.700000000E+02 NUMERIC
80 % CONFIDENCE 0.700000000E+02 NUMERIC
81 % CONFIDENCE 0.700000000E+02 NUMERIC
82 % CONFIDENCE 0.700000000E+02 NUMERIC
83 % CONFIDENCE 0.700000000E+02 NUMERIC
84 % CONFIDENCE 0.700000000E+02 NUMERIC
85 % CONFIDENCE 0.700000000E+02 NUMERIC
86 % CONFIDENCE 0.700000000E+02 NUMERIC
87 % CONFIDENCE 0.700000000E+02 NUMERIC
88 % CONFIDENCE 0.700000000E+02 NUMERIC
89 % CONFIDENCE 0.700000000E+02 NUMERIC
90 % CONFIDENCE 0.700000000E+02 NUMERIC
91 % CONFIDENCE 0.700000000E+02 NUMERIC
92 % CONFIDENCE 0.700000000E+02 NUMERIC
93 % CONFIDENCE 0.700000000E+02 NUMERIC
94 % CONFIDENCE 0.700000000E+02 NUMERIC
95 % CONFIDENCE 0.700000000E+02 NUMERIC
96 % CONFIDENCE 0.700000000E+02 NUMERIC
97 % CONFIDENCE 0.700000000E+02 NUMERIC
98 % CONFIDENCE 0.700000000E+02 NUMERIC
99 % CONFIDENCE 0.700000000E+02 NUMERIC
100 % CONFIDENCE 0.750000000E+02 NUMERIC
101 % CONFIDENCE 0.790000000E+02 NUMERIC
102 % CONFIDENCE 0.790000000E+02 NUMERIC
103 % CONFIDENCE 0.700000000E+02 NUMERIC
104 % CONFIDENCE 0.700000000E+02 NUMERIC
105 % CONFIDENCE 0.700000000E+02 NUMERIC
```



3.13 Drifter

RDB type 1, subtype 21

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          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 182
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE          0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER          1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE               1
BUFR MESSAGE SUBTYPE            21
VERSION NUMBER OF LOCAL TABLE  1
YEAR                             1
MONTH                             2
DAY                               1
HOUR                             9
MINUTE                           11
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   1
RDB DATA SUBTYPE                21
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             9
MINUTE                           11
SECOND                            0
LATITUDE 1                       59.03
LONGITUDE 1                      -29.99
IDENTIFIER                       65602
TOTAL BUFR MESSAGE LENGTH        182
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             9
MINUTE (RDB INSERTION)          32
SECOND (RDB INSERTION)          50
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)              9
MINUTE (MDB ARRIVAL)            31
SECOND (MDB ARRIVAL)            32
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF          70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      24
RESERVED                          0
NUMBER OF DATA SUBSETS          1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

1 308003
2 222000

```

3 101032
4 031031
5 001031
6 001201
7 101032
8 033007

DATA DESCRIPTORS (EXPANDED)

1 001005 BUOY/PLATFORM IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 010004 PRESSURE
13 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
14 010061 3 HOUR PRESSURE CHANGE
15 010063 CHARACTERISTIC OF PRESSURE TENDENCY
16 011011 WIND DIRECTION AT 10 M
17 011012 WIND SPEED AT 10 M
18 012004 DRY BULB TEMPERATURE AT 2M
19 012006 DEW POINT TEMPERATURE AT 2M
20 013003 RELATIVE HUMIDITY
21 020001 HORIZONTAL VISIBILITY
22 020003 PRESENT WEATHER
23 020004 PAST WEATHER (1)
24 020005 PAST WEATHER (2)
25 020010 CLOUD COVER (TOTAL)
26 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
27 020011 CLOUD AMOUNT
28 020013 HEIGHT OF BASE OF CLOUD
29 020012 CLOUD TYPE
30 020012 CLOUD TYPE
31 020012 CLOUD TYPE
32 022042 SEA/WATER TEMPERATURE
33 222000 QUALITY INFORMATION FOLLOW
34 031031 DATA PRESENT INDICATOR
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
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61 031031 DATA PRESENT INDICATOR
62 031031 DATA PRESENT INDICATOR
63 031031 DATA PRESENT INDICATOR
64 031031 DATA PRESENT INDICATOR
65 031031 DATA PRESENT INDICATOR
66 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
67 001201 GENERATING APPLICATION
68 033007 % CONFIDENCE
69 033007 % CONFIDENCE
70 033007 % CONFIDENCE
71 033007 % CONFIDENCE
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
80 033007 % CONFIDENCE
81 033007 % CONFIDENCE
82 033007 % CONFIDENCE
83 033007 % CONFIDENCE

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84 033007 % CONFIDENCE
85 033007 % CONFIDENCE
86 033007 % CONFIDENCE
87 033007 % CONFIDENCE
88 033007 % CONFIDENCE
89 033007 % CONFIDENCE
90 033007 % CONFIDENCE
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94 033007 % CONFIDENCE
95 033007 % CONFIDENCE
96 033007 % CONFIDENCE
97 033007 % CONFIDENCE
98 033007 % CONFIDENCE
99 033007 % CONFIDENCE
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

1 BUOY/PLATFORM I      0.6560200000E+05 NUMERIC
2 DIRECTION OF MO      MISSING DEGREE TRUE
3 SPEED OF MOTION      MISSING M/S
4 TYPE OF STATION      0.0000000000E+00 CODE TABLE 2001
5 YEAR                 0.2001000000E+04 YEAR
6 MONTH                0.2000000000E+01 MONTH
7 DAY                  0.1000000000E+01 DAY
8 HOUR                 0.9000000000E+01 HOUR
9 MINUTE               0.1100000000E+02 MINUTE
10 LATITUDE (COARS     0.5903000000E+02 DEGREE
11 LONGITUDE (COAR     -0.2999000000E+02 DEGREE
12 PRESSURE             0.9952000000E+05 PA
13 PRESSURE REDUCE      0.9952000000E+05 PA
14 3 HOUR PRESSURE     0.3100000000E+03 PA
15 CHARACTERISTIC      0.7000000000E+01 CODE TABLE 10063
16 WIND DIRECTION      MISSING DEGREE TRUE
17 WIND SPEED AT 1     MISSING M/S
18 DRY BULB TEMPER     0.2785000000E+03 K
19 DEW POINT TEMPE     MISSING K
20 RELATIVE HUMIDI     MISSING %
21 HORIZONTAL VISI     MISSING M
22 PRESENT WEATHER     MISSING CODE TABLE 20003
23 PAST WEATHER (1     MISSING CODE TABLE 20004
24 PAST WEATHER (2     MISSING CODE TABLE 20005
25 CLOUD COVER (TO     MISSING %
26 VERTICAL SIGNIF     MISSING CODE TABLE 8002
27 CLOUD AMOUNT        MISSING CODE TABLE 20011
28 HEIGHT OF BASE      MISSING M
29 CLOUD TYPE           MISSING CODE TABLE 20012
30 CLOUD TYPE           MISSING CODE TABLE 20012
31 CLOUD TYPE           MISSING CODE TABLE 20012
32 SEA/WATER TEMPE     0.2808000000E+03 K
33 QUALITY INFORMA     0.0000000000E+00
34 DATA PRESENT IN    0.0000000000E+00 NUMERIC
35 DATA PRESENT IN    0.0000000000E+00 NUMERIC
36 DATA PRESENT IN    0.0000000000E+00 NUMERIC
37 DATA PRESENT IN    0.0000000000E+00 NUMERIC
38 DATA PRESENT IN    0.0000000000E+00 NUMERIC
39 DATA PRESENT IN    0.0000000000E+00 NUMERIC
40 DATA PRESENT IN    0.0000000000E+00 NUMERIC
41 DATA PRESENT IN    0.0000000000E+00 NUMERIC
42 DATA PRESENT IN    0.0000000000E+00 NUMERIC
43 DATA PRESENT IN    0.0000000000E+00 NUMERIC
44 DATA PRESENT IN    0.0000000000E+00 NUMERIC
45 DATA PRESENT IN    0.0000000000E+00 NUMERIC
46 DATA PRESENT IN    0.0000000000E+00 NUMERIC
47 DATA PRESENT IN    0.0000000000E+00 NUMERIC
48 DATA PRESENT IN    0.0000000000E+00 NUMERIC
49 DATA PRESENT IN    0.0000000000E+00 NUMERIC
50 DATA PRESENT IN    0.0000000000E+00 NUMERIC
51 DATA PRESENT IN    0.0000000000E+00 NUMERIC
52 DATA PRESENT IN    0.0000000000E+00 NUMERIC
53 DATA PRESENT IN    0.0000000000E+00 NUMERIC
54 DATA PRESENT IN    0.0000000000E+00 NUMERIC
55 DATA PRESENT IN    0.0000000000E+00 NUMERIC
56 DATA PRESENT IN    0.0000000000E+00 NUMERIC
57 DATA PRESENT IN    0.0000000000E+00 NUMERIC
58 DATA PRESENT IN    0.0000000000E+00 NUMERIC
59 DATA PRESENT IN    0.0000000000E+00 NUMERIC
60 DATA PRESENT IN    0.0000000000E+00 NUMERIC
61 DATA PRESENT IN    0.0000000000E+00 NUMERIC
62 DATA PRESENT IN    0.0000000000E+00 NUMERIC
63 DATA PRESENT IN    0.0000000000E+00 NUMERIC
64 DATA PRESENT IN    0.0000000000E+00 NUMERIC
65 DATA PRESENT IN    0.0000000000E+00 NUMERIC
66 IDENTIFICATION      0.9800000000E+02 CODE TABLE 1031
67 GENERATING APPL     0.1000000000E+01 CODE TABLE 1201
68 % CONFIDENCE        0.7000000000E+02 NUMERIC
69 % CONFIDENCE        0.7000000000E+02 NUMERIC
70 % CONFIDENCE        0.7000000000E+02 NUMERIC
71 % CONFIDENCE        0.7000000000E+02 NUMERIC
72 % CONFIDENCE        0.7000000000E+02 NUMERIC
73 % CONFIDENCE        0.7000000000E+02 NUMERIC
74 % CONFIDENCE        0.7000000000E+02 NUMERIC

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75 % CONFIDENCE      0.7000000000E+02 NUMERIC
76 % CONFIDENCE      0.7000000000E+02 NUMERIC
77 % CONFIDENCE      0.7000000000E+02 NUMERIC
78 % CONFIDENCE      0.7000000000E+02 NUMERIC
79 % CONFIDENCE      0.7000000000E+02 NUMERIC
80 % CONFIDENCE      0.7000000000E+02 NUMERIC
81 % CONFIDENCE      0.7700000000E+02 NUMERIC
82 % CONFIDENCE      0.7900000000E+02 NUMERIC
83 % CONFIDENCE      0.7000000000E+02 NUMERIC
84 % CONFIDENCE      0.7000000000E+02 NUMERIC
85 % CONFIDENCE      0.7000000000E+02 NUMERIC
86 % CONFIDENCE      0.7000000000E+02 NUMERIC
87 % CONFIDENCE      0.7000000000E+02 NUMERIC
88 % CONFIDENCE      0.7000000000E+02 NUMERIC
89 % CONFIDENCE      0.7000000000E+02 NUMERIC
90 % CONFIDENCE      0.7000000000E+02 NUMERIC
91 % CONFIDENCE      0.7000000000E+02 NUMERIC
92 % CONFIDENCE      0.7000000000E+02 NUMERIC
93 % CONFIDENCE      0.7000000000E+02 NUMERIC
94 % CONFIDENCE      0.7000000000E+02 NUMERIC
95 % CONFIDENCE      0.7000000000E+02 NUMERIC
96 % CONFIDENCE      0.7000000000E+02 NUMERIC
97 % CONFIDENCE      0.7000000000E+02 NUMERIC
98 % CONFIDENCE      0.7000000000E+02 NUMERIC
99 % CONFIDENCE      0.7000000000E+02 NUMERIC
```




3.14 Satem 500 km low level

RDB type 2, subtype 61

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 260
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE               0
    ORIGINATING CENTRE                  98
    UPDATE SEQUENCE NUMBER               1
    FLAG (PRESENCE OF SECTION 2)        128
    BUFR MESSAGE TYPE                    3
    BUFR MESSAGE SUBTYPE                 61
    VERSION NUMBER OF LOCAL TABLE      1
    YEAR                                  1
    MONTH                                 2
    DAY                                   1
    HOUR                                  11
    MINUTE                                0
    VERSION NUMBER OF MASTER TABLE      6
    BUFR MASTER TABLE                  0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                  52
    REPORT DATA BASE KEY
    RDB DATA TYPE                       2
    RDB DATA SUBTYPE                    61
    YEAR                                  2001
    MONTH                                 2
    DAY                                   1
    HOUR                                  11
    MINUTE                                0
    SECOND                                0
    LATITUDE 1                           0.00
    LONGITUDE 1                           74.00
    LATITUDE 2                           0.00
    LONGITUDE 2                           74.00
    NUMBER OF OBSERVATIONS                1
    IDENTIFIER                            239
    TOTAL BUFR MESSAGE LENGTH            260
    DAY (RDB INSERTION)                   1
    HOUR (RDB INSERTION)                  14
    MINUTE (RDB INSERTION)                25
    SECOND (RDB INSERTION)                52
    DAY (MDB ARRIVAL)                     1
    HOUR (MDB ARRIVAL)                    14
    MINUTE (MDB ARRIVAL)                  23
    SECOND (MDB ARRIVAL)                   56
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        1
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    QUALITY CONTROL % CONF                70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)          24
    RESERVED                              0
    NUMBER OF DATA SUBSETS               1
    FLAG (DATA TYPE/DATA COMPRESSION)    128

DATA DESCRIPTORS (UNEXPANDED)

```

1 310002
2 222000
3 101063
4 031031
5 001031
6 001032
7 101063
8 033007

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 002021 SATELLITE INSTRUMENT DATA USED IN PROCESSING
3 002022 SATELLITE DATA PROCESSING TECHNIQUE USED
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007004 PRESSURE
12 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
13 007021 ELEVATION
14 007022 SOLAR ELEVATION
15 008012 LAND/SEA QUALIFIER
16 012061 SKIN TEMPERATURE
17 020011 CLOUD AMOUNT
18 020016 PRESSURE AT TOP OF CLOUD
19 007004 PRESSURE
20 007004 PRESSURE
21 031021 ASSOCIATED FIELD SIGNIFICANCE
22 999999 ASSOCIATED FIELD
23 012001 TEMPERATURE/DRY BULB TEMPERATURE
24 007004 PRESSURE
25 007004 PRESSURE
26 031021 ASSOCIATED FIELD SIGNIFICANCE
27 999999 ASSOCIATED FIELD
28 012001 TEMPERATURE/DRY BULB TEMPERATURE
29 007004 PRESSURE
30 007004 PRESSURE
31 031021 ASSOCIATED FIELD SIGNIFICANCE
32 999999 ASSOCIATED FIELD
33 012001 TEMPERATURE/DRY BULB TEMPERATURE
34 007004 PRESSURE
35 007004 PRESSURE
36 031021 ASSOCIATED FIELD SIGNIFICANCE
37 999999 ASSOCIATED FIELD
38 012001 TEMPERATURE/DRY BULB TEMPERATURE
39 007004 PRESSURE
40 007004 PRESSURE
41 031021 ASSOCIATED FIELD SIGNIFICANCE
42 999999 ASSOCIATED FIELD
43 012001 TEMPERATURE/DRY BULB TEMPERATURE
44 007004 PRESSURE
45 007004 PRESSURE
46 031021 ASSOCIATED FIELD SIGNIFICANCE
47 999999 ASSOCIATED FIELD
48 012001 TEMPERATURE/DRY BULB TEMPERATURE
49 007004 PRESSURE
50 007004 PRESSURE
51 031021 ASSOCIATED FIELD SIGNIFICANCE
52 999999 ASSOCIATED FIELD
53 012001 TEMPERATURE/DRY BULB TEMPERATURE
54 007004 PRESSURE
55 007004 PRESSURE
56 031021 ASSOCIATED FIELD SIGNIFICANCE
57 999999 ASSOCIATED FIELD
58 012001 TEMPERATURE/DRY BULB TEMPERATURE
59 007004 PRESSURE
60 007004 PRESSURE
61 031021 ASSOCIATED FIELD SIGNIFICANCE
62 999999 ASSOCIATED FIELD
63 012001 TEMPERATURE/DRY BULB TEMPERATURE
64 222000 QUALITY INFORMATION FOLLOW
65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 031031 DATA PRESENT INDICATOR
71 031031 DATA PRESENT INDICATOR
72 031031 DATA PRESENT INDICATOR
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82 031031 DATA PRESENT INDICATOR
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123 031031 DATA PRESENT INDICATOR
124 031031 DATA PRESENT INDICATOR
125 031031 DATA PRESENT INDICATOR
126 031031 DATA PRESENT INDICATOR
127 031031 DATA PRESENT INDICATOR
128 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
129 001032 GENERATING APPLICATION
130 033007 % CONFIDENCE
131 033007 % CONFIDENCE
132 033007 % CONFIDENCE
133 033007 % CONFIDENCE
134 033007 % CONFIDENCE
135 033007 % CONFIDENCE
136 033007 % CONFIDENCE
137 033007 % CONFIDENCE
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189 033007 % CONFIDENCE
190 033007 % CONFIDENCE
191 033007 % CONFIDENCE
192 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|------------------|------------------|--------------------|-------|
| 1 | SATELLITE IDENT | 0.2390000000E+03 | CODE TABLE | 1007 |
| 2 | SATELLITE INSTR | 0.4480000000E+03 | FLAG TABLE | 2021 |
| 3 | SATELLITE DATA | 0.8000000000E+01 | FLAG TABLE | 2022 |
| 4 | YEAR | 0.2001000000E+04 | YEAR | |
| 5 | MONTH | 0.2000000000E+01 | MONTH | |
| 6 | DAY | 0.1000000000E+01 | DAY | |
| 7 | HOUR | 0.1100000000E+02 | HOUR | |
| 8 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 9 | LATITUDE (HIGH) | 0.0000000000E+00 | DEGREE | |
| 10 | LONGITUDE (HIGH) | 0.7400000000E+02 | DEGREE | |
| 11 | PRESSURE | 0.1000000000E+06 | PA | |
| 12 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8003 |
| 13 | ELEVATION | | MISSING DEGREE | |
| 14 | SOLAR ELEVATION | | MISSING DEGREE | |
| 15 | LAND/SEA QUALIF | | MISSING CODE TABLE | 8012 |
| 16 | SKIN TEMPERATUR | 0.2760000000E+03 | K | |
| 17 | CLOUD AMOUNT | 0.0000000000E+00 | CODE TABLE | 20011 |
| 18 | PRESSURE AT TOP | 0.2500000000E+05 | PA | |
| 19 | PRESSURE | 0.1000000000E+06 | PA | |
| 20 | PRESSURE | 0.8500000000E+05 | PA | |
| 21 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 22 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 23 | TEMPERATURE/DRY | 0.2964000000E+03 | K | |
| 24 | PRESSURE | 0.8500000000E+05 | PA | |
| 25 | PRESSURE | 0.7000000000E+05 | PA | |
| 26 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 27 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 28 | TEMPERATURE/DRY | 0.2886000000E+03 | K | |
| 29 | PRESSURE | 0.7000000000E+05 | PA | |
| 30 | PRESSURE | 0.5000000000E+05 | PA | |
| 31 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 32 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 33 | TEMPERATURE/DRY | 0.2752000000E+03 | K | |
| 34 | PRESSURE | 0.5000000000E+05 | PA | |
| 35 | PRESSURE | 0.4000000000E+05 | PA | |
| 36 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 37 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 38 | TEMPERATURE/DRY | 0.2618000000E+03 | K | |
| 39 | PRESSURE | 0.4000000000E+05 | PA | |
| 40 | PRESSURE | 0.3000000000E+05 | PA | |
| 41 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 42 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 43 | TEMPERATURE/DRY | 0.2494000000E+03 | K | |
| 44 | PRESSURE | 0.3000000000E+05 | PA | |
| 45 | PRESSURE | 0.2000000000E+05 | PA | |
| 46 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 47 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 48 | TEMPERATURE/DRY | 0.2309000000E+03 | K | |
| 49 | PRESSURE | 0.2000000000E+05 | PA | |
| 50 | PRESSURE | 0.1000000000E+05 | PA | |
| 51 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 52 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 53 | TEMPERATURE/DRY | 0.2036000000E+03 | K | |
| 54 | PRESSURE | 0.1000000000E+05 | PA | |
| 55 | PRESSURE | 0.7000000000E+04 | PA | |
| 56 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 57 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 58 | TEMPERATURE/DRY | 0.1916000000E+03 | K | |
| 59 | PRESSURE | 0.7000000000E+04 | PA | |
| 60 | PRESSURE | 0.5000000000E+04 | PA | |
| 61 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 62 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 63 | TEMPERATURE/DRY | 0.2000000000E+03 | K | |
| 64 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 65 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 66 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 67 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 68 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 69 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 70 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 71 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 72 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |



```
166 % CONFIDENCE      0.7000000000E+02 NUMERIC
167 % CONFIDENCE      0.7000000000E+02 NUMERIC
168 % CONFIDENCE      0.7500000000E+02 NUMERIC
169 % CONFIDENCE      0.7500000000E+02 NUMERIC
170 % CONFIDENCE      0.7000000000E+02 NUMERIC
171 % CONFIDENCE      0.7000000000E+02 NUMERIC
172 % CONFIDENCE      0.7000000000E+02 NUMERIC
173 % CONFIDENCE      0.7500000000E+02 NUMERIC
174 % CONFIDENCE      0.7500000000E+02 NUMERIC
175 % CONFIDENCE      0.7000000000E+02 NUMERIC
176 % CONFIDENCE      0.7000000000E+02 NUMERIC
177 % CONFIDENCE      0.7000000000E+02 NUMERIC
178 % CONFIDENCE      0.7500000000E+02 NUMERIC
179 % CONFIDENCE      0.7500000000E+02 NUMERIC
180 % CONFIDENCE      0.7000000000E+02 NUMERIC
181 % CONFIDENCE      0.7000000000E+02 NUMERIC
182 % CONFIDENCE      0.7000000000E+02 NUMERIC
183 % CONFIDENCE      0.7500000000E+02 NUMERIC
184 % CONFIDENCE      0.7500000000E+02 NUMERIC
185 % CONFIDENCE      0.7000000000E+02 NUMERIC
186 % CONFIDENCE      0.7000000000E+02 NUMERIC
187 % CONFIDENCE      0.7000000000E+02 NUMERIC
188 % CONFIDENCE      0.7500000000E+02 NUMERIC
189 % CONFIDENCE      0.7500000000E+02 NUMERIC
190 % CONFIDENCE      0.7000000000E+02 NUMERIC
191 % CONFIDENCE      0.7000000000E+02 NUMERIC
192 % CONFIDENCE      0.7000000000E+02 NUMERIC
```



3.15 Satem 500 km precipitable water

RDB type 2, subtype 62

```

          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 190
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                3
BUFR MESSAGE SUBTYPE            62
VERSION NUMBER OF LOCAL TABLE   1
YEAR                             1
MONTH                            2
DAY                              1
HOUR                             11
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   2
RDB DATA SUBTYPE                62
YEAR                             2001
MONTH                            2
DAY                              1
HOUR                             11
MINUTE                           0
SECOND                           0
LATITUDE 1                       0.00
LONGITUDE 1                      74.00
LATITUDE 2                       0.00
LONGITUDE 2                      74.00
NUMBER OF OBSERVATIONS            1
IDENTIFIER                       239
TOTAL BUFR MESSAGE LENGTH        190
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             14
MINUTE (RDB INSERTION)           25
SECOND (RDB INSERTION)           53
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)              14
MINUTE (MDB ARRIVAL)            23
SECOND (MDB ARRIVAL)            56
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      24
RESERVED                         0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

```

1 310004
2 222000
3 101033
4 031031
5 001031
6 001032
7 101033
8 033007

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 002021 SATELLITE INSTRUMENT DATA USED IN PROCESSING
3 002022 SATELLITE DATA PROCESSING TECHNIQUE USED
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007004 PRESSURE
12 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
13 007021 ELEVATION
14 007022 SOLAR ELEVATION
15 008012 LAND/SEA QUALIFIER
16 012061 SKIN TEMPERATURE
17 020011 CLOUD AMOUNT
18 020016 PRESSURE AT TOP OF CLOUD
19 007004 PRESSURE
20 007004 PRESSURE
21 031021 ASSOCIATED FIELD SIGNIFICANCE
22 999999 ASSOCIATED FIELD
23 013016 PRECIPITABLE WATER
24 007004 PRESSURE
25 007004 PRESSURE
26 031021 ASSOCIATED FIELD SIGNIFICANCE
27 999999 ASSOCIATED FIELD
28 013016 PRECIPITABLE WATER
29 007004 PRESSURE
30 007004 PRESSURE
31 031021 ASSOCIATED FIELD SIGNIFICANCE
32 999999 ASSOCIATED FIELD
33 013016 PRECIPITABLE WATER
34 222000 QUALITY INFORMATION FOLLOW
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
49 031031 DATA PRESENT INDICATOR
50 031031 DATA PRESENT INDICATOR
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
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56 031031 DATA PRESENT INDICATOR
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62 031031 DATA PRESENT INDICATOR
63 031031 DATA PRESENT INDICATOR
64 031031 DATA PRESENT INDICATOR
65 031031 DATA PRESENT INDICATOR
66 031031 DATA PRESENT INDICATOR
67 031031 DATA PRESENT INDICATOR
68 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
69 001032 GENERATING APPLICATION
70 033007 % CONFIDENCE
71 033007 % CONFIDENCE
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
80 033007 % CONFIDENCE



81 033007 % CONFIDENCE
 82 033007 % CONFIDENCE
 83 033007 % CONFIDENCE
 84 033007 % CONFIDENCE
 85 033007 % CONFIDENCE
 86 033007 % CONFIDENCE
 87 033007 % CONFIDENCE
 88 033007 % CONFIDENCE
 89 033007 % CONFIDENCE
 90 033007 % CONFIDENCE
 91 033007 % CONFIDENCE
 92 033007 % CONFIDENCE
 93 033007 % CONFIDENCE
 94 033007 % CONFIDENCE
 95 033007 % CONFIDENCE
 96 033007 % CONFIDENCE
 97 033007 % CONFIDENCE
 98 033007 % CONFIDENCE
 99 033007 % CONFIDENCE
 100 033007 % CONFIDENCE
 101 033007 % CONFIDENCE
 102 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|-----------------|------------------|------------|-------|
| 1 | SATELLITE IDENT | 0.2390000000E+03 | CODE TABLE | 1007 |
| 2 | SATELLITE INSTR | 0.4480000000E+03 | FLAG TABLE | 2021 |
| 3 | SATELLITE DATA | 0.8000000000E+01 | FLAG TABLE | 2022 |
| 4 | YEAR | 0.2001000000E+04 | YEAR | |
| 5 | MONTH | 0.2000000000E+01 | MONTH | |
| 6 | DAY | 0.1000000000E+01 | DAY | |
| 7 | HOUR | 0.1100000000E+02 | HOUR | |
| 8 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 9 | LATITUDE (HIGH | 0.0000000000E+00 | DEGREE | |
| 10 | LONGITUDE (HIGH | 0.7400000000E+02 | DEGREE | |
| 11 | PRESSURE | 0.1000000000E+06 | PA | |
| 12 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8003 |
| 13 | ELEVATION | MISSING | DEGREE | |
| 14 | SOLAR ELEVATION | MISSING | DEGREE | |
| 15 | LAND/SEA QUALIF | MISSING | CODE TABLE | 8012 |
| 16 | SKIN TEMPERATUR | 0.2760000000E+03 | K | |
| 17 | CLOUD AMOUNT | 0.0000000000E+00 | CODE TABLE | 20011 |
| 18 | PRESSURE AT TOP | 0.2500000000E+05 | PA | |
| 19 | PRESSURE | 0.1000000000E+06 | PA | |
| 20 | PRESSURE | 0.7000000000E+05 | PA | |
| 21 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 22 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 23 | PRECIPITABLE WA | 0.3400000000E+02 | KG/M**2 | |
| 24 | PRESSURE | 0.7000000000E+05 | PA | |
| 25 | PRESSURE | 0.5000000000E+05 | PA | |
| 26 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 27 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 28 | PRECIPITABLE WA | 0.1000000000E+02 | KG/M**2 | |
| 29 | PRESSURE | 0.5000000000E+05 | PA | |
| 30 | PRESSURE | 0.3000000000E+05 | PA | |
| 31 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 32 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 33 | PRECIPITABLE WA | 0.2000000000E+01 | KG/M**2 | |
| 34 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 35 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 36 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 37 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 38 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 39 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 40 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 41 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 42 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 43 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 44 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 45 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 46 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 47 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 48 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 49 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 50 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 51 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 52 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 53 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 54 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 55 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 56 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 57 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 58 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 59 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 60 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 61 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 62 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 63 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 64 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 65 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 66 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 67 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |

```
68 IDENTIFICATION      0.9800000000E+02 CODE TABLE 1031
69 GENERATING APPL    0.1000000000E+01 CODE TABLE 1032
70 % CONFIDENCE        0.7000000000E+02 NUMERIC
71 % CONFIDENCE        0.7000000000E+02 NUMERIC
72 % CONFIDENCE        0.7000000000E+02 NUMERIC
73 % CONFIDENCE        0.7000000000E+02 NUMERIC
74 % CONFIDENCE        0.7000000000E+02 NUMERIC
75 % CONFIDENCE        0.7000000000E+02 NUMERIC
76 % CONFIDENCE        0.7000000000E+02 NUMERIC
77 % CONFIDENCE        0.7000000000E+02 NUMERIC
78 % CONFIDENCE        0.7000000000E+02 NUMERIC
79 % CONFIDENCE        0.7000000000E+02 NUMERIC
80 % CONFIDENCE        0.7000000000E+02 NUMERIC
81 % CONFIDENCE        0.7000000000E+02 NUMERIC
82 % CONFIDENCE        0.7000000000E+02 NUMERIC
83 % CONFIDENCE        0.7000000000E+02 NUMERIC
84 % CONFIDENCE        0.7000000000E+02 NUMERIC
85 % CONFIDENCE        0.7000000000E+02 NUMERIC
86 % CONFIDENCE        0.7000000000E+02 NUMERIC
87 % CONFIDENCE        0.7000000000E+02 NUMERIC
88 % CONFIDENCE        0.7500000000E+02 NUMERIC
89 % CONFIDENCE        0.7500000000E+02 NUMERIC
90 % CONFIDENCE        0.7000000000E+02 NUMERIC
91 % CONFIDENCE        0.7000000000E+02 NUMERIC
92 % CONFIDENCE        0.7000000000E+02 NUMERIC
93 % CONFIDENCE        0.7500000000E+02 NUMERIC
94 % CONFIDENCE        0.7500000000E+02 NUMERIC
95 % CONFIDENCE        0.7000000000E+02 NUMERIC
96 % CONFIDENCE        0.7000000000E+02 NUMERIC
97 % CONFIDENCE        0.7000000000E+02 NUMERIC
98 % CONFIDENCE        0.7500000000E+02 NUMERIC
99 % CONFIDENCE        0.7500000000E+02 NUMERIC
100 % CONFIDENCE       0.7000000000E+02 NUMERIC
101 % CONFIDENCE       0.7000000000E+02 NUMERIC
102 % CONFIDENCE       0.7000000000E+02 NUMERIC
```



3.16 Satem 500 km low level

RDB type 2, subtype 63

```

          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601

          BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)           8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 226
BUFR EDITION NUMBER                   3

          BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)           18
BUFR EDITION NUMBER                   3
ORIGINATING SUB-CENTRE                0
ORIGINATING CENTRE                   98
UPDATE SEQUENCE NUMBER                 1
FLAG (PRESENCE OF SECTION 2)         128
BUFR MESSAGE TYPE                     3
BUFR MESSAGE SUBTYPE                  63
VERSION NUMBER OF LOCAL TABLE        1
YEAR                                  1
MONTH                                 2
DAY                                  1
HOUR                                  11
MINUTE                                0
VERSION NUMBER OF MASTER TABLE        6
BUFR MASTER TABLE                   0

          BUFR SECTION 2

LENGTH OF SECTION 2                   52

          REPORT DATA BASE KEY

RDB DATA TYPE                        2
RDB DATA SUBTYPE                     63
YEAR                                  2001
MONTH                                  2
DAY                                    1
HOUR                                  11
MINUTE                                0
SECOND                                0
LATITUDE 1                            0.00
LONGITUDE 1                           74.00
LATITUDE 2                            0.00
LONGITUDE 2                           74.00
NUMBER OF OBSERVATIONS                 1
IDENTIFIER                             239
TOTAL BUFR MESSAGE LENGTH             226
DAY (RDB INSERTION)                   1
HOUR (RDB INSERTION)                  14
MINUTE (RDB INSERTION)                 25
SECOND (RDB INSERTION)                 53
DAY (MDB ARRIVAL)                     1
HOUR (MDB ARRIVAL)                    14
MINUTE (MDB ARRIVAL)                  23
SECOND (MDB ARRIVAL)                   56
CORRECTION NUMBER                     0
PART OF MESSAGE                        1
CORRECTION NUMBER                     0
PART OF MESSAGE                        0
CORRECTION NUMBER                     0
PART OF MESSAGE                        0
CORRECTION NUMBER                     0
PART OF MESSAGE                        0
CORRECTION NUMBER                     0
PART OF MESSAGE                        0
CORRECTION NUMBER                     0
PART OF MESSAGE                        0
QUALITY CONTROL % CONF                 70

          BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)           24
RESERVED                              0
NUMBER OF DATA SUBSETS                1
FLAG (DATA TYPE/DATA COMPRESSION)     128

          DATA DESCRIPTORS (UNEXPANDED)

```

1 310003
2 222000
3 101048
4 031031
5 001031
6 001032
7 101048
8 033007

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 002021 SATELLITE INSTRUMENT DATA USED IN PROCESSING
3 002022 SATELLITE DATA PROCESSING TECHNIQUE USED
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007004 PRESSURE
12 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
13 007021 ELEVATION
14 007022 SOLAR ELEVATION
15 008012 LAND/SEA QUALIFIER
16 012061 SKIN TEMPERATURE
17 020011 CLOUD AMOUNT
18 020016 PRESSURE AT TOP OF CLOUD
19 007004 PRESSURE
20 007004 PRESSURE
21 031021 ASSOCIATED FIELD SIGNIFICANCE
22 999999 ASSOCIATED FIELD
23 012001 TEMPERATURE/DRY BULB TEMPERATURE
24 007004 PRESSURE
25 007004 PRESSURE
26 031021 ASSOCIATED FIELD SIGNIFICANCE
27 999999 ASSOCIATED FIELD
28 012001 TEMPERATURE/DRY BULB TEMPERATURE
29 007004 PRESSURE
30 007004 PRESSURE
31 031021 ASSOCIATED FIELD SIGNIFICANCE
32 999999 ASSOCIATED FIELD
33 012001 TEMPERATURE/DRY BULB TEMPERATURE
34 007004 PRESSURE
35 007004 PRESSURE
36 031021 ASSOCIATED FIELD SIGNIFICANCE
37 999999 ASSOCIATED FIELD
38 012001 TEMPERATURE/DRY BULB TEMPERATURE
39 007004 PRESSURE
40 007004 PRESSURE
41 031021 ASSOCIATED FIELD SIGNIFICANCE
42 999999 ASSOCIATED FIELD
43 012001 TEMPERATURE/DRY BULB TEMPERATURE
44 007004 PRESSURE
45 007004 PRESSURE
46 031021 ASSOCIATED FIELD SIGNIFICANCE
47 999999 ASSOCIATED FIELD
48 012001 TEMPERATURE/DRY BULB TEMPERATURE
49 222000 QUALITY INFORMATION FOLLOW
50 031031 DATA PRESENT INDICATOR
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
53 031031 DATA PRESENT INDICATOR
54 031031 DATA PRESENT INDICATOR
55 031031 DATA PRESENT INDICATOR
56 031031 DATA PRESENT INDICATOR
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67 031031 DATA PRESENT INDICATOR
68 031031 DATA PRESENT INDICATOR
69 031031 DATA PRESENT INDICATOR
70 031031 DATA PRESENT INDICATOR
71 031031 DATA PRESENT INDICATOR
72 031031 DATA PRESENT INDICATOR
73 031031 DATA PRESENT INDICATOR
74 031031 DATA PRESENT INDICATOR
75 031031 DATA PRESENT INDICATOR
76 031031 DATA PRESENT INDICATOR
77 031031 DATA PRESENT INDICATOR
78 031031 DATA PRESENT INDICATOR
79 031031 DATA PRESENT INDICATOR
80 031031 DATA PRESENT INDICATOR



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81 031031 DATA PRESENT INDICATOR
82 031031 DATA PRESENT INDICATOR
83 031031 DATA PRESENT INDICATOR
84 031031 DATA PRESENT INDICATOR
85 031031 DATA PRESENT INDICATOR
86 031031 DATA PRESENT INDICATOR
87 031031 DATA PRESENT INDICATOR
88 031031 DATA PRESENT INDICATOR
89 031031 DATA PRESENT INDICATOR
90 031031 DATA PRESENT INDICATOR
91 031031 DATA PRESENT INDICATOR
92 031031 DATA PRESENT INDICATOR
93 031031 DATA PRESENT INDICATOR
94 031031 DATA PRESENT INDICATOR
95 031031 DATA PRESENT INDICATOR
96 031031 DATA PRESENT INDICATOR
97 031031 DATA PRESENT INDICATOR
98 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
99 001032 GENERATING APPLICATION
100 033007 % CONFIDENCE
101 033007 % CONFIDENCE
102 033007 % CONFIDENCE
103 033007 % CONFIDENCE
104 033007 % CONFIDENCE
105 033007 % CONFIDENCE
106 033007 % CONFIDENCE
107 033007 % CONFIDENCE
108 033007 % CONFIDENCE
109 033007 % CONFIDENCE
110 033007 % CONFIDENCE
111 033007 % CONFIDENCE
112 033007 % CONFIDENCE
113 033007 % CONFIDENCE
114 033007 % CONFIDENCE
115 033007 % CONFIDENCE
116 033007 % CONFIDENCE
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119 033007 % CONFIDENCE
120 033007 % CONFIDENCE
121 033007 % CONFIDENCE
122 033007 % CONFIDENCE
123 033007 % CONFIDENCE
124 033007 % CONFIDENCE
125 033007 % CONFIDENCE
126 033007 % CONFIDENCE
127 033007 % CONFIDENCE
128 033007 % CONFIDENCE
129 033007 % CONFIDENCE
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131 033007 % CONFIDENCE
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136 033007 % CONFIDENCE
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140 033007 % CONFIDENCE
141 033007 % CONFIDENCE
142 033007 % CONFIDENCE
143 033007 % CONFIDENCE
144 033007 % CONFIDENCE
145 033007 % CONFIDENCE
146 033007 % CONFIDENCE
147 033007 % CONFIDENCE

```

```

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

```

```

1 SATELLITE IDENT      0.2390000000E+03 CODE TABLE 1007
2 SATELLITE INSTR     0.4480000000E+03 FLAG TABLE 2021
3 SATELLITE DATA     0.8000000000E+01 FLAG TABLE 2022
4 YEAR                0.2001000000E+04 YEAR
5 MONTH              0.2000000000E+01 MONTH
6 DAY                0.1000000000E+01 DAY
7 HOUR              0.1100000000E+02 HOUR
8 MINUTE            0.0000000000E+00 MINUTE
9 LATITUDE (HIGH)    0.0000000000E+00 DEGREE
10 LONGITUDE (HIGH)  0.7400000000E+02 DEGREE
11 PRESSURE          0.1000000000E+06 PA
12 VERTICAL SIGNIF   0.1000000000E+01 CODE TABLE 8003
13 ELEVATION          MISSING DEGREE
14 SOLAR ELEVATION   MISSING DEGREE
15 LAND/SEA QUALIF   MISSING CODE TABLE 8012
16 SKIN TEMPERATUR   0.2760000000E+03 K
17 CLOUD AMOUNT      0.0000000000E+00 CODE TABLE 20011
18 PRESSURE AT TOP   0.2500000000E+05 PA
19 PRESSURE          0.5000000000E+04 PA
20 PRESSURE          0.3000000000E+04 PA
21 ASSOCIATED FIEL   0.7000000000E+01 CODE TABLE 31021
22 ASSOCIATED FIEL   0.0000000000E+00

```

| | | | | |
|-----|-----------------|------------------|--------------------|-------|
| 23 | TEMPERATURE/DRY | 0.2080000000E+03 | K | |
| 24 | PRESSURE | 0.3000000000E+04 | PA | |
| 25 | PRESSURE | 0.1000000000E+04 | PA | |
| 26 | ASSOCIATED FIEL | 0.7000000000E+01 | CODE TABLE | 31021 |
| 27 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 28 | TEMPERATURE/DRY | 0.2202000000E+03 | K | |
| 29 | PRESSURE | | MISSING PA | |
| 30 | PRESSURE | | MISSING PA | |
| 31 | ASSOCIATED FIEL | | MISSING CODE TABLE | 31021 |
| 32 | ASSOCIATED FIEL | | MISSING | |
| 33 | TEMPERATURE/DRY | | MISSING K | |
| 34 | PRESSURE | | MISSING PA | |
| 35 | PRESSURE | | MISSING PA | |
| 36 | ASSOCIATED FIEL | | MISSING CODE TABLE | 31021 |
| 37 | ASSOCIATED FIEL | | MISSING | |
| 38 | TEMPERATURE/DRY | | MISSING K | |
| 39 | PRESSURE | | MISSING PA | |
| 40 | PRESSURE | | MISSING PA | |
| 41 | ASSOCIATED FIEL | | MISSING CODE TABLE | 31021 |
| 42 | ASSOCIATED FIEL | | MISSING | |
| 43 | TEMPERATURE/DRY | | MISSING K | |
| 44 | PRESSURE | | MISSING PA | |
| 45 | PRESSURE | | MISSING PA | |
| 46 | ASSOCIATED FIEL | | MISSING CODE TABLE | 31021 |
| 47 | ASSOCIATED FIEL | | MISSING | |
| 48 | TEMPERATURE/DRY | | MISSING K | |
| 49 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 50 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 51 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 52 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 53 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 54 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 55 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 56 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 57 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 58 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 59 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 60 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 61 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 62 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 63 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 64 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 65 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 66 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 67 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 68 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 69 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 70 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 71 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 72 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 73 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 74 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 75 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 76 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 77 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 78 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 79 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 80 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 81 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 82 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 83 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 84 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 85 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 86 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 87 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 88 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 89 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 90 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 91 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 92 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 93 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 94 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 95 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 96 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 97 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 98 | IDENTIFICATION | 0.9800000000E+02 | CODE TABLE | 1031 |
| 99 | GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |
| 100 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 101 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 102 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 103 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 104 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 105 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 106 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 107 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 108 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 109 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 110 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 111 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 112 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 113 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 114 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 115 | % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |



```
116 % CONFIDENCE      0.7000000000E+02 NUMERIC
117 % CONFIDENCE      0.7000000000E+02 NUMERIC
118 % CONFIDENCE      0.7500000000E+02 NUMERIC
119 % CONFIDENCE      0.7500000000E+02 NUMERIC
120 % CONFIDENCE      0.7000000000E+02 NUMERIC
121 % CONFIDENCE      0.7000000000E+02 NUMERIC
122 % CONFIDENCE      0.7000000000E+02 NUMERIC
123 % CONFIDENCE      0.7500000000E+02 NUMERIC
124 % CONFIDENCE      0.7500000000E+02 NUMERIC
125 % CONFIDENCE      0.7000000000E+02 NUMERIC
126 % CONFIDENCE      0.7000000000E+02 NUMERIC
127 % CONFIDENCE      0.7000000000E+02 NUMERIC
128 % CONFIDENCE      0.7000000000E+02 NUMERIC
129 % CONFIDENCE      0.7000000000E+02 NUMERIC
130 % CONFIDENCE      0.7000000000E+02 NUMERIC
131 % CONFIDENCE      0.7000000000E+02 NUMERIC
132 % CONFIDENCE      0.7000000000E+02 NUMERIC
133 % CONFIDENCE      0.7000000000E+02 NUMERIC
134 % CONFIDENCE      0.7000000000E+02 NUMERIC
135 % CONFIDENCE      0.7000000000E+02 NUMERIC
136 % CONFIDENCE      0.7000000000E+02 NUMERIC
137 % CONFIDENCE      0.7000000000E+02 NUMERIC
138 % CONFIDENCE      0.7000000000E+02 NUMERIC
139 % CONFIDENCE      0.7000000000E+02 NUMERIC
140 % CONFIDENCE      0.7000000000E+02 NUMERIC
141 % CONFIDENCE      0.7000000000E+02 NUMERIC
142 % CONFIDENCE      0.7000000000E+02 NUMERIC
143 % CONFIDENCE      0.7000000000E+02 NUMERIC
144 % CONFIDENCE      0.7000000000E+02 NUMERIC
145 % CONFIDENCE      0.7000000000E+02 NUMERIC
146 % CONFIDENCE      0.7000000000E+02 NUMERIC
147 % CONFIDENCE      0.7000000000E+02 NUMERIC
```

3.17 Satob wind

RDB type 3, subtype 82

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
  BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 414
BUFR EDITION NUMBER              3
1
  BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                5
BUFR MESSAGE SUBTYPE             82
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
  BUFR SECTION 2
LENGTH OF SECTION 2              52
REPORT DATA BASE KEY
RDB DATA TYPE                   3
RDB DATA SUBTYPE                82
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           0
SECOND                           0
LATITUDE 1                       3.00
LONGITUDE 1                      -8.00
LATITUDE 2                       9.00
LONGITUDE 2                      -2.00
NUMBER OF OBSERVATIONS            8
IDENTIFIER                       54
TOTAL BUFR MESSAGE LENGTH        414
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             12
MINUTE (RDB INSERTION)           14
SECOND (RDB INSERTION)           27
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               12
MINUTE (MDB ARRIVAL)             12
SECOND (MDB ARRIVAL)             10
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
  BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      26
RESERVED                          0
NUMBER OF DATA SUBSETS           8
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)
```


1 301043
 2 304001
 3 222000
 4 101015
 5 031031
 6 001031
 7 001032
 8 101015
 9 033007

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
 2 002023 SATELLITE DERIVED WIND COMPUTATION METHOD
 3 004001 YEAR
 4 004002 MONTH
 5 004003 DAY
 6 004004 HOUR
 7 004005 MINUTE
 8 004006 SECOND
 9 005001 LATITUDE (HIGH ACCURACY)
 10 006001 LONGITUDE (HIGH ACCURACY)
 11 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
 12 010004 PRESSURE
 13 012001 TEMPERATURE/DRY BULB TEMPERATURE
 14 011001 WIND DIRECTION
 15 011002 WIND SPEED
 16 222000 QUALITY INFORMATION FOLLOW
 17 031031 DATA PRESENT INDICATOR
 18 031031 DATA PRESENT INDICATOR
 19 031031 DATA PRESENT INDICATOR
 20 031031 DATA PRESENT INDICATOR
 21 031031 DATA PRESENT INDICATOR
 22 031031 DATA PRESENT INDICATOR
 23 031031 DATA PRESENT INDICATOR
 24 031031 DATA PRESENT INDICATOR
 25 031031 DATA PRESENT INDICATOR
 26 031031 DATA PRESENT INDICATOR
 27 031031 DATA PRESENT INDICATOR
 28 031031 DATA PRESENT INDICATOR
 29 031031 DATA PRESENT INDICATOR
 30 031031 DATA PRESENT INDICATOR
 31 031031 DATA PRESENT INDICATOR
 32 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
 33 001032 GENERATING APPLICATION
 34 033007 % CONFIDENCE
 35 033007 % CONFIDENCE
 36 033007 % CONFIDENCE
 37 033007 % CONFIDENCE
 38 033007 % CONFIDENCE
 39 033007 % CONFIDENCE
 40 033007 % CONFIDENCE
 41 033007 % CONFIDENCE
 42 033007 % CONFIDENCE
 43 033007 % CONFIDENCE
 44 033007 % CONFIDENCE
 45 033007 % CONFIDENCE
 46 033007 % CONFIDENCE
 47 033007 % CONFIDENCE
 48 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|-----------------|-------------------|-------------|------|
| 1 | SATELLITE IDENT | 0.5400000000E+02 | CODE TABLE | 1007 |
| 2 | SATELLITE DERIV | 0.1000000000E+01 | CODE TABLE | 2023 |
| 3 | YEAR | 0.2001000000E+04 | YEAR | |
| 4 | MONTH | 0.2000000000E+01 | MONTH | |
| 5 | DAY | 0.1000000000E+01 | DAY | |
| 6 | HOUR | 0.1100000000E+02 | HOUR | |
| 7 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 8 | SECOND | 0.0000000000E+00 | SECOND | |
| 9 | LATITUDE (HIGH | 0.3000000000E+01 | DEGREE | |
| 10 | LONGITUDE (HIGH | -0.7000000000E+01 | DEGREE | |
| 11 | VERTICAL SIGNIF | 0.2000000000E+01 | CODE TABLE | 8003 |
| 12 | PRESSURE | 0.3200000000E+05 | PA | |
| 13 | TEMPERATURE/DRY | 0.2453000000E+03 | K | |
| 14 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 15 | WIND SPEED | 0.2100000000E+02 | M/S | |
| 16 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 17 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 18 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 19 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 20 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 21 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 22 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 23 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 24 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 25 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 26 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 27 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 28 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |



```
29 DATA PRESENT IN 0.000000000E+00 NUMERIC
30 DATA PRESENT IN 0.000000000E+00 NUMERIC
31 DATA PRESENT IN 0.000000000E+00 NUMERIC
32 IDENTIFICATION 0.980000000E+02 CODE TABLE 1031
33 GENERATING APPL 0.100000000E+01 CODE TABLE 1032
34 % CONFIDENCE 0.700000000E+02 NUMERIC
35 % CONFIDENCE 0.700000000E+02 NUMERIC
36 % CONFIDENCE 0.700000000E+02 NUMERIC
37 % CONFIDENCE 0.700000000E+02 NUMERIC
38 % CONFIDENCE 0.700000000E+02 NUMERIC
39 % CONFIDENCE 0.700000000E+02 NUMERIC
40 % CONFIDENCE 0.700000000E+02 NUMERIC
41 % CONFIDENCE 0.700000000E+02 NUMERIC
42 % CONFIDENCE 0.700000000E+02 NUMERIC
43 % CONFIDENCE 0.700000000E+02 NUMERIC
44 % CONFIDENCE 0.700000000E+02 NUMERIC
45 % CONFIDENCE 0.790000000E+02 NUMERIC
46 % CONFIDENCE 0.700000000E+02 NUMERIC
47 % CONFIDENCE 0.700000000E+02 NUMERIC
48 % CONFIDENCE 0.700000000E+02 NUMERIC
```



3.18 Satob wind and temperature data

RDB type 3, subtype 83

```

          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 218
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 5
BUFR MESSAGE SUBTYPE             83
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           46
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                    3
RDB DATA SUBTYPE                 83
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           46
SECOND                            0
LATITUDE 1                       -7.00
LONGITUDE 1                      -178.00
LATITUDE 2                       -5.00
LONGITUDE 2                      -175.00
NUMBER OF OBSERVATIONS            3
IDENTIFIER                       105
TOTAL BUFR MESSAGE LENGTH        218
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             14
MINUTE (RDB INSERTION)           26
SECOND (RDB INSERTION)           7
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               14
MINUTE (MDB ARRIVAL)             23
SECOND (MDB ARRIVAL)             56
CORRECTION NUMBER                0
PART OF MESSAGE                   1
CORRECTION NUMBER                0
PART OF MESSAGE                   0
CORRECTION NUMBER                0
PART OF MESSAGE                   0
CORRECTION NUMBER                0
PART OF MESSAGE                   0
CORRECTION NUMBER                0
PART OF MESSAGE                   0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      26
RESERVED                          0
NUMBER OF DATA SUBSETS           3
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

```

1 301043
2 304002
3 222000
4 101014
5 031031
6 001031
7 001032
8 101014
9 033007

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 002023 SATELLITE DERIVED WIND COMPUTATION METHOD
3 004001 YEAR
4 004002 MONTH
5 004003 DAY
6 004004 HOUR
7 004005 MINUTE
8 004006 SECOND
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
12 010004 PRESSURE
13 011001 WIND DIRECTION
14 011002 WIND SPEED
15 222000 QUALITY INFORMATION FOLLOW
16 031031 DATA PRESENT INDICATOR
17 031031 DATA PRESENT INDICATOR
18 031031 DATA PRESENT INDICATOR
19 031031 DATA PRESENT INDICATOR
20 031031 DATA PRESENT INDICATOR
21 031031 DATA PRESENT INDICATOR
22 031031 DATA PRESENT INDICATOR
23 031031 DATA PRESENT INDICATOR
24 031031 DATA PRESENT INDICATOR
25 031031 DATA PRESENT INDICATOR
26 031031 DATA PRESENT INDICATOR
27 031031 DATA PRESENT INDICATOR
28 031031 DATA PRESENT INDICATOR
29 031031 DATA PRESENT INDICATOR
30 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
31 001032 GENERATING APPLICATION
32 033007 % CONFIDENCE
33 033007 % CONFIDENCE
34 033007 % CONFIDENCE
35 033007 % CONFIDENCE
36 033007 % CONFIDENCE
37 033007 % CONFIDENCE
38 033007 % CONFIDENCE
39 033007 % CONFIDENCE
40 033007 % CONFIDENCE
41 033007 % CONFIDENCE
42 033007 % CONFIDENCE
43 033007 % CONFIDENCE
44 033007 % CONFIDENCE
45 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|-----------------|-------------------|-------------|------|
| 1 | SATELLITE IDENT | 0.1050000000E+03 | CODE TABLE | 1007 |
| 2 | SATELLITE DERIV | 0.1000000000E+01 | CODE TABLE | 2023 |
| 3 | YEAR | 0.2001000000E+04 | YEAR | |
| 4 | MONTH | 0.2000000000E+01 | MONTH | |
| 5 | DAY | 0.1000000000E+01 | DAY | |
| 6 | HOUR | 0.1100000000E+02 | HOUR | |
| 7 | MINUTE | 0.4600000000E+02 | MINUTE | |
| 8 | SECOND | 0.0000000000E+00 | SECOND | |
| 9 | LATITUDE (HIGH | -0.5000000000E+01 | DEGREE | |
| 10 | LONGITUDE (HIGH | -0.1750000000E+03 | DEGREE | |
| 11 | VERTICAL SIGNIF | 0.2000000000E+01 | CODE TABLE | 8003 |
| 12 | PRESSURE | 0.2500000000E+05 | PA | |
| 13 | WIND DIRECTION | 0.2300000000E+03 | DEGREE TRUE | |
| 14 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 15 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 16 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 17 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 18 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 19 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 20 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 21 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 22 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 23 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 24 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 25 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 26 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 27 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 28 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 29 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 30 | IDENTIFICATION | 0.9800000000E+02 | CODE TABLE | 1031 |
| 31 | GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |



```
32 % CONFIDENCE      0.7000000000E+02 NUMERIC
33 % CONFIDENCE      0.7000000000E+02 NUMERIC
34 % CONFIDENCE      0.7000000000E+02 NUMERIC
35 % CONFIDENCE      0.7000000000E+02 NUMERIC
36 % CONFIDENCE      0.7000000000E+02 NUMERIC
37 % CONFIDENCE      0.7000000000E+02 NUMERIC
38 % CONFIDENCE      0.7000000000E+02 NUMERIC
39 % CONFIDENCE      0.7000000000E+02 NUMERIC
40 % CONFIDENCE      0.7000000000E+02 NUMERIC
41 % CONFIDENCE      0.7000000000E+02 NUMERIC
42 % CONFIDENCE      0.7000000000E+02 NUMERIC
43 % CONFIDENCE      0.7500000000E+02 NUMERIC
44 % CONFIDENCE      0.7000000000E+02 NUMERIC
45 % CONFIDENCE      0.7000000000E+02 NUMERIC
```

3.19 Satob section 5

RDB type 3, subtype 85

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 3252
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 5
BUFR MESSAGE SUBTYPE             85
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2
LENGTH OF SECTION 2              52
    REPORT DATA BASE KEY
RDB DATA TYPE                   3
RDB DATA SUBTYPE                85
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           0
SECOND                           0
LATITUDE 1                       0.00
LONGITUDE 1                      -9.00
LATITUDE 2                       9.00
LONGITUDE 2                      0.00
NUMBER OF OBSERVATIONS            90
IDENTIFIER                       54
TOTAL BUFR MESSAGE LENGTH        3252
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             12
MINUTE (RDB INSERTION)           14
SECOND (RDB INSERTION)           9
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               12
MINUTE (MDB ARRIVAL)             12
SECOND (MDB ARRIVAL)             9
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      26
RESERVED                          0
NUMBER OF DATA SUBSETS           90
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)
```

1 301043
 2 304004
 3 222000
 4 101014
 5 031031
 6 001031
 7 001032
 8 101014
 9 033007

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
 2 002023 SATELLITE DERIVED WIND COMPUTATION METHOD
 3 004001 YEAR
 4 004002 MONTH
 5 004003 DAY
 6 004004 HOUR
 7 004005 MINUTE
 8 004006 SECOND
 9 005001 LATITUDE (HIGH ACCURACY)
 10 006001 LONGITUDE (HIGH ACCURACY)
 11 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
 12 010004 PRESSURE
 13 020010 CLOUD COVER (TOTAL)
 14 012001 TEMPERATURE/DRY BULB TEMPERATURE
 15 222000 QUALITY INFORMATION FOLLOW
 16 031031 DATA PRESENT INDICATOR
 17 031031 DATA PRESENT INDICATOR
 18 031031 DATA PRESENT INDICATOR
 19 031031 DATA PRESENT INDICATOR
 20 031031 DATA PRESENT INDICATOR
 21 031031 DATA PRESENT INDICATOR
 22 031031 DATA PRESENT INDICATOR
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 24 031031 DATA PRESENT INDICATOR
 25 031031 DATA PRESENT INDICATOR
 26 031031 DATA PRESENT INDICATOR
 27 031031 DATA PRESENT INDICATOR
 28 031031 DATA PRESENT INDICATOR
 29 031031 DATA PRESENT INDICATOR
 30 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
 31 001032 GENERATING APPLICATION
 32 033007 % CONFIDENCE
 33 033007 % CONFIDENCE
 34 033007 % CONFIDENCE
 35 033007 % CONFIDENCE
 36 033007 % CONFIDENCE
 37 033007 % CONFIDENCE
 38 033007 % CONFIDENCE
 39 033007 % CONFIDENCE
 40 033007 % CONFIDENCE
 41 033007 % CONFIDENCE
 42 033007 % CONFIDENCE
 43 033007 % CONFIDENCE
 44 033007 % CONFIDENCE
 45 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|-----------------|------------------|--------------------|------|
| 1 | SATELLITE IDENT | 0.5400000000E+02 | CODE TABLE | 1007 |
| 2 | SATELLITE DERIV | | MISSING CODE TABLE | 2023 |
| 3 | YEAR | 0.2001000000E+04 | YEAR | |
| 4 | MONTH | 0.2000000000E+01 | MONTH | |
| 5 | DAY | 0.1000000000E+01 | DAY | |
| 6 | HOUR | 0.1100000000E+02 | HOUR | |
| 7 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 8 | SECOND | 0.0000000000E+00 | SECOND | |
| 9 | LATITUDE (HIGH | 0.0000000000E+00 | DEGREE | |
| 10 | LONGITUDE (HIGH | 0.0000000000E+00 | DEGREE | |
| 11 | VERTICAL SIGNIF | 0.2000000000E+01 | CODE TABLE | 8003 |
| 12 | PRESSURE | | MISSING PA | |
| 13 | CLOUD COVER (TO | 0.0000000000E+00 | % | |
| 14 | TEMPERATURE/DRY | | MISSING K | |
| 15 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 16 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 17 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 18 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 19 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 20 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 21 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 22 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 23 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 24 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 25 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 26 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 27 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 28 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 29 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 30 | IDENTIFICATION | 0.9800000000E+02 | CODE TABLE | 1031 |
| 31 | GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |



```
32 % CONFIDENCE      0.7000000000E+02 NUMERIC
33 % CONFIDENCE      0.7000000000E+02 NUMERIC
34 % CONFIDENCE      0.7000000000E+02 NUMERIC
35 % CONFIDENCE      0.7000000000E+02 NUMERIC
36 % CONFIDENCE      0.7000000000E+02 NUMERIC
37 % CONFIDENCE      0.7000000000E+02 NUMERIC
38 % CONFIDENCE      0.7000000000E+02 NUMERIC
39 % CONFIDENCE      0.7000000000E+02 NUMERIC
40 % CONFIDENCE      0.7000000000E+02 NUMERIC
41 % CONFIDENCE      0.7000000000E+02 NUMERIC
42 % CONFIDENCE      0.7000000000E+02 NUMERIC
43 % CONFIDENCE      0.7000000000E+02 NUMERIC
44 % CONFIDENCE      0.7000000000E+02 NUMERIC
45 % CONFIDENCE      0.7000000000E+02 NUMERIC
```




3.20 High Density winds

RDB type 3, subtype 87

```

ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 3348
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE               0
    ORIGINATING CENTRE                   98
    UPDATE SEQUENCE NUMBER               0
    FLAG (PRESENCE OF SECTION 2)        128
    BUFR MESSAGE TYPE                    5
    BUFR MESSAGE SUBTYPE                 87
    VERSION NUMBER OF LOCAL TABLE       1
    YEAR                                  1
    MONTH                                 2
    DAY                                   1
    HOUR                                  9
    MINUTE                                30
    VERSION NUMBER OF MASTER TABLE      6
    BUFR MASTER TABLE                   0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                   52
    REPORT DATA BASE KEY
    RDB DATA TYPE                       3
    RDB DATA SUBTYPE                     87
    YEAR                                  2001
    MONTH                                 2
    DAY                                   1
    HOUR                                  9
    MINUTE                                30
    SECOND                                0
    LATITUDE 1                           -59.35
    LONGITUDE 1                          -31.28
    LATITUDE 2                           -49.77
    LONGITUDE 2                           35.33
    NUMBER OF OBSERVATIONS                128
    IDENTIFIER                            54
    TOTAL BUFR MESSAGE LENGTH             3348
    DAY (RDB INSERTION)                   1
    HOUR (RDB INSERTION)                  10
    MINUTE (RDB INSERTION)                14
    SECOND (RDB INSERTION)                10
    DAY (MDB ARRIVAL)                     1
    HOUR (MDB ARRIVAL)                    10
    MINUTE (MDB ARRIVAL)                  10
    SECOND (MDB ARRIVAL)                   42
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                       0
    QUALITY CONTROL % CONF                70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)           50
    RESERVED                               0
    NUMBER OF DATA SUBSETS                128
    FLAG (DATA TYPE/DATA COMPRESSION)     192

DATA DESCRIPTORS (UNEXPANDED)

```

1 310195
2 222000
3 236000
4 101103
5 031031
6 001031
7 001032
8 101004
9 033007
10 222000
11 237000
12 001031
13 001032
14 101004
15 033252
16 222000
17 237000
18 001031
19 001032
20 101004
21 033253

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
3 002196 SATELLITE CLASSIFICATION
4 002221 SEGMENT SIZE AT NADIR IN X DIRECTION
5 002222 SEGMENT SIZE AT NADIR IN Y DIRECTION
6 004001 YEAR
7 004002 MONTH
8 004003 DAY
9 004004 HOUR
10 004005 MINUTE
11 004006 SECOND
12 005001 LATITUDE (HIGH ACCURACY)
13 006001 LONGITUDE (HIGH ACCURACY)
14 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
15 002023 SATELLITE DERIVED WIND COMPUTATION METHOD
16 007004 PRESSURE
17 011001 WIND DIRECTION
18 011002 WIND SPEED
19 002197 SATELLITE CHANNEL CENTRE FREQUENCY
20 002198 SATELLITE CHANNEL BAND WIDTH
21 012193 COLDEST CLUSTER TEMPERATURE
22 002231 HEIGHT ASSIGNMENT METHOD
23 002232 TRACER CORRELATION METHOD
24 008012 LAND/SEA QUALIFIER
25 007024 SATELLITE ZENITH ANGLE
26 002057 ORIGIN OF FIRST GUESS INFORMATION
27 008021 TIME SIGNIFICANCE
28 004001 YEAR
29 004002 MONTH
30 004003 DAY
31 004004 HOUR
32 008021 TIME SIGNIFICANCE
33 004024 TIME PERIOD OR DISPLACEMENT
34 008021 TIME SIGNIFICANCE
35 004004 HOUR
36 004005 MINUTE
37 004006 SECOND
38 008021 TIME SIGNIFICANCE
39 004004 HOUR
40 004005 MINUTE
41 004006 SECOND
42 011001 WIND DIRECTION
43 011002 WIND SPEED
44 008021 TIME SIGNIFICANCE
45 004004 HOUR
46 004005 MINUTE
47 004006 SECOND
48 008021 TIME SIGNIFICANCE
49 004004 HOUR
50 004005 MINUTE
51 004006 SECOND
52 011001 WIND DIRECTION
53 011002 WIND SPEED
54 008021 TIME SIGNIFICANCE
55 004004 HOUR
56 004005 MINUTE
57 004006 SECOND
58 008021 TIME SIGNIFICANCE
59 004004 HOUR
60 004005 MINUTE
61 004006 SECOND
62 011001 WIND DIRECTION
63 011002 WIND SPEED
64 008021 TIME SIGNIFICANCE
65 004004 HOUR
66 004005 MINUTE
67 004006 SECOND
68 008021 TIME SIGNIFICANCE

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69 004004 HOUR
70 004005 MINUTE
71 004006 SECOND
72 011001 WIND DIRECTION
73 011002 WIND SPEED
74 002231 HEIGHT ASSIGNMENT METHOD
75 007004 PRESSURE
76 012001 TEMPERATURE/DRY BULB TEMPERATURE
77 002231 HEIGHT ASSIGNMENT METHOD
78 007004 PRESSURE
79 012001 TEMPERATURE/DRY BULB TEMPERATURE
80 002231 HEIGHT ASSIGNMENT METHOD
81 007004 PRESSURE
82 012001 TEMPERATURE/DRY BULB TEMPERATURE
83 002231 HEIGHT ASSIGNMENT METHOD
84 007004 PRESSURE
85 012001 TEMPERATURE/DRY BULB TEMPERATURE
86 002231 HEIGHT ASSIGNMENT METHOD
87 007004 PRESSURE
88 012001 TEMPERATURE/DRY BULB TEMPERATURE
89 002231 HEIGHT ASSIGNMENT METHOD
90 007004 PRESSURE
91 012001 TEMPERATURE/DRY BULB TEMPERATURE
92 002231 HEIGHT ASSIGNMENT METHOD
93 007004 PRESSURE
94 012001 TEMPERATURE/DRY BULB TEMPERATURE
95 002231 HEIGHT ASSIGNMENT METHOD
96 007004 PRESSURE
97 012001 TEMPERATURE/DRY BULB TEMPERATURE
98 002231 HEIGHT ASSIGNMENT METHOD
99 007004 PRESSURE
100 012001 TEMPERATURE/DRY BULB TEMPERATURE
101 002231 HEIGHT ASSIGNMENT METHOD
102 007004 PRESSURE
103 012001 TEMPERATURE/DRY BULB TEMPERATURE
104 222000 QUALITY INFORMATION FOLLOW
105 236000 BACKWARD REFERENCE BIT MAP
106 031031 DATA PRESENT INDICATOR
107 031031 DATA PRESENT INDICATOR
108 031031 DATA PRESENT INDICATOR
109 031031 DATA PRESENT INDICATOR
110 031031 DATA PRESENT INDICATOR
111 031031 DATA PRESENT INDICATOR
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162 031031 DATA PRESENT INDICATOR
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205 031031 DATA PRESENT INDICATOR
206 031031 DATA PRESENT INDICATOR
207 031031 DATA PRESENT INDICATOR
208 031031 DATA PRESENT INDICATOR
209 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
210 001032 GENERATING APPLICATION
211 033007 % CONFIDENCE
212 033007 % CONFIDENCE
213 033007 % CONFIDENCE
214 033007 % CONFIDENCE
215 222000 QUALITY INFORMATION FOLLOW
216 237000 USE PREVIOUSLY DEFINED BIT MAP
217 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
218 001032 GENERATING APPLICATION
219 033252 MANUAL-AUTOMATIC QUALITY CONTROL
220 033252 MANUAL-AUTOMATIC QUALITY CONTROL
221 033252 MANUAL-AUTOMATIC QUALITY CONTROL
222 033252 MANUAL-AUTOMATIC QUALITY CONTROL
223 222000 QUALITY INFORMATION FOLLOW
224 237000 USE PREVIOUSLY DEFINED BIT MAP
225 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
226 001032 GENERATING APPLICATION
227 033253 NOMINAL CONFIDENCE THRESHOLD
228 033253 NOMINAL CONFIDENCE THRESHOLD
229 033253 NOMINAL CONFIDENCE THRESHOLD
230 033253 NOMINAL CONFIDENCE THRESHOLD

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|------------------|-------------------|-------------|------|
| 1 | SATELLITE IDENT | 0.5400000000E+02 | CODE TABLE | 1007 |
| 2 | IDENTIFICATION | 0.2540000000E+03 | CODE TABLE | 1031 |
| 3 | SATELLITE CLASS | 0.3320000000E+03 | CODE TABLE | 2196 |
| 4 | SEGMENT SIZE AT | 0.1600000000E+06 | M | |
| 5 | SEGMENT SIZE AT | 0.1600000000E+06 | M | |
| 6 | YEAR | 0.2001000000E+04 | YEAR | |
| 7 | MONTH | 0.2000000000E+01 | MONTH | |
| 8 | DAY | 0.1000000000E+01 | DAY | |
| 9 | HOUR | 0.9000000000E+01 | HOUR | |
| 10 | MINUTE | 0.3000000000E+02 | MINUTE | |
| 11 | SECOND | 0.0000000000E+00 | SECOND | |
| 12 | LATITUDE (HIGH) | -0.5934919000E+02 | DEGREE | |
| 13 | LONGITUDE (HIGH) | 0.1288555000E+02 | DEGREE | |
| 14 | SATELLITE INSTR | 0.2560000000E+03 | FLAG TABLE | 2252 |
| 15 | SATELLITE DERIV | 0.1000000000E+01 | CODE TABLE | 2023 |
| 16 | PRESSURE | 0.4220000000E+05 | PA | |
| 17 | WIND DIRECTION | 0.8900000000E+02 | DEGREE TRUE | |
| 18 | WIND SPEED | 0.1950000000E+02 | M/S | |
| 19 | SATELLITE CHANN | 0.2650000000E+14 | Hz | |
| 20 | SATELLITE CHANN | 0.3090000000E+13 | Hz | |

| | | | | |
|-----|-----------------|------------------|---------------------|------|
| 21 | COLDEST CLUSTER | 0.2397000000E+03 | K | |
| 22 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 23 | TRACER CORRELAT | | MISSING CODE TABLE | 2232 |
| 24 | LAND/SEA QUALIF | | MISSING CODE TABLE | 8012 |
| 25 | SATELLITE ZENIT | 0.6700000000E+02 | DEGREE | |
| 26 | ORIGIN OF FIRST | | MISSING CODE TABLE | 2057 |
| 27 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 28 | YEAR | | MISSING YEAR | |
| 29 | MONTH | | MISSING MONTH | |
| 30 | DAY | | MISSING DAY | |
| 31 | HOUR | | MISSING HOUR | |
| 32 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 33 | TIME PERIOD OR | | MISSING HOUR | |
| 34 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 35 | HOUR | | MISSING HOUR | |
| 36 | MINUTE | | MISSING MINUTE | |
| 37 | SECOND | | MISSING SECOND | |
| 38 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 39 | HOUR | | MISSING HOUR | |
| 40 | MINUTE | | MISSING MINUTE | |
| 41 | SECOND | | MISSING SECOND | |
| 42 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 43 | WIND SPEED | | MISSING M/S | |
| 44 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 45 | HOUR | | MISSING HOUR | |
| 46 | MINUTE | | MISSING MINUTE | |
| 47 | SECOND | | MISSING SECOND | |
| 48 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 49 | HOUR | | MISSING HOUR | |
| 50 | MINUTE | | MISSING MINUTE | |
| 51 | SECOND | | MISSING SECOND | |
| 52 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 53 | WIND SPEED | | MISSING M/S | |
| 54 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 55 | HOUR | | MISSING HOUR | |
| 56 | MINUTE | | MISSING MINUTE | |
| 57 | SECOND | | MISSING SECOND | |
| 58 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 59 | HOUR | | MISSING HOUR | |
| 60 | MINUTE | | MISSING MINUTE | |
| 61 | SECOND | | MISSING SECOND | |
| 62 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 63 | WIND SPEED | | MISSING M/S | |
| 64 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 65 | HOUR | | MISSING HOUR | |
| 66 | MINUTE | | MISSING MINUTE | |
| 67 | SECOND | | MISSING SECOND | |
| 68 | TIME SIGNIFICAN | | MISSING CODE TABLE | 8021 |
| 69 | HOUR | | MISSING HOUR | |
| 70 | MINUTE | | MISSING MINUTE | |
| 71 | SECOND | | MISSING SECOND | |
| 72 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 73 | WIND SPEED | | MISSING M/S | |
| 74 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 75 | PRESSURE | | MISSING PA | |
| 76 | TEMPERATURE/DRY | | MISSING K | |
| 77 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 78 | PRESSURE | | MISSING PA | |
| 79 | TEMPERATURE/DRY | | MISSING K | |
| 80 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 81 | PRESSURE | | MISSING PA | |
| 82 | TEMPERATURE/DRY | | MISSING K | |
| 83 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 84 | PRESSURE | | MISSING PA | |
| 85 | TEMPERATURE/DRY | | MISSING K | |
| 86 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 87 | PRESSURE | | MISSING PA | |
| 88 | TEMPERATURE/DRY | | MISSING K | |
| 89 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 90 | PRESSURE | | MISSING PA | |
| 91 | TEMPERATURE/DRY | | MISSING K | |
| 92 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 93 | PRESSURE | | MISSING PA | |
| 94 | TEMPERATURE/DRY | | MISSING K | |
| 95 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 96 | PRESSURE | | MISSING PA | |
| 97 | TEMPERATURE/DRY | | MISSING K | |
| 98 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 99 | PRESSURE | | MISSING PA | |
| 100 | TEMPERATURE/DRY | | MISSING K | |
| 101 | HEIGHT ASSIGNME | | MISSING CODE TABLE | 2231 |
| 102 | PRESSURE | | MISSING PA | |
| 103 | TEMPERATURE/DRY | | MISSING K | |
| 104 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 105 | BACKWARD REFERE | 0.0000000000E+00 | | |
| 106 | DATA PRESENT IN | | MISSING NUMERIC | |
| 107 | DATA PRESENT IN | | MISSING NUMERIC | |
| 108 | DATA PRESENT IN | | MISSING NUMERIC | |
| 109 | DATA PRESENT IN | | MISSING NUMERIC | |
| 110 | DATA PRESENT IN | | MISSING NUMERIC | |
| 111 | DATA PRESENT IN | | MISSING NUMERIC | |
| 112 | DATA PRESENT IN | | MISSING NUMERIC | |
| 113 | DATA PRESENT IN | | MISSING NUMERIC | |



| | | | |
|---------------------|------------------|------------|-------|
| 207 DATA PRESENT IN | MISSING NUMERIC | | |
| 208 DATA PRESENT IN | MISSING NUMERIC | | |
| 209 IDENTIFICATION | 0.2540000000E+03 | CODE TABLE | 1031 |
| 210 GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |
| 211 % CONFIDENCE | 0.5400000000E+02 | NUMERIC | |
| 212 % CONFIDENCE | 0.5400000000E+02 | NUMERIC | |
| 213 % CONFIDENCE | 0.5400000000E+02 | NUMERIC | |
| 214 % CONFIDENCE | 0.5400000000E+02 | NUMERIC | |
| 215 QUALITY INFORMA | 0.0000000000E+00 | | |
| 216 USE PREVIOUSLY | 0.0000000000E+00 | | |
| 217 IDENTIFICATION | 0.2540000000E+03 | CODE TABLE | 1031 |
| 218 GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |
| 219 MANUAL-AUTOMATI | 0.3000000000E+01 | CODE TABLE | 33252 |
| 220 MANUAL-AUTOMATI | 0.3000000000E+01 | CODE TABLE | 33252 |
| 221 MANUAL-AUTOMATI | 0.3000000000E+01 | CODE TABLE | 33252 |
| 222 MANUAL-AUTOMATI | 0.3000000000E+01 | CODE TABLE | 33252 |
| 223 QUALITY INFORMA | 0.0000000000E+00 | | |
| 224 USE PREVIOUSLY | 0.0000000000E+00 | | |
| 225 IDENTIFICATION | 0.2540000000E+03 | CODE TABLE | 1031 |
| 226 GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |
| 227 NOMINAL CONFIDE | 0.8000000000E+02 | % | |
| 228 NOMINAL CONFIDE | 0.8000000000E+02 | % | |
| 229 NOMINAL CONFIDE | 0.8000000000E+02 | % | |
| 230 NOMINAL CONFIDE | 0.8000000000E+02 | % | |

3.21 Pilot land

RDB type 4, subtype 91

```

                                ECMWF
                                BUFR DECODING SOFTWARE VERSION - 6.1
                                25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 956
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           5
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 2
BUFR MESSAGE SUBTYPE             91
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   4
RDB DATA SUBTYPE                91
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                           0
SECOND                           0
LATITUDE 1                       52.42
LONGITUDE 1                      -4.00
IDENTIFIER                       03501
TOTAL BUFR MESSAGE LENGTH        956
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             10
MINUTE (RDB INSERTION)           14
SECOND (RDB INSERTION)           11
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               10
MINUTE (MDB ARRIVAL)             12
SECOND (MDB ARRIVAL)             35
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  1
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      52
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

1  301001
2  002011
```


3 002012
 4 301011
 5 301012
 6 301022
 7 105000
 8 031001
 9 007004
 10 008001
 11 010003
 12 011001
 13 011002
 14 222000
 15 101000
 16 031002
 17 031031
 18 001031
 19 001032
 20 101000
 21 031002
 22 033007

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
 2 001002 WMO STATION NUMBER
 3 002011 RADIOSONDE TYPE
 4 002012 RADIOSONDE COMPUTATIONAL METHOD
 5 004001 YEAR
 6 004002 MONTH
 7 004003 DAY
 8 004004 HOUR
 9 004005 MINUTE
 10 005001 LATITUDE (HIGH ACCURACY)
 11 006001 LONGITUDE (HIGH ACCURACY)
 12 007001 HEIGHT OF STATION
 13 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
 14 007004 PRESSURE
 15 008001 VERTICAL SOUNDING SIGNIFICANCE
 16 010003 GEOPOTENTIAL
 17 011001 WIND DIRECTION
 18 011002 WIND SPEED
 19 007004 PRESSURE
 20 008001 VERTICAL SOUNDING SIGNIFICANCE
 21 010003 GEOPOTENTIAL
 22 011001 WIND DIRECTION
 23 011002 WIND SPEED
 24 007004 PRESSURE
 25 008001 VERTICAL SOUNDING SIGNIFICANCE
 26 010003 GEOPOTENTIAL
 27 011001 WIND DIRECTION
 28 011002 WIND SPEED
 29 007004 PRESSURE
 30 008001 VERTICAL SOUNDING SIGNIFICANCE
 31 010003 GEOPOTENTIAL
 32 011001 WIND DIRECTION
 33 011002 WIND SPEED
 34 007004 PRESSURE
 35 008001 VERTICAL SOUNDING SIGNIFICANCE
 36 010003 GEOPOTENTIAL
 37 011001 WIND DIRECTION
 38 011002 WIND SPEED
 39 007004 PRESSURE
 40 008001 VERTICAL SOUNDING SIGNIFICANCE
 41 010003 GEOPOTENTIAL
 42 011001 WIND DIRECTION
 43 011002 WIND SPEED
 44 007004 PRESSURE
 45 008001 VERTICAL SOUNDING SIGNIFICANCE
 46 010003 GEOPOTENTIAL
 47 011001 WIND DIRECTION
 48 011002 WIND SPEED
 49 007004 PRESSURE
 50 008001 VERTICAL SOUNDING SIGNIFICANCE
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 52 011001 WIND DIRECTION
 53 011002 WIND SPEED
 54 007004 PRESSURE
 55 008001 VERTICAL SOUNDING SIGNIFICANCE
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 57 011001 WIND DIRECTION
 58 011002 WIND SPEED
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 63 011002 WIND SPEED
 64 007004 PRESSURE
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 66 010003 GEOPOTENTIAL
 67 011001 WIND DIRECTION
 68 011002 WIND SPEED
 69 007004 PRESSURE

70 008001 VERTICAL SOUNDING SIGNIFICANCE
71 010003 GEOPOTENTIAL
72 011001 WIND DIRECTION
73 011002 WIND SPEED
74 007004 PRESSURE
75 008001 VERTICAL SOUNDING SIGNIFICANCE
76 010003 GEOPOTENTIAL
77 011001 WIND DIRECTION
78 011002 WIND SPEED
79 007004 PRESSURE
80 008001 VERTICAL SOUNDING SIGNIFICANCE
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83 011002 WIND SPEED
84 007004 PRESSURE
85 008001 VERTICAL SOUNDING SIGNIFICANCE
86 010003 GEOPOTENTIAL
87 011001 WIND DIRECTION
88 011002 WIND SPEED
89 007004 PRESSURE
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91 010003 GEOPOTENTIAL
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93 011002 WIND SPEED
94 007004 PRESSURE
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96 010003 GEOPOTENTIAL
97 011001 WIND DIRECTION
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102 011001 WIND DIRECTION
103 011002 WIND SPEED
104 007004 PRESSURE
105 008001 VERTICAL SOUNDING SIGNIFICANCE
106 010003 GEOPOTENTIAL
107 011001 WIND DIRECTION
108 011002 WIND SPEED
109 007004 PRESSURE
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111 010003 GEOPOTENTIAL
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153 011002 WIND SPEED
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162 011001 WIND DIRECTION

163 011002 WIND SPEED
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349 007004 PRESSURE
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351 010003 GEOPOTENTIAL
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353 011002 WIND SPEED
354 222000 QUALITY INFORMATION FOLLOW
355 031002 EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR
356 031031 DATA PRESENT INDICATOR
357 031031 DATA PRESENT INDICATOR
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707 031031 DATA PRESENT INDICATOR
708 031031 DATA PRESENT INDICATOR
709 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
710 001032 GENERATING APPLICATION
711 031002 EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR
712 033007 % CONFIDENCE
713 033007 % CONFIDENCE
714 033007 % CONFIDENCE
715 033007 % CONFIDENCE
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721 033007 % CONFIDENCE
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1 WMO BLOCK NUMBE 0.3000000000E+01 NUMERIC

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|----|------------------|-------------------|--------------------|------|
| 2 | WMO STATION NUM | 0.5010000000E+03 | NUMERIC | |
| 3 | RADIOSONDE TYPE | | MISSING CODE TABLE | 2011 |
| 4 | RADIOSONDE COMP | | MISSING CODE TABLE | 2012 |
| 5 | YEAR | 0.2001000000E+04 | YEAR | |
| 6 | MONTH | 0.2000000000E+01 | MONTH | |
| 7 | DAY | 0.1000000000E+01 | DAY | |
| 8 | HOUR | 0.1000000000E+02 | HOUR | |
| 9 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 10 | LATITUDE (HIGH) | 0.5242000000E+02 | DEGREE | |
| 11 | LONGITUDE (HIGH) | -0.4000000000E+01 | DEGREE | |
| 12 | HEIGHT OF STATI | 0.9200000000E+02 | M | |
| 13 | DELAYED DESCRIP | 0.6800000000E+02 | NUMERIC | |
| 14 | PRESSURE | | MISSING PA | |
| 15 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 16 | GEOPOTENTIAL | 0.2059000000E+05 | M**2/S**2 | |
| 17 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 18 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 19 | PRESSURE | | MISSING PA | |
| 20 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 21 | GEOPOTENTIAL | 0.2354000000E+05 | M**2/S**2 | |
| 22 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 23 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 24 | PRESSURE | | MISSING PA | |
| 25 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 26 | GEOPOTENTIAL | 0.2648000000E+05 | M**2/S**2 | |
| 27 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 28 | WIND SPEED | 0.7000000000E+01 | M/S | |
| 29 | PRESSURE | | MISSING PA | |
| 30 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 31 | GEOPOTENTIAL | 0.2942000000E+05 | M**2/S**2 | |
| 32 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 33 | WIND SPEED | 0.7000000000E+01 | M/S | |
| 34 | PRESSURE | 0.7000000000E+05 | PA | |
| 35 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 36 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 37 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 38 | WIND SPEED | 0.7000000000E+01 | M/S | |
| 39 | PRESSURE | | MISSING PA | |
| 40 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 41 | GEOPOTENTIAL | 0.3236000000E+05 | M**2/S**2 | |
| 42 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 43 | WIND SPEED | 0.7000000000E+01 | M/S | |
| 44 | PRESSURE | | MISSING PA | |
| 45 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 46 | GEOPOTENTIAL | 0.3530000000E+05 | M**2/S**2 | |
| 47 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 48 | WIND SPEED | 0.7000000000E+01 | M/S | |
| 49 | PRESSURE | | MISSING PA | |
| 50 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 51 | GEOPOTENTIAL | 0.3825000000E+05 | M**2/S**2 | |
| 52 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 53 | WIND SPEED | 0.7000000000E+01 | M/S | |
| 54 | PRESSURE | | MISSING PA | |
| 55 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 56 | GEOPOTENTIAL | 0.4119000000E+05 | M**2/S**2 | |
| 57 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 58 | WIND SPEED | 0.7000000000E+01 | M/S | |
| 59 | PRESSURE | | MISSING PA | |
| 60 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 61 | GEOPOTENTIAL | 0.4413000000E+05 | M**2/S**2 | |
| 62 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 63 | WIND SPEED | 0.6000000000E+01 | M/S | |
| 64 | PRESSURE | | MISSING PA | |
| 65 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 66 | GEOPOTENTIAL | 0.4707000000E+05 | M**2/S**2 | |
| 67 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 68 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 69 | PRESSURE | | MISSING PA | |
| 70 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 71 | GEOPOTENTIAL | 0.5001000000E+05 | M**2/S**2 | |
| 72 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 73 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 74 | PRESSURE | | MISSING PA | |
| 75 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 76 | GEOPOTENTIAL | 0.5296000000E+05 | M**2/S**2 | |
| 77 | WIND DIRECTION | 0.2800000000E+03 | DEGREE TRUE | |
| 78 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 79 | PRESSURE | 0.5000000000E+05 | PA | |
| 80 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 81 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 82 | WIND DIRECTION | 0.2800000000E+03 | DEGREE TRUE | |
| 83 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 84 | PRESSURE | | MISSING PA | |
| 85 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 86 | GEOPOTENTIAL | 0.5590000000E+05 | M**2/S**2 | |
| 87 | WIND DIRECTION | 0.2700000000E+03 | DEGREE TRUE | |
| 88 | WIND SPEED | 0.6000000000E+01 | M/S | |
| 89 | PRESSURE | | MISSING PA | |
| 90 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 91 | GEOPOTENTIAL | 0.5884000000E+05 | M**2/S**2 | |
| 92 | WIND DIRECTION | 0.2700000000E+03 | DEGREE TRUE | |
| 93 | WIND SPEED | 0.8000000000E+01 | M/S | |
| 94 | PRESSURE | | MISSING PA | |

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| 95 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 96 | GEOPOTENTIAL | 0.6178000000E+05 | M**2/S**2 | |
| 97 | WIND DIRECTION | 0.2700000000E+03 | DEGREE TRUE | |
| 98 | WIND SPEED | 0.8000000000E+01 | M/S | |
| 99 | PRESSURE | | MISSING PA | |
| 100 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 101 | GEOPOTENTIAL | 0.6472000000E+05 | M**2/S**2 | |
| 102 | WIND DIRECTION | 0.2700000000E+03 | DEGREE TRUE | |
| 103 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 104 | PRESSURE | | MISSING PA | |
| 105 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 106 | GEOPOTENTIAL | 0.6767000000E+05 | M**2/S**2 | |
| 107 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 108 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 109 | PRESSURE | 0.4000000000E+05 | PA | |
| 110 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 111 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 112 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 113 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 114 | PRESSURE | | MISSING PA | |
| 115 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 116 | GEOPOTENTIAL | 0.7061000000E+05 | M**2/S**2 | |
| 117 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 118 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 119 | PRESSURE | | MISSING PA | |
| 120 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 121 | GEOPOTENTIAL | 0.7355000000E+05 | M**2/S**2 | |
| 122 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 123 | WIND SPEED | 0.1100000000E+02 | M/S | |
| 124 | PRESSURE | | MISSING PA | |
| 125 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 126 | GEOPOTENTIAL | 0.7649000000E+05 | M**2/S**2 | |
| 127 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 128 | WIND SPEED | 0.1100000000E+02 | M/S | |
| 129 | PRESSURE | | MISSING PA | |
| 130 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 131 | GEOPOTENTIAL | 0.7943000000E+05 | M**2/S**2 | |
| 132 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 133 | WIND SPEED | 0.1100000000E+02 | M/S | |
| 134 | PRESSURE | | MISSING PA | |
| 135 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 136 | GEOPOTENTIAL | 0.8238000000E+05 | M**2/S**2 | |
| 137 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 138 | WIND SPEED | 0.1000000000E+02 | M/S | |
| 139 | PRESSURE | | MISSING PA | |
| 140 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 141 | GEOPOTENTIAL | 0.8532000000E+05 | M**2/S**2 | |
| 142 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 143 | WIND SPEED | 0.1000000000E+02 | M/S | |
| 144 | PRESSURE | | MISSING PA | |
| 145 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 146 | GEOPOTENTIAL | 0.8826000000E+05 | M**2/S**2 | |
| 147 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 148 | WIND SPEED | 0.1000000000E+02 | M/S | |
| 149 | PRESSURE | 0.3000000000E+05 | PA | |
| 150 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 151 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 152 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 153 | WIND SPEED | 0.1000000000E+02 | M/S | |
| 154 | PRESSURE | | MISSING PA | |
| 155 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 156 | GEOPOTENTIAL | 0.9120000000E+05 | M**2/S**2 | |
| 157 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 158 | WIND SPEED | 0.1100000000E+02 | M/S | |
| 159 | PRESSURE | | MISSING PA | |
| 160 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 161 | GEOPOTENTIAL | 0.9414000000E+05 | M**2/S**2 | |
| 162 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 163 | WIND SPEED | 0.1100000000E+02 | M/S | |
| 164 | PRESSURE | | MISSING PA | |
| 165 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 166 | GEOPOTENTIAL | 0.9709000000E+05 | M**2/S**2 | |
| 167 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 168 | WIND SPEED | 0.1200000000E+02 | M/S | |
| 169 | PRESSURE | | MISSING PA | |
| 170 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 171 | GEOPOTENTIAL | 0.1000300000E+06 | M**2/S**2 | |
| 172 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 173 | WIND SPEED | 0.1500000000E+02 | M/S | |
| 174 | PRESSURE | 0.2500000000E+05 | PA | |
| 175 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 176 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 177 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 178 | WIND SPEED | 0.1700000000E+02 | M/S | |
| 179 | PRESSURE | | MISSING PA | |
| 180 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 181 | GEOPOTENTIAL | 0.1029700000E+06 | M**2/S**2 | |
| 182 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 183 | WIND SPEED | 0.1700000000E+02 | M/S | |
| 184 | PRESSURE | | MISSING PA | |
| 185 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 186 | GEOPOTENTIAL | 0.1059100000E+06 | M**2/S**2 | |
| 187 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |

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|-----|-----------------|------------------|-------------------|------|
| 188 | WIND SPEED | 0.1600000000E+02 | M/S | |
| 189 | PRESSURE | | MISSING PA | |
| 190 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 191 | GEOPOTENTIAL | 0.1088500000E+06 | M**2/S**2 | |
| 192 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 193 | WIND SPEED | 0.1800000000E+02 | M/S | |
| 194 | PRESSURE | | MISSING PA | |
| 195 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 196 | GEOPOTENTIAL | 0.1118000000E+06 | M**2/S**2 | |
| 197 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 198 | WIND SPEED | 0.2000000000E+02 | M/S | |
| 199 | PRESSURE | | MISSING PA | |
| 200 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 201 | GEOPOTENTIAL | 0.1147400000E+06 | M**2/S**2 | |
| 202 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 203 | WIND SPEED | 0.1900000000E+02 | M/S | |
| 204 | PRESSURE | 0.2000000000E+05 | PA | |
| 205 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 206 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 207 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 208 | WIND SPEED | 0.1700000000E+02 | M/S | |
| 209 | PRESSURE | | MISSING PA | |
| 210 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 211 | GEOPOTENTIAL | 0.1176800000E+06 | M**2/S**2 | |
| 212 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 213 | WIND SPEED | 0.1700000000E+02 | M/S | |
| 214 | PRESSURE | | MISSING PA | |
| 215 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 216 | GEOPOTENTIAL | 0.1206200000E+06 | M**2/S**2 | |
| 217 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 218 | WIND SPEED | 0.1900000000E+02 | M/S | |
| 219 | PRESSURE | | MISSING PA | |
| 220 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 221 | GEOPOTENTIAL | 0.1235600000E+06 | M**2/S**2 | |
| 222 | WIND DIRECTION | 0.3100000000E+03 | DEGREE TRUE | |
| 223 | WIND SPEED | 0.1600000000E+02 | M/S | |
| 224 | PRESSURE | | MISSING PA | |
| 225 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 226 | GEOPOTENTIAL | 0.1265100000E+06 | M**2/S**2 | |
| 227 | WIND DIRECTION | 0.3050000000E+03 | DEGREE TRUE | |
| 228 | WIND SPEED | 0.1900000000E+02 | M/S | |
| 229 | PRESSURE | | MISSING PA | |
| 230 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 231 | GEOPOTENTIAL | 0.1294500000E+06 | M**2/S**2 | |
| 232 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 233 | WIND SPEED | 0.2300000000E+02 | M/S | |
| 234 | PRESSURE | | MISSING PA | |
| 235 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 236 | GEOPOTENTIAL | 0.1323900000E+06 | M**2/S**2 | |
| 237 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 238 | WIND SPEED | 0.2300000000E+02 | M/S | |
| 239 | PRESSURE | 0.1500000000E+05 | PA | |
| 240 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 241 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 242 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 243 | WIND SPEED | 0.2300000000E+02 | M/S | |
| 244 | PRESSURE | | MISSING PA | |
| 245 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 246 | GEOPOTENTIAL | 0.1353300000E+06 | M**2/S**2 | |
| 247 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 248 | WIND SPEED | 0.2300000000E+02 | M/S | |
| 249 | PRESSURE | | MISSING PA | |
| 250 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 251 | GEOPOTENTIAL | 0.1382700000E+06 | M**2/S**2 | |
| 252 | WIND DIRECTION | 0.2900000000E+03 | DEGREE TRUE | |
| 253 | WIND SPEED | 0.2300000000E+02 | M/S | |
| 254 | PRESSURE | | MISSING PA | |
| 255 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 256 | GEOPOTENTIAL | 0.1412200000E+06 | M**2/S**2 | |
| 257 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 258 | WIND SPEED | 0.2300000000E+02 | M/S | |
| 259 | PRESSURE | | MISSING PA | |
| 260 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 261 | GEOPOTENTIAL | 0.1441600000E+06 | M**2/S**2 | |
| 262 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 263 | WIND SPEED | 0.2500000000E+02 | M/S | |
| 264 | PRESSURE | | MISSING PA | |
| 265 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 266 | GEOPOTENTIAL | 0.1471000000E+06 | M**2/S**2 | |
| 267 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 268 | WIND SPEED | 0.2000000000E+02 | M/S | |
| 269 | PRESSURE | | MISSING PA | |
| 270 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 271 | GEOPOTENTIAL | 0.1500400000E+06 | M**2/S**2 | |
| 272 | WIND DIRECTION | 0.3050000000E+03 | DEGREE TRUE | |
| 273 | WIND SPEED | 0.2000000000E+02 | M/S | |
| 274 | PRESSURE | | MISSING PA | |
| 275 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 276 | GEOPOTENTIAL | 0.1529800000E+06 | M**2/S**2 | |
| 277 | WIND DIRECTION | 0.3100000000E+03 | DEGREE TRUE | |
| 278 | WIND SPEED | 0.2000000000E+02 | M/S | |
| 279 | PRESSURE | | MISSING PA | |
| 280 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |

| | | | | |
|-----|-----------------|------------------|-------------|------|
| 281 | GEOPOTENTIAL | 0.1559300000E+06 | M**2/S**2 | |
| 282 | WIND DIRECTION | 0.3150000000E+03 | DEGREE TRUE | |
| 283 | WIND SPEED | 0.1900000000E+02 | M/S | |
| 284 | PRESSURE | 0.1000000000E+05 | PA | |
| 285 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 286 | GEOPOTENTIAL | MISSING | M**2/S**2 | |
| 287 | WIND DIRECTION | 0.3150000000E+03 | DEGREE TRUE | |
| 288 | WIND SPEED | 0.1900000000E+02 | M/S | |
| 289 | PRESSURE | MISSING | PA | |
| 290 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 291 | GEOPOTENTIAL | 0.1588700000E+06 | M**2/S**2 | |
| 292 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 293 | WIND SPEED | 0.1600000000E+02 | M/S | |
| 294 | PRESSURE | MISSING | PA | |
| 295 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 296 | GEOPOTENTIAL | 0.1618100000E+06 | M**2/S**2 | |
| 297 | WIND DIRECTION | 0.2800000000E+03 | DEGREE TRUE | |
| 298 | WIND SPEED | 0.1500000000E+02 | M/S | |
| 299 | PRESSURE | MISSING | PA | |
| 300 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 301 | GEOPOTENTIAL | 0.1647500000E+06 | M**2/S**2 | |
| 302 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 303 | WIND SPEED | 0.1600000000E+02 | M/S | |
| 304 | PRESSURE | MISSING | PA | |
| 305 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 306 | GEOPOTENTIAL | 0.1676900000E+06 | M**2/S**2 | |
| 307 | WIND DIRECTION | 0.2950000000E+03 | DEGREE TRUE | |
| 308 | WIND SPEED | 0.1600000000E+02 | M/S | |
| 309 | PRESSURE | MISSING | PA | |
| 310 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 311 | GEOPOTENTIAL | 0.1706400000E+06 | M**2/S**2 | |
| 312 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 313 | WIND SPEED | 0.1500000000E+02 | M/S | |
| 314 | PRESSURE | MISSING | PA | |
| 315 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 316 | GEOPOTENTIAL | 0.1735800000E+06 | M**2/S**2 | |
| 317 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 318 | WIND SPEED | 0.1600000000E+02 | M/S | |
| 319 | PRESSURE | MISSING | PA | |
| 320 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 321 | GEOPOTENTIAL | 0.1765200000E+06 | M**2/S**2 | |
| 322 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 323 | WIND SPEED | 0.2200000000E+02 | M/S | |
| 324 | PRESSURE | MISSING | PA | |
| 325 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 326 | GEOPOTENTIAL | 0.1794600000E+06 | M**2/S**2 | |
| 327 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 328 | WIND SPEED | 0.2500000000E+02 | M/S | |
| 329 | PRESSURE | 0.7000000000E+04 | PA | |
| 330 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 331 | GEOPOTENTIAL | MISSING | M**2/S**2 | |
| 332 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 333 | WIND SPEED | 0.2500000000E+02 | M/S | |
| 334 | PRESSURE | MISSING | PA | |
| 335 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 336 | GEOPOTENTIAL | 0.1824000000E+06 | M**2/S**2 | |
| 337 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 338 | WIND SPEED | 0.2200000000E+02 | M/S | |
| 339 | PRESSURE | MISSING | PA | |
| 340 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 341 | GEOPOTENTIAL | 0.1853500000E+06 | M**2/S**2 | |
| 342 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 343 | WIND SPEED | 0.2500000000E+02 | M/S | |
| 344 | PRESSURE | MISSING | PA | |
| 345 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 346 | GEOPOTENTIAL | 0.1882900000E+06 | M**2/S**2 | |
| 347 | WIND DIRECTION | 0.2850000000E+03 | DEGREE TRUE | |
| 348 | WIND SPEED | 0.2300000000E+02 | M/S | |
| 349 | PRESSURE | MISSING | PA | |
| 350 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 351 | GEOPOTENTIAL | 0.2059400000E+06 | M**2/S**2 | |
| 352 | WIND DIRECTION | 0.2550000000E+03 | DEGREE TRUE | |
| 353 | WIND SPEED | 0.2000000000E+01 | M/S | |
| 354 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 355 | EXTENDED DELAYE | 0.3530000000E+03 | NUMERIC | |
| 356 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 357 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 358 | DATA PRESENT IN | MISSING | NUMERIC | |
| 359 | DATA PRESENT IN | MISSING | NUMERIC | |
| 360 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 361 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 362 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 363 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 364 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 365 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 366 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 367 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 368 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 369 | DATA PRESENT IN | MISSING | NUMERIC | |
| 370 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 371 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 372 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 373 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |


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653 DATA PRESENT IN 0.0000000000E+00 NUMERIC
654 DATA PRESENT IN MISSING NUMERIC
655 DATA PRESENT IN 0.0000000000E+00 NUMERIC
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706 DATA PRESENT IN 0.0000000000E+00 NUMERIC
707 DATA PRESENT IN 0.0000000000E+00 NUMERIC
708 DATA PRESENT IN 0.0000000000E+00 NUMERIC
709 IDENTIFICATION 0.9800000000E+02 CODE TABLE 1031
710 GENERATING APPL 0.1000000000E+01 CODE TABLE 1032
711 EXTENDED DELAYE 0.2830000000E+03 NUMERIC
712 % CONFIDENCE 0.7000000000E+02 NUMERIC
713 % CONFIDENCE 0.7000000000E+02 NUMERIC
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744 % CONFIDENCE 0.7500000000E+02 NUMERIC
745 % CONFIDENCE 0.7000000000E+02 NUMERIC
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932 % CONFIDENCE 0.7500000000E+02 NUMERIC
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3.22 Wind profiler (USA)

RDB type 4, subtype 95

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 750
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE               0
    ORIGINATING CENTRE                   98
    UPDATE SEQUENCE NUMBER               0
    FLAG (PRESENCE OF SECTION 2)        128
    BUFR MESSAGE TYPE                    2
    BUFR MESSAGE SUBTYPE                 95
    VERSION NUMBER OF LOCAL TABLE       1
    YEAR                                  1
    MONTH                                 2
    DAY                                   1
    HOUR                                  10
    MINUTE                                0
    VERSION NUMBER OF MASTER TABLE      6
    BUFR MASTER TABLE                   0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                   52
    REPORT DATA BASE KEY
    RDB DATA TYPE                        4
    RDB DATA SUBTYPE                     95
    YEAR                                  2001
    MONTH                                 2
    DAY                                   1
    HOUR                                  10
    MINUTE                                0
    SECOND                                0
    LATITUDE 1                            40.08
    LONGITUDE 1                           -100.65
    IDENTIFIER                             74433
    TOTAL BUFR MESSAGE LENGTH             750
    DAY (RDB INSERTION)                   1
    HOUR (RDB INSERTION)                   10
    MINUTE (RDB INSERTION)                 24
    SECOND (RDB INSERTION)                 58
    DAY (MDB ARRIVAL)                     1
    HOUR (MDB ARRIVAL)                     10
    MINUTE (MDB ARRIVAL)                   20
    SECOND (MDB ARRIVAL)                    7
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        1
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    QUALITY CONTROL & CONF                 70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)           130
    RESERVED                               0
    NUMBER OF DATA SUBSETS                1
    FLAG (DATA TYPE/DATA COMPRESSION)     128

    DATA DESCRIPTORS (UNEXPANDED)
    1 001001
    2 001002
    3 005002

```

4 006002
5 007001
6 004001
7 004002
8 004003
9 004004
10 004005
11 008021
12 004025
13 011002
14 011001
15 010051
16 012001
17 013014
18 013003
19 025033
20 120036
21 007006
22 025032
23 025034
24 201116
25 008022
26 201000
27 011003
28 011004
29 201127
30 011050
31 201000
32 201116
33 008022
34 201000
35 201129
36 206008
37 021192
38 201000
39 011006
40 011051
41 120007
42 007006
43 025032
44 025034
45 201116
46 008022
47 201000
48 011003
49 011004
50 201127
51 011050
52 201000
53 201116
54 008022
55 201000
56 201129
57 206008
58 021192
59 201000
60 011006
61 011051

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 005002 LATITUDE (COARSE ACCURACY)
4 006002 LONGITUDE (COARSE ACCURACY)
5 007001 HEIGHT OF STATION
6 004001 YEAR
7 004002 MONTH
8 004003 DAY
9 004004 HOUR
10 004005 MINUTE
11 008021 TIME SIGNIFICANCE
12 004025 TIME PERIOD OR DISPLACEMENT
13 011002 WIND SPEED
14 011001 WIND DIRECTION
15 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
16 012001 TEMPERATURE/DRY BULB TEMPERATURE
17 013014 RAINFALL/WATER EQUIVALENT OF SNOW (AVERAGE RATE)
18 013003 RELATIVE HUMIDITY
19 025033 WIND PROFILER SUBMODE INFORMATION
20 007006 HEIGHT ABOVE STATION
21 025032 WIND PROFILER MODE INFORMATION
22 025034 WIND PROFILER QUALITY CONTROL TEST RESULTS
23 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
24 011003 U-COMPONENT
25 011004 V-COMPONENT
26 011050 STANDARD DEVIATION OF HORIZONTAL WIND SPEED
27 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
28 021192 UNKNOWN
29 011006 W-COMPONENT
30 011051 STANDARD DEVIATION OF VERTICAL WIND SPEED
31 007006 HEIGHT ABOVE STATION


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32 025032 WIND PROFILER MODE INFORMATION
33 025034 WIND PROFILER QUALITY CONTROL TEST RESULTS
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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1
1 WMO BLOCK NUMBE      0.7400000000E+02 NUMERIC

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|----|-----------------|-------------------|---------------------|-------|
| 2 | WMO STATION NUM | 0.4330000000E+03 | NUMERIC | |
| 3 | LATITUDE (COARS | 0.4008000000E+02 | DEGREE | |
| 4 | LONGITUDE (COAR | -0.1006500000E+03 | DEGREE | |
| 5 | HEIGHT OF STATI | 0.8000000000E+03 | M | |
| 6 | YEAR | 0.2001000000E+04 | YEAR | |
| 7 | MONTH | 0.2000000000E+01 | MONTH | |
| 8 | DAY | 0.1000000000E+01 | DAY | |
| 9 | HOUR | 0.1000000000E+02 | HOUR | |
| 10 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 11 | TIME SIGNIFICAN | 0.2000000000E+01 | CODE TABLE | 8021 |
| 12 | TIME PERIOD OR | -0.6000000000E+02 | MINUTE | |
| 13 | WIND SPEED | | MISSING M/S | |
| 14 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 15 | PRESSURE REDUCE | 0.1022900000E+06 | PA | |
| 16 | TEMPERATURE/DRY | 0.2684000000E+03 | K | |
| 17 | RAINFALL/WATER | | MISSING KG/(M**2)S | |
| 18 | RELATIVE HUMIDI | 0.7800000000E+02 | % | |
| 19 | WIND PROFILER S | 0.0000000000E+00 | CODE TABLE | 25033 |
| 20 | HEIGHT ABOVE ST | 0.5000000000E+03 | M | |
| 21 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 22 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 23 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 24 | U-COMPONENT | 0.2400000000E+01 | M/S | |
| 25 | V-COMPONENT | -0.9200000000E+01 | M/S | |
| 26 | STANDARD DEVIAT | 0.2400000000E+01 | M/S | |
| 27 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 28 | UNKNOWN | 0.5000000000E+02 | UNKNOWN | |
| 29 | W-COMPONENT | 0.8000000000E-01 | M/S | |
| 30 | STANDARD DEVIAT | 0.3000000000E+00 | M/S | |
| 31 | HEIGHT ABOVE ST | 0.7500000000E+03 | M | |
| 32 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 33 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 34 | TOTAL NUMBER(WI | 0.7000000000E+01 | NUMERIC | |
| 35 | U-COMPONENT | 0.4900000000E+01 | M/S | |
| 36 | V-COMPONENT | -0.1140000000E+02 | M/S | |
| 37 | STANDARD DEVIAT | 0.4000000000E+01 | M/S | |
| 38 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 39 | UNKNOWN | 0.6100000000E+02 | UNKNOWN | |
| 40 | W-COMPONENT | 0.2000000000E-01 | M/S | |
| 41 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | |
| 42 | HEIGHT ABOVE ST | 0.1000000000E+04 | M | |
| 43 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 44 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 45 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 46 | U-COMPONENT | 0.7800000000E+01 | M/S | |
| 47 | V-COMPONENT | -0.1040000000E+02 | M/S | |
| 48 | STANDARD DEVIAT | 0.6400000000E+01 | M/S | |
| 49 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 50 | UNKNOWN | 0.6900000000E+02 | UNKNOWN | |
| 51 | W-COMPONENT | 0.1000000000E-01 | M/S | |
| 52 | STANDARD DEVIAT | 0.5000000000E+00 | M/S | |
| 53 | HEIGHT ABOVE ST | 0.1250000000E+04 | M | |
| 54 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 55 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 56 | TOTAL NUMBER(WI | 0.7000000000E+01 | NUMERIC | |
| 57 | U-COMPONENT | 0.1020000000E+02 | M/S | |
| 58 | V-COMPONENT | -0.6700000000E+01 | M/S | |
| 59 | STANDARD DEVIAT | 0.6800000000E+01 | M/S | |
| 60 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 61 | UNKNOWN | 0.7000000000E+02 | UNKNOWN | |
| 62 | W-COMPONENT | 0.0000000000E+00 | M/S | |
| 63 | STANDARD DEVIAT | 0.5000000000E+00 | M/S | |
| 64 | HEIGHT ABOVE ST | 0.1500000000E+04 | M | |
| 65 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 66 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 67 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 68 | U-COMPONENT | 0.1100000000E+02 | M/S | |
| 69 | V-COMPONENT | -0.4000000000E+01 | M/S | |
| 70 | STANDARD DEVIAT | 0.6000000000E+01 | M/S | |
| 71 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 72 | UNKNOWN | 0.6800000000E+02 | UNKNOWN | |
| 73 | W-COMPONENT | 0.4000000000E-01 | M/S | |
| 74 | STANDARD DEVIAT | 0.5000000000E+00 | M/S | |
| 75 | HEIGHT ABOVE ST | 0.1750000000E+04 | M | |
| 76 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 77 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 78 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 79 | U-COMPONENT | 0.1200000000E+02 | M/S | |
| 80 | V-COMPONENT | -0.5000000000E+01 | M/S | |
| 81 | STANDARD DEVIAT | 0.5000000000E+01 | M/S | |
| 82 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 83 | UNKNOWN | 0.6400000000E+02 | UNKNOWN | |
| 84 | W-COMPONENT | -0.2000000000E-01 | M/S | |
| 85 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | |
| 86 | HEIGHT ABOVE ST | 0.2000000000E+04 | M | |
| 87 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 88 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 89 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 90 | U-COMPONENT | 0.1530000000E+02 | M/S | |
| 91 | V-COMPONENT | -0.5700000000E+01 | M/S | |
| 92 | STANDARD DEVIAT | 0.2300000000E+01 | M/S | |
| 93 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | |
| 94 | UNKNOWN | 0.6200000000E+02 | UNKNOWN | |

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|-----|-----------------|-------------------|------------|-------|--|
| 95 | W-COMPONENT | -0.4000000000E-01 | M/S | | |
| 96 | STANDARD DEVIAT | 0.3000000000E+00 | M/S | | |
| 97 | HEIGHT ABOVE ST | 0.2250000000E+04 | M | | |
| 98 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 99 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 100 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 101 | U-COMPONENT | 0.1730000000E+02 | M/S | | |
| 102 | V-COMPONENT | -0.5800000000E+01 | M/S | | |
| 103 | STANDARD DEVIAT | 0.1700000000E+01 | M/S | | |
| 104 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 105 | UNKNOWN | 0.6200000000E+02 | UNKNOWN | | |
| 106 | W-COMPONENT | -0.3000000000E-01 | M/S | | |
| 107 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 108 | HEIGHT ABOVE ST | 0.2500000000E+04 | M | | |
| 109 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 110 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 111 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 112 | U-COMPONENT | 0.1620000000E+02 | M/S | | |
| 113 | V-COMPONENT | -0.6700000000E+01 | M/S | | |
| 114 | STANDARD DEVIAT | 0.1900000000E+01 | M/S | | |
| 115 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 116 | UNKNOWN | 0.6300000000E+02 | UNKNOWN | | |
| 117 | W-COMPONENT | -0.5000000000E-01 | M/S | | |
| 118 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 119 | HEIGHT ABOVE ST | 0.2750000000E+04 | M | | |
| 120 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 121 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 122 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 123 | U-COMPONENT | 0.1460000000E+02 | M/S | | |
| 124 | V-COMPONENT | -0.7200000000E+01 | M/S | | |
| 125 | STANDARD DEVIAT | 0.1300000000E+01 | M/S | | |
| 126 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 127 | UNKNOWN | 0.6200000000E+02 | UNKNOWN | | |
| 128 | W-COMPONENT | -0.3000000000E-01 | M/S | | |
| 129 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 130 | HEIGHT ABOVE ST | 0.3000000000E+04 | M | | |
| 131 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 132 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 133 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 134 | U-COMPONENT | 0.1280000000E+02 | M/S | | |
| 135 | V-COMPONENT | -0.6500000000E+01 | M/S | | |
| 136 | STANDARD DEVIAT | 0.1400000000E+01 | M/S | | |
| 137 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 138 | UNKNOWN | 0.6000000000E+02 | UNKNOWN | | |
| 139 | W-COMPONENT | -0.4000000000E-01 | M/S | | |
| 140 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 141 | HEIGHT ABOVE ST | 0.3250000000E+04 | M | | |
| 142 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 143 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 144 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 145 | U-COMPONENT | 0.1250000000E+02 | M/S | | |
| 146 | V-COMPONENT | -0.6500000000E+01 | M/S | | |
| 147 | STANDARD DEVIAT | 0.1000000000E+01 | M/S | | |
| 148 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 149 | UNKNOWN | 0.6100000000E+02 | UNKNOWN | | |
| 150 | W-COMPONENT | -0.1000000000E-01 | M/S | | |
| 151 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 152 | HEIGHT ABOVE ST | 0.3500000000E+04 | M | | |
| 153 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 154 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 155 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 156 | U-COMPONENT | 0.1280000000E+02 | M/S | | |
| 157 | V-COMPONENT | -0.7500000000E+01 | M/S | | |
| 158 | STANDARD DEVIAT | 0.1000000000E+01 | M/S | | |
| 159 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 160 | UNKNOWN | 0.6000000000E+02 | UNKNOWN | | |
| 161 | W-COMPONENT | 0.8000000000E-01 | M/S | | |
| 162 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 163 | HEIGHT ABOVE ST | 0.3750000000E+04 | M | | |
| 164 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 165 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 166 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 167 | U-COMPONENT | 0.1390000000E+02 | M/S | | |
| 168 | V-COMPONENT | -0.7800000000E+01 | M/S | | |
| 169 | STANDARD DEVIAT | 0.1200000000E+01 | M/S | | |
| 170 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 171 | UNKNOWN | 0.5900000000E+02 | UNKNOWN | | |
| 172 | W-COMPONENT | 0.1200000000E+00 | M/S | | |
| 173 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 174 | HEIGHT ABOVE ST | 0.4000000000E+04 | M | | |
| 175 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 176 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |
| 177 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 178 | U-COMPONENT | 0.1510000000E+02 | M/S | | |
| 179 | V-COMPONENT | -0.7400000000E+01 | M/S | | |
| 180 | STANDARD DEVIAT | 0.1500000000E+01 | M/S | | |
| 181 | TOTAL NUMBER(WI | 0.8000000000E+01 | NUMERIC | | |
| 182 | UNKNOWN | 0.5600000000E+02 | UNKNOWN | | |
| 183 | W-COMPONENT | 0.1500000000E+00 | M/S | | |
| 184 | STANDARD DEVIAT | 0.4000000000E+00 | M/S | | |
| 185 | HEIGHT ABOVE ST | 0.4250000000E+04 | M | | |
| 186 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 | |
| 187 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 | |

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|-----|------------------|-------------------|------------|-------|
| 188 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 189 | U-COMPONENT | 0.1700000000E+02 | M/S | |
| 190 | V-COMPONENT | -0.7100000000E+01 | M/S | |
| 191 | STANDARD DEVIAT | 0.2000000000E+01 | M/S | |
| 192 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 193 | UNKNOWN | 0.5400000000E+02 | UNKNOWN | |
| 194 | W-COMPONENT | 0.2300000000E+00 | M/S | |
| 195 | STANDARD DEVIAT | 0.5000000000E+00 | M/S | |
| 196 | HEIGHT ABOVE ST | 0.4500000000E+04 | M | |
| 197 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 198 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 199 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 200 | U-COMPONENT | 0.1880000000E+02 | M/S | |
| 201 | V-COMPONENT | -0.6600000000E+01 | M/S | |
| 202 | STANDARD DEVIAT | 0.1900000000E+01 | M/S | |
| 203 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 204 | UNKNOWN | 0.5200000000E+02 | UNKNOWN | |
| 205 | W-COMPONENT | 0.2700000000E+00 | M/S | |
| 206 | STANDARD DEVIAT | 0.5000000000E+00 | M/S | |
| 207 | HEIGHT ABOVE ST | 0.4750000000E+04 | M | |
| 208 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 209 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 210 | TOTAL NUMBER (WI | 0.6000000000E+01 | NUMERIC | |
| 211 | U-COMPONENT | 0.1880000000E+02 | M/S | |
| 212 | V-COMPONENT | -0.5800000000E+01 | M/S | |
| 213 | STANDARD DEVIAT | 0.2300000000E+01 | M/S | |
| 214 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 215 | UNKNOWN | 0.5100000000E+02 | UNKNOWN | |
| 216 | W-COMPONENT | 0.4000000000E-01 | M/S | |
| 217 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 218 | HEIGHT ABOVE ST | 0.5000000000E+04 | M | |
| 219 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 220 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 221 | TOTAL NUMBER (WI | 0.5000000000E+01 | NUMERIC | |
| 222 | U-COMPONENT | 0.2310000000E+02 | M/S | |
| 223 | V-COMPONENT | -0.6200000000E+01 | M/S | |
| 224 | STANDARD DEVIAT | 0.1500000000E+01 | M/S | |
| 225 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 226 | UNKNOWN | 0.5400000000E+02 | UNKNOWN | |
| 227 | W-COMPONENT | 0.2000000000E-01 | M/S | |
| 228 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 229 | HEIGHT ABOVE ST | 0.5250000000E+04 | M | |
| 230 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 231 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 232 | TOTAL NUMBER (WI | 0.6000000000E+01 | NUMERIC | |
| 233 | U-COMPONENT | 0.2380000000E+02 | M/S | |
| 234 | V-COMPONENT | -0.5300000000E+01 | M/S | |
| 235 | STANDARD DEVIAT | 0.2300000000E+01 | M/S | |
| 236 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 237 | UNKNOWN | 0.5200000000E+02 | UNKNOWN | |
| 238 | W-COMPONENT | 0.9000000000E-01 | M/S | |
| 239 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 240 | HEIGHT ABOVE ST | 0.5500000000E+04 | M | |
| 241 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 242 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 243 | TOTAL NUMBER (WI | 0.6000000000E+01 | NUMERIC | |
| 244 | U-COMPONENT | 0.2570000000E+02 | M/S | |
| 245 | V-COMPONENT | -0.6700000000E+01 | M/S | |
| 246 | STANDARD DEVIAT | 0.1900000000E+01 | M/S | |
| 247 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 248 | UNKNOWN | 0.4900000000E+02 | UNKNOWN | |
| 249 | W-COMPONENT | 0.1200000000E+00 | M/S | |
| 250 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 251 | HEIGHT ABOVE ST | 0.5750000000E+04 | M | |
| 252 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 253 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 254 | TOTAL NUMBER (WI | 0.7000000000E+01 | NUMERIC | |
| 255 | U-COMPONENT | 0.2630000000E+02 | M/S | |
| 256 | V-COMPONENT | -0.4700000000E+01 | M/S | |
| 257 | STANDARD DEVIAT | 0.2000000000E+01 | M/S | |
| 258 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 259 | UNKNOWN | 0.4300000000E+02 | UNKNOWN | |
| 260 | W-COMPONENT | 0.2100000000E+00 | M/S | |
| 261 | STANDARD DEVIAT | 0.7000000000E+00 | M/S | |
| 262 | HEIGHT ABOVE ST | 0.6000000000E+04 | M | |
| 263 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 264 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 265 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 266 | U-COMPONENT | 0.2710000000E+02 | M/S | |
| 267 | V-COMPONENT | -0.2600000000E+01 | M/S | |
| 268 | STANDARD DEVIAT | 0.2000000000E+01 | M/S | |
| 269 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 270 | UNKNOWN | 0.4400000000E+02 | UNKNOWN | |
| 271 | W-COMPONENT | 0.1800000000E+00 | M/S | |
| 272 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 273 | HEIGHT ABOVE ST | 0.6250000000E+04 | M | |
| 274 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 275 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 276 | TOTAL NUMBER (WI | 0.7000000000E+01 | NUMERIC | |
| 277 | U-COMPONENT | 0.2740000000E+02 | M/S | |
| 278 | V-COMPONENT | -0.7000000000E+01 | M/S | |
| 279 | STANDARD DEVIAT | 0.2200000000E+01 | M/S | |
| 280 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |

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|-----|------------------|-------------------|------------|-------|
| 281 | UNKNOWN | 0.4300000000E+02 | UNKNOWN | |
| 282 | W-COMPONENT | 0.2100000000E+00 | M/S | |
| 283 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 284 | HEIGHT ABOVE ST | 0.6500000000E+04 | M | |
| 285 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 286 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 287 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 288 | U-COMPONENT | 0.2680000000E+02 | M/S | |
| 289 | V-COMPONENT | 0.2800000000E+01 | M/S | |
| 290 | STANDARD DEVIAT | 0.1700000000E+01 | M/S | |
| 291 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 292 | UNKNOWN | 0.4300000000E+02 | UNKNOWN | |
| 293 | W-COMPONENT | 0.2500000000E+00 | M/S | |
| 294 | STANDARD DEVIAT | 0.7000000000E+00 | M/S | |
| 295 | HEIGHT ABOVE ST | 0.6750000000E+04 | M | |
| 296 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 297 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 298 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 299 | U-COMPONENT | 0.2690000000E+02 | M/S | |
| 300 | V-COMPONENT | 0.5000000000E+01 | M/S | |
| 301 | STANDARD DEVIAT | 0.1900000000E+01 | M/S | |
| 302 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 303 | UNKNOWN | 0.4500000000E+02 | UNKNOWN | |
| 304 | W-COMPONENT | 0.2300000000E+00 | M/S | |
| 305 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 306 | HEIGHT ABOVE ST | 0.7000000000E+04 | M | |
| 307 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 308 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 309 | TOTAL NUMBER (WI | 0.7000000000E+01 | NUMERIC | |
| 310 | U-COMPONENT | 0.2640000000E+02 | M/S | |
| 311 | V-COMPONENT | 0.8800000000E+01 | M/S | |
| 312 | STANDARD DEVIAT | 0.2800000000E+01 | M/S | |
| 313 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 314 | UNKNOWN | 0.4400000000E+02 | UNKNOWN | |
| 315 | W-COMPONENT | 0.1000000000E-01 | M/S | |
| 316 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 317 | HEIGHT ABOVE ST | 0.7250000000E+04 | M | |
| 318 | WIND PROFILER M | 0.1000000000E+01 | CODE TABLE | 25032 |
| 319 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 320 | TOTAL NUMBER (WI | 0.7000000000E+01 | NUMERIC | |
| 321 | U-COMPONENT | 0.2690000000E+02 | M/S | |
| 322 | V-COMPONENT | 0.9500000000E+01 | M/S | |
| 323 | STANDARD DEVIAT | 0.2300000000E+01 | M/S | |
| 324 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 325 | UNKNOWN | 0.4100000000E+02 | UNKNOWN | |
| 326 | W-COMPONENT | 0.2000000000E-01 | M/S | |
| 327 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 328 | HEIGHT ABOVE ST | 0.7500000000E+04 | M | |
| 329 | WIND PROFILER M | 0.2000000000E+01 | CODE TABLE | 25032 |
| 330 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 331 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 332 | U-COMPONENT | 0.2710000000E+02 | M/S | |
| 333 | V-COMPONENT | 0.6000000000E+01 | M/S | |
| 334 | STANDARD DEVIAT | 0.3900000000E+01 | M/S | |
| 335 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 336 | UNKNOWN | 0.5300000000E+02 | UNKNOWN | |
| 337 | W-COMPONENT | 0.6000000000E-01 | M/S | |
| 338 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 339 | HEIGHT ABOVE ST | 0.7750000000E+04 | M | |
| 340 | WIND PROFILER M | 0.2000000000E+01 | CODE TABLE | 25032 |
| 341 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 342 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 343 | U-COMPONENT | 0.2640000000E+02 | M/S | |
| 344 | V-COMPONENT | 0.4100000000E+01 | M/S | |
| 345 | STANDARD DEVIAT | 0.4600000000E+01 | M/S | |
| 346 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 347 | UNKNOWN | 0.5300000000E+02 | UNKNOWN | |
| 348 | W-COMPONENT | 0.3000000000E-01 | M/S | |
| 349 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 350 | HEIGHT ABOVE ST | 0.8000000000E+04 | M | |
| 351 | WIND PROFILER M | 0.2000000000E+01 | CODE TABLE | 25032 |
| 352 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 353 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 354 | U-COMPONENT | 0.2510000000E+02 | M/S | |
| 355 | V-COMPONENT | 0.1800000000E+01 | M/S | |
| 356 | STANDARD DEVIAT | 0.4700000000E+01 | M/S | |
| 357 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 358 | UNKNOWN | 0.5300000000E+02 | UNKNOWN | |
| 359 | W-COMPONENT | 0.0000000000E+00 | M/S | |
| 360 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 361 | HEIGHT ABOVE ST | 0.8250000000E+04 | M | |
| 362 | WIND PROFILER M | 0.2000000000E+01 | CODE TABLE | 25032 |
| 363 | WIND PROFILER Q | 0.0000000000E+00 | FLAG TABLE | 25034 |
| 364 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 365 | U-COMPONENT | 0.2380000000E+02 | M/S | |
| 366 | V-COMPONENT | 0.1000000000E+00 | M/S | |
| 367 | STANDARD DEVIAT | 0.4300000000E+01 | M/S | |
| 368 | TOTAL NUMBER (WI | 0.8000000000E+01 | NUMERIC | |
| 369 | UNKNOWN | 0.5300000000E+02 | UNKNOWN | |
| 370 | W-COMPONENT | -0.3000000000E-01 | M/S | |
| 371 | STANDARD DEVIAT | 0.6000000000E+00 | M/S | |
| 372 | HEIGHT ABOVE ST | 0.8500000000E+04 | M | |
| 373 | WIND PROFILER M | 0.2000000000E+01 | CODE TABLE | 25032 |

| | | | | |
|-----|-----------------|------------------|------------|-------|
| 374 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 375 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 376 | U-COMPONENT | 0.226000000E+02 | M/S | |
| 377 | V-COMPONENT | -0.120000000E+01 | M/S | |
| 378 | STANDARD DEVIAT | 0.400000000E+01 | M/S | |
| 379 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 380 | UNKNOWN | 0.530000000E+02 | UNKNOWN | |
| 381 | W-COMPONENT | -0.700000000E-01 | M/S | |
| 382 | STANDARD DEVIAT | 0.500000000E+00 | M/S | |
| 383 | HEIGHT ABOVE ST | 0.875000000E+04 | M | |
| 384 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 385 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 386 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 387 | U-COMPONENT | 0.213000000E+02 | M/S | |
| 388 | V-COMPONENT | -0.240000000E+01 | M/S | |
| 389 | STANDARD DEVIAT | 0.410000000E+01 | M/S | |
| 390 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 391 | UNKNOWN | 0.530000000E+02 | UNKNOWN | |
| 392 | W-COMPONENT | -0.100000000E+00 | M/S | |
| 393 | STANDARD DEVIAT | 0.500000000E+00 | M/S | |
| 394 | HEIGHT ABOVE ST | 0.900000000E+04 | M | |
| 395 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 396 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 397 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 398 | U-COMPONENT | 0.200000000E+02 | M/S | |
| 399 | V-COMPONENT | -0.390000000E+01 | M/S | |
| 400 | STANDARD DEVIAT | 0.440000000E+01 | M/S | |
| 401 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 402 | UNKNOWN | 0.530000000E+02 | UNKNOWN | |
| 403 | W-COMPONENT | -0.140000000E+00 | M/S | |
| 404 | STANDARD DEVIAT | 0.500000000E+00 | M/S | |
| 405 | HEIGHT ABOVE ST | 0.925000000E+04 | M | |
| 406 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 407 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 408 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 409 | U-COMPONENT | 0.196000000E+02 | M/S | |
| 410 | V-COMPONENT | -0.450000000E+01 | M/S | |
| 411 | STANDARD DEVIAT | 0.390000000E+01 | M/S | |
| 412 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 413 | UNKNOWN | 0.520000000E+02 | UNKNOWN | |
| 414 | W-COMPONENT | -0.200000000E+00 | M/S | |
| 415 | STANDARD DEVIAT | 0.500000000E+00 | M/S | |
| 416 | HEIGHT ABOVE ST | 0.102500000E+05 | M | |
| 417 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 418 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 419 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 420 | U-COMPONENT | 0.206000000E+02 | M/S | |
| 421 | V-COMPONENT | -0.310000000E+01 | M/S | |
| 422 | STANDARD DEVIAT | 0.390000000E+01 | M/S | |
| 423 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 424 | UNKNOWN | 0.490000000E+02 | UNKNOWN | |
| 425 | W-COMPONENT | -0.190000000E+00 | M/S | |
| 426 | STANDARD DEVIAT | 0.500000000E+00 | M/S | |
| 427 | HEIGHT ABOVE ST | 0.112500000E+05 | M | |
| 428 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 429 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 430 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 431 | U-COMPONENT | 0.242000000E+02 | M/S | |
| 432 | V-COMPONENT | -0.360000000E+01 | M/S | |
| 433 | STANDARD DEVIAT | 0.410000000E+01 | M/S | |
| 434 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 435 | UNKNOWN | 0.460000000E+02 | UNKNOWN | |
| 436 | W-COMPONENT | 0.300000000E-01 | M/S | |
| 437 | STANDARD DEVIAT | 0.600000000E+00 | M/S | |
| 438 | HEIGHT ABOVE ST | 0.122500000E+05 | M | |
| 439 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 440 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 441 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 442 | U-COMPONENT | 0.196000000E+02 | M/S | |
| 443 | V-COMPONENT | -0.420000000E+01 | M/S | |
| 444 | STANDARD DEVIAT | 0.440000000E+01 | M/S | |
| 445 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 446 | UNKNOWN | 0.450000000E+02 | UNKNOWN | |
| 447 | W-COMPONENT | 0.800000000E-01 | M/S | |
| 448 | STANDARD DEVIAT | 0.500000000E+00 | M/S | |
| 449 | HEIGHT ABOVE ST | 0.132500000E+05 | M | |
| 450 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 451 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 452 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 453 | U-COMPONENT | 0.169000000E+02 | M/S | |
| 454 | V-COMPONENT | -0.260000000E+01 | M/S | |
| 455 | STANDARD DEVIAT | 0.380000000E+01 | M/S | |
| 456 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 457 | UNKNOWN | 0.430000000E+02 | UNKNOWN | |
| 458 | W-COMPONENT | 0.200000000E-01 | M/S | |
| 459 | STANDARD DEVIAT | 0.400000000E+00 | M/S | |
| 460 | HEIGHT ABOVE ST | 0.142500000E+05 | M | |
| 461 | WIND PROFILER M | 0.200000000E+01 | CODE TABLE | 25032 |
| 462 | WIND PROFILER Q | 0.000000000E+00 | FLAG TABLE | 25034 |
| 463 | TOTAL NUMBER(WI | 0.800000000E+01 | NUMERIC | |
| 464 | U-COMPONENT | 0.170000000E+02 | M/S | |
| 465 | V-COMPONENT | 0.160000000E+01 | M/S | |
| 466 | STANDARD DEVIAT | 0.370000000E+01 | M/S | |

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467 TOTAL NUMBER(WI) 0.8000000000E+01 NUMERIC
468 UNKNOWN 0.4100000000E+02 UNKNOWN
469 W-COMPONENT 0.4000000000E-01 M/S
470 STANDARD DEVIAT 0.5000000000E+00 M/S
471 HEIGHT ABOVE ST 0.1525000000E+05 M
472 WIND PROFILER M 0.2000000000E+01 CODE TABLE 25032
473 WIND PROFILER Q 0.0000000000E+00 FLAG TABLE 25034
474 TOTAL NUMBER(WI) 0.8000000000E+01 NUMERIC
475 U-COMPONENT 0.1390000000E+02 M/S
476 V-COMPONENT -0.1200000000E+01 M/S
477 STANDARD DEVIAT 0.3900000000E+01 M/S
478 TOTAL NUMBER(WI) 0.8000000000E+01 NUMERIC
479 UNKNOWN 0.4300000000E+02 UNKNOWN
480 W-COMPONENT 0.9000000000E-01 M/S
481 STANDARD DEVIAT 0.5000000000E+00 M/S
482 HEIGHT ABOVE ST 0.1625000000E+05 M
483 WIND PROFILER M 0.2000000000E+01 CODE TABLE 25032
484 WIND PROFILER Q 0.0000000000E+00 FLAG TABLE 25034
485 TOTAL NUMBER(WI) 0.7000000000E+01 NUMERIC
486 U-COMPONENT 0.1210000000E+02 M/S
487 V-COMPONENT -0.1100000000E+01 M/S
488 STANDARD DEVIAT 0.3800000000E+01 M/S
489 TOTAL NUMBER(WI) 0.8000000000E+01 NUMERIC
490 UNKNOWN 0.3900000000E+02 UNKNOWN
491 W-COMPONENT -0.3000000000E-01 M/S
492 STANDARD DEVIAT 0.5000000000E+00 M/S
```

3.23 Wind profiler (Europe)

RDB type 4, subtype 96

```

                                ECMWF
                                BUFR DECODING SOFTWARE VERSION - 6.1
                                25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 310
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE          0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER          0
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                2
BUFR MESSAGE SUBTYPE            96
VERSION NUMBER OF LOCAL TABLE  1
YEAR                             1
MONTH                             2
DAY                               1
HOUR                             9
MINUTE                           41
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   4
RDB DATA SUBTYPE                96
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             9
MINUTE                           14
SECOND                            0
LATITUDE 1                       52.21
LONGITUDE 1                      14.13
IDENTIFIER                       10394
TOTAL BUFR MESSAGE LENGTH        310
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             9
MINUTE (RDB INSERTION)          59
SECOND (RDB INSERTION)          50
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)              9
MINUTE (MDB ARRIVAL)            59
SECOND (MDB ARRIVAL)            19
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      74
RESERVED                          0
NUMBER OF DATA SUBSETS          1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

1  301032
2  002003
```

3 002101
 4 201130
 5 002106
 6 201000
 7 201132
 8 202130
 9 002121
 10 202000
 11 201000
 12 201133
 13 202129
 14 025001
 15 202000
 16 201000
 17 025020
 18 025021
 19 008021
 20 004025
 21 111000
 22 031001
 23 007007
 24 204001
 25 031021
 26 011001
 27 204000
 28 011002
 29 204001
 30 031021
 31 011006
 32 204000
 33 021030

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
 2 001002 WMO STATION NUMBER
 3 002001 TYPE OF STATION
 4 004001 YEAR
 5 004002 MONTH
 6 004003 DAY
 7 004004 HOUR
 8 004005 MINUTE
 9 005002 LATITUDE (COARSE ACCURACY)
 10 006002 LONGITUDE (COARSE ACCURACY)
 11 007001 HEIGHT OF STATION
 12 002003 TYPE OF MEASURING EQUIPMENT USED
 13 002101 TYPE OF ANTENNA
 14 002106 3-dB BEAMWIDTH
 15 002121 MEAN FREQUENCY
 16 025001 RANGE-GATE LENGTH
 17 025020 MEAN SPEED ESTIMATION
 18 025021 WIND COMPUTATION ENHANCEMENT
 19 008021 TIME SIGNIFICANCE
 20 004025 TIME PERIOD OR DISPLACEMENT
 21 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
 22 007007 HEIGHT
 23 031021 ASSOCIATED FIELD SIGNIFICANCE
 24 999999 ASSOCIATED FIELD
 25 011001 WIND DIRECTION
 26 011002 WIND SPEED
 27 031021 ASSOCIATED FIELD SIGNIFICANCE
 28 999999 ASSOCIATED FIELD
 29 011006 W-COMPONENT
 30 021030 SIGNAL TO NOISE RATIO
 31 007007 HEIGHT
 32 031021 ASSOCIATED FIELD SIGNIFICANCE
 33 999999 ASSOCIATED FIELD
 34 011001 WIND DIRECTION
 35 011002 WIND SPEED
 36 031021 ASSOCIATED FIELD SIGNIFICANCE
 37 999999 ASSOCIATED FIELD
 38 011006 W-COMPONENT
 39 021030 SIGNAL TO NOISE RATIO
 40 007007 HEIGHT
 41 031021 ASSOCIATED FIELD SIGNIFICANCE
 42 999999 ASSOCIATED FIELD
 43 011001 WIND DIRECTION
 44 011002 WIND SPEED
 45 031021 ASSOCIATED FIELD SIGNIFICANCE
 46 999999 ASSOCIATED FIELD
 47 011006 W-COMPONENT
 48 021030 SIGNAL TO NOISE RATIO
 49 007007 HEIGHT
 50 031021 ASSOCIATED FIELD SIGNIFICANCE
 51 999999 ASSOCIATED FIELD
 52 011001 WIND DIRECTION
 53 011002 WIND SPEED
 54 031021 ASSOCIATED FIELD SIGNIFICANCE
 55 999999 ASSOCIATED FIELD
 56 011006 W-COMPONENT
 57 021030 SIGNAL TO NOISE RATIO
 58 007007 HEIGHT

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59 031021 ASSOCIATED FIELD SIGNIFICANCE
60 999999 ASSOCIATED FIELD
61 011001 WIND DIRECTION
62 011002 WIND SPEED
63 031021 ASSOCIATED FIELD SIGNIFICANCE
64 999999 ASSOCIATED FIELD
65 011006 W-COMPONENT
66 021030 SIGNAL TO NOISE RATIO
67 007007 HEIGHT
68 031021 ASSOCIATED FIELD SIGNIFICANCE
69 999999 ASSOCIATED FIELD
70 011001 WIND DIRECTION
71 011002 WIND SPEED
72 031021 ASSOCIATED FIELD SIGNIFICANCE
73 999999 ASSOCIATED FIELD
74 011006 W-COMPONENT
75 021030 SIGNAL TO NOISE RATIO
76 007007 HEIGHT
77 031021 ASSOCIATED FIELD SIGNIFICANCE
78 999999 ASSOCIATED FIELD
79 011001 WIND DIRECTION
80 011002 WIND SPEED
81 031021 ASSOCIATED FIELD SIGNIFICANCE
82 999999 ASSOCIATED FIELD
83 011006 W-COMPONENT
84 021030 SIGNAL TO NOISE RATIO
85 007007 HEIGHT
86 031021 ASSOCIATED FIELD SIGNIFICANCE
87 999999 ASSOCIATED FIELD
88 011001 WIND DIRECTION
89 011002 WIND SPEED
90 031021 ASSOCIATED FIELD SIGNIFICANCE
91 999999 ASSOCIATED FIELD
92 011006 W-COMPONENT
93 021030 SIGNAL TO NOISE RATIO
94 007007 HEIGHT
95 031021 ASSOCIATED FIELD SIGNIFICANCE
96 999999 ASSOCIATED FIELD
97 011001 WIND DIRECTION
98 011002 WIND SPEED
99 031021 ASSOCIATED FIELD SIGNIFICANCE
100 999999 ASSOCIATED FIELD
101 011006 W-COMPONENT
102 021030 SIGNAL TO NOISE RATIO
103 007007 HEIGHT
104 031021 ASSOCIATED FIELD SIGNIFICANCE
105 999999 ASSOCIATED FIELD
106 011001 WIND DIRECTION
107 011002 WIND SPEED
108 031021 ASSOCIATED FIELD SIGNIFICANCE
109 999999 ASSOCIATED FIELD
110 011006 W-COMPONENT
111 021030 SIGNAL TO NOISE RATIO
112 007007 HEIGHT
113 031021 ASSOCIATED FIELD SIGNIFICANCE
114 999999 ASSOCIATED FIELD
115 011001 WIND DIRECTION
116 011002 WIND SPEED
117 031021 ASSOCIATED FIELD SIGNIFICANCE
118 999999 ASSOCIATED FIELD
119 011006 W-COMPONENT
120 021030 SIGNAL TO NOISE RATIO
121 007007 HEIGHT
122 031021 ASSOCIATED FIELD SIGNIFICANCE
123 999999 ASSOCIATED FIELD
124 011001 WIND DIRECTION
125 011002 WIND SPEED
126 031021 ASSOCIATED FIELD SIGNIFICANCE
127 999999 ASSOCIATED FIELD
128 011006 W-COMPONENT
129 021030 SIGNAL TO NOISE RATIO
130 007007 HEIGHT
131 031021 ASSOCIATED FIELD SIGNIFICANCE
132 999999 ASSOCIATED FIELD
133 011001 WIND DIRECTION
134 011002 WIND SPEED
135 031021 ASSOCIATED FIELD SIGNIFICANCE
136 999999 ASSOCIATED FIELD
137 011006 W-COMPONENT
138 021030 SIGNAL TO NOISE RATIO
139 007007 HEIGHT
140 031021 ASSOCIATED FIELD SIGNIFICANCE
141 999999 ASSOCIATED FIELD
142 011001 WIND DIRECTION
143 011002 WIND SPEED
144 031021 ASSOCIATED FIELD SIGNIFICANCE
145 999999 ASSOCIATED FIELD
146 011006 W-COMPONENT
147 021030 SIGNAL TO NOISE RATIO
```

```
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1
```

| | | | | |
|----|-----------------|-------------------|-------------|-------|
| 1 | WMO BLOCK NUMBE | 0.1000000000E+02 | NUMERIC | |
| 2 | WMO STATION NUM | 0.3940000000E+03 | NUMERIC | |
| 3 | TYPE OF STATION | 0.2000000000E+01 | CODE TABLE | 2001 |
| 4 | YEAR | 0.2001000000E+04 | YEAR | |
| 5 | MONTH | 0.2000000000E+01 | MONTH | |
| 6 | DAY | 0.1000000000E+01 | DAY | |
| 7 | HOUR | 0.9000000000E+01 | HOUR | |
| 8 | MINUTE | 0.1400000000E+02 | MINUTE | |
| 9 | LATITUDE (COARS | 0.5221000000E+02 | DEGREE | |
| 10 | LONGITUDE (COAR | 0.1413000000E+02 | DEGREE | |
| 11 | HEIGHT OF STATI | 0.1070000000E+03 | M | |
| 12 | TYPE OF MEASURI | 0.6000000000E+01 | CODE TABLE | 2003 |
| 13 | TYPE OF ANTENNA | 0.7000000000E+01 | CODE TABLE | 2101 |
| 14 | 3-GB BEAMWIDTH | 0.6000000000E+01 | DEGREE | |
| 15 | MEAN FREQUENCY | 0.1290000000E+10 | Hz | |
| 16 | RANGE-GATE LENG | 0.1050000000E+03 | M | |
| 17 | MEAN SPEED ESTI | 0.0000000000E+00 | CODE TABLE | 25020 |
| 18 | WIND COMPUTATIO | 0.2000000000E+01 | FLAG TABLE | 25021 |
| 19 | TIME SIGNIFICAN | 0.2000000000E+01 | CODE TABLE | 8021 |
| 20 | TIME PERIOD OR | 0.2900000000E+02 | MINUTE | |
| 21 | DELAYED DESCRIP | 0.1400000000E+02 | NUMERIC | |
| 22 | HEIGHT | 0.3310000000E+03 | M | |
| 23 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 24 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 25 | WIND DIRECTION | 0.2960000000E+03 | DEGREE TRUE | |
| 26 | WIND SPEED | 0.5300000000E+01 | M/S | |
| 27 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 28 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 29 | W-COMPONENT | 0.1000000000E+00 | M/S | |
| 30 | SIGNAL TO NOISE | -0.2000000000E+01 | dB | |
| 31 | HEIGHT | 0.4030000000E+03 | M | |
| 32 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 33 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 34 | WIND DIRECTION | 0.2980000000E+03 | DEGREE TRUE | |
| 35 | WIND SPEED | 0.5300000000E+01 | M/S | |
| 36 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 37 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 38 | W-COMPONENT | 0.2000000000E+00 | M/S | |
| 39 | SIGNAL TO NOISE | -0.5000000000E+01 | dB | |
| 40 | HEIGHT | 0.4760000000E+03 | M | |
| 41 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 42 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 43 | WIND DIRECTION | 0.3020000000E+03 | DEGREE TRUE | |
| 44 | WIND SPEED | 0.5100000000E+01 | M/S | |
| 45 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 46 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 47 | W-COMPONENT | 0.2000000000E+00 | M/S | |
| 48 | SIGNAL TO NOISE | -0.1100000000E+02 | dB | |
| 49 | HEIGHT | 0.5480000000E+03 | M | |
| 50 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 51 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 52 | WIND DIRECTION | 0.3070000000E+03 | DEGREE TRUE | |
| 53 | WIND SPEED | 0.4900000000E+01 | M/S | |
| 54 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 55 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 56 | W-COMPONENT | 0.2000000000E+00 | M/S | |
| 57 | SIGNAL TO NOISE | -0.1300000000E+02 | dB | |
| 58 | HEIGHT | 0.6200000000E+03 | M | |
| 59 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 60 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 61 | WIND DIRECTION | 0.3050000000E+03 | DEGREE TRUE | |
| 62 | WIND SPEED | 0.5400000000E+01 | M/S | |
| 63 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 64 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 65 | W-COMPONENT | 0.2000000000E+00 | M/S | |
| 66 | SIGNAL TO NOISE | -0.1200000000E+02 | dB | |
| 67 | HEIGHT | 0.6920000000E+03 | M | |
| 68 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 69 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 70 | WIND DIRECTION | 0.3090000000E+03 | DEGREE TRUE | |
| 71 | WIND SPEED | 0.5100000000E+01 | M/S | |
| 72 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 73 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 74 | W-COMPONENT | 0.2000000000E+00 | M/S | |
| 75 | SIGNAL TO NOISE | -0.1000000000E+02 | dB | |
| 76 | HEIGHT | 0.7650000000E+03 | M | |
| 77 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 78 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 79 | WIND DIRECTION | 0.3110000000E+03 | DEGREE TRUE | |
| 80 | WIND SPEED | 0.4800000000E+01 | M/S | |
| 81 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 82 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 83 | W-COMPONENT | 0.4000000000E+00 | M/S | |
| 84 | SIGNAL TO NOISE | -0.1000000000E+02 | dB | |
| 85 | HEIGHT | 0.8370000000E+03 | M | |
| 86 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 87 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 88 | WIND DIRECTION | 0.3180000000E+03 | DEGREE TRUE | |
| 89 | WIND SPEED | 0.3900000000E+01 | M/S | |
| 90 | ASSOCIATED FIEL | 0.1000000000E+01 | CODE TABLE | 31021 |
| 91 | ASSOCIATED FIEL | 0.0000000000E+00 | | |
| 92 | W-COMPONENT | 0.3000000000E+00 | M/S | |
| 93 | SIGNAL TO NOISE | -0.9000000000E+01 | dB | |

```
94 HEIGHT 0.9090000000E+03 M
95 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
96 ASSOCIATED FIEL 0.0000000000E+00
97 WIND DIRECTION 0.3190000000E+03 DEGREE TRUE
98 WIND SPEED 0.3400000000E+01 M/S
99 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
100 ASSOCIATED FIEL 0.0000000000E+00
101 W-COMPONENT 0.2000000000E+00 M/S
102 SIGNAL TO NOISE -0.8000000000E+01 dB
103 HEIGHT 0.9810000000E+03 M
104 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
105 ASSOCIATED FIEL 0.0000000000E+00
106 WIND DIRECTION 0.3240000000E+03 DEGREE TRUE
107 WIND SPEED 0.3100000000E+01 M/S
108 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
109 ASSOCIATED FIEL 0.0000000000E+00
110 W-COMPONENT 0.2000000000E+00 M/S
111 SIGNAL TO NOISE -0.9000000000E+01 dB
112 HEIGHT 0.1054000000E+04 M
113 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
114 ASSOCIATED FIEL 0.0000000000E+00
115 WIND DIRECTION 0.3290000000E+03 DEGREE TRUE
116 WIND SPEED 0.2800000000E+01 M/S
117 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
118 ASSOCIATED FIEL 0.0000000000E+00
119 W-COMPONENT 0.1000000000E+00 M/S
120 SIGNAL TO NOISE -0.1000000000E+02 dB
121 HEIGHT 0.1126000000E+04 M
122 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
123 ASSOCIATED FIEL 0.0000000000E+00
124 WIND DIRECTION 0.3350000000E+03 DEGREE TRUE
125 WIND SPEED 0.2500000000E+01 M/S
126 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
127 ASSOCIATED FIEL 0.0000000000E+00
128 W-COMPONENT 0.1000000000E+00 M/S
129 SIGNAL TO NOISE -0.9000000000E+01 dB
130 HEIGHT 0.1198000000E+04 M
131 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
132 ASSOCIATED FIEL 0.0000000000E+00
133 WIND DIRECTION 0.3430000000E+03 DEGREE TRUE
134 WIND SPEED 0.2100000000E+01 M/S
135 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
136 ASSOCIATED FIEL 0.0000000000E+00
137 W-COMPONENT 0.1000000000E+00 M/S
138 SIGNAL TO NOISE -0.8000000000E+01 dB
139 HEIGHT 0.1271000000E+04 M
140 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
141 ASSOCIATED FIEL 0.0000000000E+00
142 WIND DIRECTION 0.3250000000E+03 DEGREE TRUE
143 WIND SPEED 0.2400000000E+01 M/S
144 ASSOCIATED FIEL 0.1000000000E+01 CODE TABLE 31021
145 ASSOCIATED FIEL 0.0000000000E+00
146 W-COMPONENT 0.2000000000E+00 M/S
147 SIGNAL TO NOISE -0.9000000000E+01 dB
```


3.24 Temp land

RDB type 5, subtype 101

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601

BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 936
BUFR EDITION NUMBER              3

BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 2
BUFR MESSAGE SUBTYPE             101
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0

BUFR SECTION 2

LENGTH OF SECTION 2              52

REPORT DATA BASE KEY

RDB DATA TYPE                    5
RDB DATA SUBTYPE                 101
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             11
MINUTE                           0
SECOND                           0
LATITUDE 1                       -22.27
LONGITUDE 1                      166.45
IDENTIFIER                       91592
TOTAL BUFR MESSAGE LENGTH        936
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             11
MINUTE (RDB INSERTION)           48
SECOND (RDB INSERTION)           51
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               11
MINUTE (MDB ARRIVAL)             44
SECOND (MDB ARRIVAL)             53
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
QUALITY CONTROL % CONF           70

BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      28
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)

1 309007
2 222000
3 101000

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4 031002
5 031031
6 001031
7 001032
8 101000
9 031002
10 033007

DATA DESCRIPTORS (EXPANDED)

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 002011 RADIOSONDE TYPE
4 002012 RADIOSONDE COMPUTATIONAL METHOD
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005001 LATITUDE (HIGH ACCURACY)
11 006001 LONGITUDE (HIGH ACCURACY)
12 007001 HEIGHT OF STATION
13 020010 CLOUD COVER (TOTAL)
14 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
15 020011 CLOUD AMOUNT
16 020013 HEIGHT OF BASE OF CLOUD
17 020012 CLOUD TYPE
18 020012 CLOUD TYPE
19 020012 CLOUD TYPE
20 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
21 007004 PRESSURE
22 008001 VERTICAL SOUNDING SIGNIFICANCE
23 010003 GEOPOTENTIAL
24 012001 TEMPERATURE/DRY BULB TEMPERATURE
25 012003 DEW POINT TEMPERATURE
26 011001 WIND DIRECTION
27 011002 WIND SPEED
28 007004 PRESSURE
29 008001 VERTICAL SOUNDING SIGNIFICANCE
30 010003 GEOPOTENTIAL
31 012001 TEMPERATURE/DRY BULB TEMPERATURE
32 012003 DEW POINT TEMPERATURE
33 011001 WIND DIRECTION
34 011002 WIND SPEED
35 007004 PRESSURE
36 008001 VERTICAL SOUNDING SIGNIFICANCE
37 010003 GEOPOTENTIAL
38 012001 TEMPERATURE/DRY BULB TEMPERATURE
39 012003 DEW POINT TEMPERATURE
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268 010003 GEOPOTENTIAL

269 012001 TEMPERATURE/DRY BULB TEMPERATURE
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359 010003 GEOPOTENTIAL
360 012001 TEMPERATURE/DRY BULB TEMPERATURE
361 012003 DEW POINT TEMPERATURE

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362 011001 WIND DIRECTION
363 011002 WIND SPEED
364 222000 QUALITY INFORMATION FOLLOW
365 031002 EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR
366 031031 DATA PRESENT INDICATOR
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|---|-----------------|------------------|------------|------|
| 1 | WMO BLOCK NUMBE | 0.9100000000E+02 | NUMERIC | |
| 2 | WMO STATION NUM | 0.5920000000E+03 | NUMERIC | |
| 3 | RADIOSONDE TYPE | 0.6300000000E+02 | CODE TABLE | 2011 |
| 4 | RADIOSONDE COMP | 0.4000000000E+01 | CODE TABLE | 2012 |
| 5 | YEAR | 0.2001000000E+04 | YEAR | |

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|----|-----------------|-------------------|---------------------|-------|
| 6 | MONTH | 0.2000000000E+01 | MONTH | |
| 7 | DAY | 0.1000000000E+01 | DAY | |
| 8 | HOUR | 0.1100000000E+02 | HOUR | |
| 9 | MINUTE | 0.0000000000E+00 | MINUTE | |
| 10 | LATITUDE (HIGH | -0.2227000000E+02 | DEGREE | |
| 11 | LONGITUDE (HIGH | 0.1664500000E+03 | DEGREE | |
| 12 | HEIGHT OF STATI | 0.7200000000E+02 | M | |
| 13 | CLOUD COVER (TO | | MISSING % | |
| 14 | VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8002 |
| 15 | CLOUD AMOUNT | 0.2000000000E+01 | CODE TABLE | 20011 |
| 16 | HEIGHT OF BASE | 0.8000000000E+03 | M | |
| 17 | CLOUD TYPE | 0.3800000000E+02 | CODE TABLE | 20012 |
| 18 | CLOUD TYPE | 0.2300000000E+02 | CODE TABLE | 20012 |
| 19 | CLOUD TYPE | 0.1200000000E+02 | CODE TABLE | 20012 |
| 20 | DELAYED DESCRIP | 0.4900000000E+02 | NUMERIC | |
| 21 | PRESSURE | 0.1004000000E+06 | PA | |
| 22 | VERTICAL SOUNDI | 0.7000000000E+02 | FLAG TABLE | 8001 |
| 23 | GEOPOTENTIAL | 0.7100000000E+03 | M**2/S**2 | |
| 24 | TEMPERATURE/DRY | 0.3002000000E+03 | K | |
| 25 | DEW POINT TEMPE | 0.2969000000E+03 | K | |
| 26 | WIND DIRECTION | 0.9000000000E+02 | DEGREE TRUE | |
| 27 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 28 | PRESSURE | 0.1000000000E+06 | PA | |
| 29 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 30 | GEOPOTENTIAL | 0.8800000000E+03 | M**2/S**2 | |
| 31 | TEMPERATURE/DRY | 0.3000000000E+03 | K | |
| 32 | DEW POINT TEMPE | 0.2967000000E+03 | K | |
| 33 | WIND DIRECTION | 0.9000000000E+02 | DEGREE TRUE | |
| 34 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 35 | PRESSURE | 0.9250000000E+05 | PA | |
| 36 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 37 | GEOPOTENTIAL | 0.7610000000E+04 | M**2/S**2 | |
| 38 | TEMPERATURE/DRY | 0.2954000000E+03 | K | |
| 39 | DEW POINT TEMPE | 0.2931000000E+03 | K | |
| 40 | WIND DIRECTION | 0.7000000000E+02 | DEGREE TRUE | |
| 41 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 42 | PRESSURE | 0.8500000000E+05 | PA | |
| 43 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 44 | GEOPOTENTIAL | 0.1479000000E+05 | M**2/S**2 | |
| 45 | TEMPERATURE/DRY | 0.2906000000E+03 | K | |
| 46 | DEW POINT TEMPE | 0.2895000000E+03 | K | |
| 47 | WIND DIRECTION | 0.5000000000E+02 | DEGREE TRUE | |
| 48 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 49 | PRESSURE | 0.7900000000E+05 | PA | |
| 50 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 51 | GEOPOTENTIAL | 0.2108000000E+05 | M**2/S**2 | |
| 52 | TEMPERATURE/DRY | 0.2866000000E+03 | K | |
| 53 | DEW POINT TEMPE | 0.2863000000E+03 | K | |
| 54 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 55 | WIND SPEED | | MISSING M/S | |
| 56 | PRESSURE | 0.7560000000E+05 | PA | |
| 57 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 58 | GEOPOTENTIAL | 0.2471000000E+05 | M**2/S**2 | |
| 59 | TEMPERATURE/DRY | 0.2862000000E+03 | K | |
| 60 | DEW POINT TEMPE | 0.2813000000E+03 | K | |
| 61 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 62 | WIND SPEED | | MISSING M/S | |
| 63 | PRESSURE | 0.7440000000E+05 | PA | |
| 64 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 65 | GEOPOTENTIAL | 0.2603000000E+05 | M**2/S**2 | |
| 66 | TEMPERATURE/DRY | 0.2854000000E+03 | K | |
| 67 | DEW POINT TEMPE | 0.2784000000E+03 | K | |
| 68 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 69 | WIND SPEED | | MISSING M/S | |
| 70 | PRESSURE | 0.7000000000E+05 | PA | |
| 71 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 72 | GEOPOTENTIAL | 0.3085000000E+05 | M**2/S**2 | |
| 73 | TEMPERATURE/DRY | 0.2828000000E+03 | K | |
| 74 | DEW POINT TEMPE | 0.2778000000E+03 | K | |
| 75 | WIND DIRECTION | 0.3600000000E+03 | DEGREE TRUE | |
| 76 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 77 | PRESSURE | 0.6980000000E+05 | PA | |
| 78 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 79 | GEOPOTENTIAL | 0.3126000000E+05 | M**2/S**2 | |
| 80 | TEMPERATURE/DRY | 0.2828000000E+03 | K | |
| 81 | DEW POINT TEMPE | 0.2778000000E+03 | K | |
| 82 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 83 | WIND SPEED | | MISSING M/S | |
| 84 | PRESSURE | 0.6690000000E+05 | PA | |
| 85 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 86 | GEOPOTENTIAL | 0.3470000000E+05 | M**2/S**2 | |
| 87 | TEMPERATURE/DRY | 0.2810000000E+03 | K | |
| 88 | DEW POINT TEMPE | 0.2690000000E+03 | K | |
| 89 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 90 | WIND SPEED | | MISSING M/S | |
| 91 | PRESSURE | 0.6140000000E+05 | PA | |
| 92 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 93 | GEOPOTENTIAL | 0.4160000000E+05 | M**2/S**2 | |
| 94 | TEMPERATURE/DRY | 0.2772000000E+03 | K | |
| 95 | DEW POINT TEMPE | 0.2752000000E+03 | K | |
| 96 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 97 | WIND SPEED | | MISSING M/S | |
| 98 | PRESSURE | 0.5970000000E+05 | PA | |

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| 99 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 100 | GEOPOTENTIAL | 0.4384000000E+05 | M**2/S**2 | |
| 101 | TEMPERATURE/DRY | 0.2760000000E+03 | K | |
| 102 | DEW POINT TEMPE | 0.2650000000E+03 | K | |
| 103 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 104 | WIND SPEED | | MISSING M/S | |
| 105 | PRESSURE | 0.5740000000E+05 | PA | |
| 106 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 107 | GEOPOTENTIAL | 0.4694000000E+05 | M**2/S**2 | |
| 108 | TEMPERATURE/DRY | 0.2744000000E+03 | K | |
| 109 | DEW POINT TEMPE | 0.2644000000E+03 | K | |
| 110 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 111 | WIND SPEED | | MISSING M/S | |
| 112 | PRESSURE | 0.5590000000E+05 | PA | |
| 113 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 114 | GEOPOTENTIAL | 0.4903000000E+05 | M**2/S**2 | |
| 115 | TEMPERATURE/DRY | 0.2734000000E+03 | K | |
| 116 | DEW POINT TEMPE | 0.2454000000E+03 | K | |
| 117 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 118 | WIND SPEED | | MISSING M/S | |
| 119 | PRESSURE | 0.5470000000E+05 | PA | |
| 120 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 121 | GEOPOTENTIAL | 0.5073000000E+05 | M**2/S**2 | |
| 122 | TEMPERATURE/DRY | 0.2723000000E+03 | K | |
| 123 | DEW POINT TEMPE | 0.2593000000E+03 | K | |
| 124 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 125 | WIND SPEED | | MISSING M/S | |
| 126 | PRESSURE | 0.5330000000E+05 | PA | |
| 127 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 128 | GEOPOTENTIAL | 0.5275000000E+05 | M**2/S**2 | |
| 129 | TEMPERATURE/DRY | 0.2713000000E+03 | K | |
| 130 | DEW POINT TEMPE | 0.2483000000E+03 | K | |
| 131 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 132 | WIND SPEED | | MISSING M/S | |
| 133 | PRESSURE | 0.5000000000E+05 | PA | |
| 134 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 135 | GEOPOTENTIAL | 0.5757000000E+05 | M**2/S**2 | |
| 136 | TEMPERATURE/DRY | 0.2685000000E+03 | K | |
| 137 | DEW POINT TEMPE | 0.2445000000E+03 | K | |
| 138 | WIND DIRECTION | 0.2750000000E+03 | DEGREE TRUE | |
| 139 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 140 | PRESSURE | 0.4960000000E+05 | PA | |
| 141 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 142 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 143 | TEMPERATURE/DRY | | MISSING K | |
| 144 | DEW POINT TEMPE | | MISSING K | |
| 145 | WIND DIRECTION | 0.2700000000E+03 | DEGREE TRUE | |
| 146 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 147 | PRESSURE | 0.4920000000E+05 | PA | |
| 148 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 149 | GEOPOTENTIAL | 0.5895000000E+05 | M**2/S**2 | |
| 150 | TEMPERATURE/DRY | 0.2679000000E+03 | K | |
| 151 | DEW POINT TEMPE | 0.2439000000E+03 | K | |
| 152 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 153 | WIND SPEED | | MISSING M/S | |
| 154 | PRESSURE | 0.4770000000E+05 | PA | |
| 155 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 156 | GEOPOTENTIAL | 0.6132000000E+05 | M**2/S**2 | |
| 157 | TEMPERATURE/DRY | 0.2665000000E+03 | K | |
| 158 | DEW POINT TEMPE | 0.2535000000E+03 | K | |
| 159 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 160 | WIND SPEED | | MISSING M/S | |
| 161 | PRESSURE | 0.4600000000E+05 | PA | |
| 162 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 163 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 164 | TEMPERATURE/DRY | | MISSING K | |
| 165 | DEW POINT TEMPE | | MISSING K | |
| 166 | WIND DIRECTION | 0.3350000000E+03 | DEGREE TRUE | |
| 167 | WIND SPEED | 0.5000000000E+01 | M/S | |
| 168 | PRESSURE | 0.4500000000E+05 | PA | |
| 169 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 170 | GEOPOTENTIAL | 0.6576000000E+05 | M**2/S**2 | |
| 171 | TEMPERATURE/DRY | 0.2629000000E+03 | K | |
| 172 | DEW POINT TEMPE | 0.2593000000E+03 | K | |
| 173 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 174 | WIND SPEED | | MISSING M/S | |
| 175 | PRESSURE | 0.4080000000E+05 | PA | |
| 176 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 177 | GEOPOTENTIAL | 0.7307000000E+05 | M**2/S**2 | |
| 178 | TEMPERATURE/DRY | 0.2569000000E+03 | K | |
| 179 | DEW POINT TEMPE | 0.2538000000E+03 | K | |
| 180 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 181 | WIND SPEED | | MISSING M/S | |
| 182 | PRESSURE | 0.4000000000E+05 | PA | |
| 183 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 184 | GEOPOTENTIAL | 0.7443000000E+05 | M**2/S**2 | |
| 185 | TEMPERATURE/DRY | 0.2561000000E+03 | K | |
| 186 | DEW POINT TEMPE | 0.2520000000E+03 | K | |
| 187 | WIND DIRECTION | 0.3000000000E+03 | DEGREE TRUE | |
| 188 | WIND SPEED | 0.5000000000E+01 | M/S | |
| 189 | PRESSURE | 0.3410000000E+05 | PA | |
| 190 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 191 | GEOPOTENTIAL | 0.8612000000E+05 | M**2/S**2 | |

| | | | | |
|-----|-----------------|------------------|-------------|------|
| 192 | TEMPERATURE/DRY | 0.2495000000E+03 | K | |
| 193 | DEW POINT TEMPE | 0.2295000000E+03 | K | |
| 194 | WIND DIRECTION | MISSING | DEGREE TRUE | |
| 195 | WIND SPEED | MISSING | M/S | |
| 196 | PRESSURE | 0.3000000000E+05 | PA | |
| 197 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 198 | GEOPOTENTIAL | 0.9503000000E+05 | M**2/S**2 | |
| 199 | TEMPERATURE/DRY | 0.2415000000E+03 | K | |
| 200 | DEW POINT TEMPE | 0.2265000000E+03 | K | |
| 201 | WIND DIRECTION | 0.2300000000E+03 | DEGREE TRUE | |
| 202 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 203 | PRESSURE | 0.2630000000E+05 | PA | |
| 204 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 205 | GEOPOTENTIAL | 0.1041200000E+06 | M**2/S**2 | |
| 206 | TEMPERATURE/DRY | 0.2335000000E+03 | K | |
| 207 | DEW POINT TEMPE | 0.2225000000E+03 | K | |
| 208 | WIND DIRECTION | MISSING | DEGREE TRUE | |
| 209 | WIND SPEED | MISSING | M/S | |
| 210 | PRESSURE | 0.2500000000E+05 | PA | |
| 211 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 212 | GEOPOTENTIAL | 0.1073800000E+06 | M**2/S**2 | |
| 213 | TEMPERATURE/DRY | 0.2307000000E+03 | K | |
| 214 | DEW POINT TEMPE | MISSING | K | |
| 215 | WIND DIRECTION | 0.1800000000E+03 | DEGREE TRUE | |
| 216 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 217 | PRESSURE | 0.2300000000E+05 | PA | |
| 218 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 219 | GEOPOTENTIAL | MISSING | M**2/S**2 | |
| 220 | TEMPERATURE/DRY | MISSING | K | |
| 221 | DEW POINT TEMPE | MISSING | K | |
| 222 | WIND DIRECTION | 0.1600000000E+03 | DEGREE TRUE | |
| 223 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 224 | PRESSURE | 0.2000000000E+05 | PA | |
| 225 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 226 | GEOPOTENTIAL | 0.1218000000E+06 | M**2/S**2 | |
| 227 | TEMPERATURE/DRY | 0.2187000000E+03 | K | |
| 228 | DEW POINT TEMPE | MISSING | K | |
| 229 | WIND DIRECTION | 0.2000000000E+03 | DEGREE TRUE | |
| 230 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 231 | PRESSURE | 0.1840000000E+05 | PA | |
| 232 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 233 | GEOPOTENTIAL | MISSING | M**2/S**2 | |
| 234 | TEMPERATURE/DRY | MISSING | K | |
| 235 | DEW POINT TEMPE | MISSING | K | |
| 236 | WIND DIRECTION | 0.2200000000E+03 | DEGREE TRUE | |
| 237 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 238 | PRESSURE | 0.1710000000E+05 | PA | |
| 239 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 240 | GEOPOTENTIAL | 0.1315400000E+06 | M**2/S**2 | |
| 241 | TEMPERATURE/DRY | 0.2105000000E+03 | K | |
| 242 | DEW POINT TEMPE | MISSING | K | |
| 243 | WIND DIRECTION | MISSING | DEGREE TRUE | |
| 244 | WIND SPEED | MISSING | M/S | |
| 245 | PRESSURE | 0.1500000000E+05 | PA | |
| 246 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 247 | GEOPOTENTIAL | 0.1392500000E+06 | M**2/S**2 | |
| 248 | TEMPERATURE/DRY | 0.2069000000E+03 | K | |
| 249 | DEW POINT TEMPE | MISSING | K | |
| 250 | WIND DIRECTION | 0.1450000000E+03 | DEGREE TRUE | |
| 251 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 252 | PRESSURE | 0.1370000000E+05 | PA | |
| 253 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 254 | GEOPOTENTIAL | MISSING | M**2/S**2 | |
| 255 | TEMPERATURE/DRY | MISSING | K | |
| 256 | DEW POINT TEMPE | MISSING | K | |
| 257 | WIND DIRECTION | 0.1150000000E+03 | DEGREE TRUE | |
| 258 | WIND SPEED | 0.4000000000E+01 | M/S | |
| 259 | PRESSURE | 0.1030000000E+05 | PA | |
| 260 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 261 | GEOPOTENTIAL | 0.1611600000E+06 | M**2/S**2 | |
| 262 | TEMPERATURE/DRY | 0.1967000000E+03 | K | |
| 263 | DEW POINT TEMPE | MISSING | K | |
| 264 | WIND DIRECTION | MISSING | DEGREE TRUE | |
| 265 | WIND SPEED | MISSING | M/S | |
| 266 | PRESSURE | 0.1000000000E+05 | PA | |
| 267 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 268 | GEOPOTENTIAL | 0.1626900000E+06 | M**2/S**2 | |
| 269 | TEMPERATURE/DRY | 0.1963000000E+03 | K | |
| 270 | DEW POINT TEMPE | MISSING | K | |
| 271 | WIND DIRECTION | 0.2200000000E+03 | DEGREE TRUE | |
| 272 | WIND SPEED | 0.5000000000E+01 | M/S | |
| 273 | PRESSURE | 0.9990000000E+04 | PA | |
| 274 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 275 | GEOPOTENTIAL | MISSING | M**2/S**2 | |
| 276 | TEMPERATURE/DRY | MISSING | K | |
| 277 | DEW POINT TEMPE | MISSING | K | |
| 278 | WIND DIRECTION | 0.2200000000E+03 | DEGREE TRUE | |
| 279 | WIND SPEED | 0.5000000000E+01 | M/S | |
| 280 | PRESSURE | 0.9400000000E+04 | PA | |
| 281 | VERTICAL SOUNDI | 0.2000000000E+02 | FLAG TABLE | 8001 |
| 282 | GEOPOTENTIAL | 0.1663000000E+06 | M**2/S**2 | |
| 283 | TEMPERATURE/DRY | 0.1955000000E+03 | K | |
| 284 | DEW POINT TEMPE | MISSING | K | |

| | | | | |
|-----|-----------------|------------------|---------------------|------|
| 285 | WIND DIRECTION | 0.1800000000E+03 | DEGREE TRUE | |
| 286 | WIND SPEED | 0.5000000000E+01 | M/S | |
| 287 | PRESSURE | 0.8070000000E+04 | PA | |
| 288 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 289 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 290 | TEMPERATURE/DRY | | MISSING K | |
| 291 | DEW POINT TEMPE | | MISSING K | |
| 292 | WIND DIRECTION | 0.7500000000E+02 | DEGREE TRUE | |
| 293 | WIND SPEED | 0.3000000000E+01 | M/S | |
| 294 | PRESSURE | 0.7890000000E+04 | PA | |
| 295 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 296 | GEOPOTENTIAL | 0.1761100000E+06 | M**2/S**2 | |
| 297 | TEMPERATURE/DRY | 0.1947000000E+03 | K | |
| 298 | DEW POINT TEMPE | | MISSING K | |
| 299 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 300 | WIND SPEED | | MISSING M/S | |
| 301 | PRESSURE | 0.7000000000E+04 | PA | |
| 302 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 303 | GEOPOTENTIAL | 0.1828000000E+06 | M**2/S**2 | |
| 304 | TEMPERATURE/DRY | 0.1987000000E+03 | K | |
| 305 | DEW POINT TEMPE | | MISSING K | |
| 306 | WIND DIRECTION | 0.1350000000E+03 | DEGREE TRUE | |
| 307 | WIND SPEED | 0.8000000000E+01 | M/S | |
| 308 | PRESSURE | 0.6910000000E+04 | PA | |
| 309 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 310 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 311 | TEMPERATURE/DRY | | MISSING K | |
| 312 | DEW POINT TEMPE | | MISSING K | |
| 313 | WIND DIRECTION | 0.1400000000E+03 | DEGREE TRUE | |
| 314 | WIND SPEED | 0.9000000000E+01 | M/S | |
| 315 | PRESSURE | 0.6410000000E+04 | PA | |
| 316 | VERTICAL SOUNDI | 0.6000000000E+01 | FLAG TABLE | 8001 |
| 317 | GEOPOTENTIAL | 0.1879200000E+06 | M**2/S**2 | |
| 318 | TEMPERATURE/DRY | 0.2017000000E+03 | K | |
| 319 | DEW POINT TEMPE | | MISSING K | |
| 320 | WIND DIRECTION | 0.1000000000E+03 | DEGREE TRUE | |
| 321 | WIND SPEED | 0.1300000000E+02 | M/S | |
| 322 | PRESSURE | 0.5680000000E+04 | PA | |
| 323 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 324 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 325 | TEMPERATURE/DRY | | MISSING K | |
| 326 | DEW POINT TEMPE | | MISSING K | |
| 327 | WIND DIRECTION | 0.9000000000E+02 | DEGREE TRUE | |
| 328 | WIND SPEED | 0.1200000000E+02 | M/S | |
| 329 | PRESSURE | 0.5460000000E+04 | PA | |
| 330 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 331 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 332 | TEMPERATURE/DRY | | MISSING K | |
| 333 | DEW POINT TEMPE | | MISSING K | |
| 334 | WIND DIRECTION | 0.1150000000E+03 | DEGREE TRUE | |
| 335 | WIND SPEED | 0.1400000000E+02 | M/S | |
| 336 | PRESSURE | 0.5000000000E+04 | PA | |
| 337 | VERTICAL SOUNDI | 0.3200000000E+02 | FLAG TABLE | 8001 |
| 338 | GEOPOTENTIAL | 0.2023100000E+06 | M**2/S**2 | |
| 339 | TEMPERATURE/DRY | 0.2057000000E+03 | K | |
| 340 | DEW POINT TEMPE | | MISSING K | |
| 341 | WIND DIRECTION | 0.1000000000E+03 | DEGREE TRUE | |
| 342 | WIND SPEED | 0.1500000000E+02 | M/S | |
| 343 | PRESSURE | 0.4190000000E+04 | PA | |
| 344 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 345 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 346 | TEMPERATURE/DRY | | MISSING K | |
| 347 | DEW POINT TEMPE | | MISSING K | |
| 348 | WIND DIRECTION | 0.7500000000E+02 | DEGREE TRUE | |
| 349 | WIND SPEED | 0.1800000000E+02 | M/S | |
| 350 | PRESSURE | 0.3570000000E+04 | PA | |
| 351 | VERTICAL SOUNDI | 0.2000000000E+01 | FLAG TABLE | 8001 |
| 352 | GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 353 | TEMPERATURE/DRY | | MISSING K | |
| 354 | DEW POINT TEMPE | | MISSING K | |
| 355 | WIND DIRECTION | 0.9500000000E+02 | DEGREE TRUE | |
| 356 | WIND SPEED | 0.1800000000E+02 | M/S | |
| 357 | PRESSURE | 0.3440000000E+04 | PA | |
| 358 | VERTICAL SOUNDI | 0.4000000000E+01 | FLAG TABLE | 8001 |
| 359 | GEOPOTENTIAL | 0.2248500000E+06 | M**2/S**2 | |
| 360 | TEMPERATURE/DRY | 0.2119000000E+03 | K | |
| 361 | DEW POINT TEMPE | | MISSING K | |
| 362 | WIND DIRECTION | | MISSING DEGREE TRUE | |
| 363 | WIND SPEED | | MISSING M/S | |
| 364 | QUALITY INFORMA | 0.0000000000E+00 | | |
| 365 | EXTENDED DELAYE | 0.3630000000E+03 | NUMERIC | |
| 366 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 367 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 368 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 369 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 370 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 371 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 372 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 373 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 374 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 375 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 376 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 377 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |


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657 DATA PRESENT IN      0.0000000000E+00 NUMERIC
658 DATA PRESENT IN      0.0000000000E+00 NUMERIC
659 DATA PRESENT IN      0.0000000000E+00 NUMERIC
660 DATA PRESENT IN      0.0000000000E+00 NUMERIC
661 DATA PRESENT IN      0.0000000000E+00 NUMERIC
662 DATA PRESENT IN      0.0000000000E+00 NUMERIC
663 DATA PRESENT IN      MISSING NUMERIC
664 DATA PRESENT IN      MISSING NUMERIC
665 DATA PRESENT IN      MISSING NUMERIC
666 DATA PRESENT IN      0.0000000000E+00 NUMERIC
667 DATA PRESENT IN      0.0000000000E+00 NUMERIC
668 DATA PRESENT IN      0.0000000000E+00 NUMERIC
669 DATA PRESENT IN      0.0000000000E+00 NUMERIC
670 DATA PRESENT IN      MISSING NUMERIC
671 DATA PRESENT IN      0.0000000000E+00 NUMERIC
672 DATA PRESENT IN      0.0000000000E+00 NUMERIC
673 DATA PRESENT IN      0.0000000000E+00 NUMERIC
674 DATA PRESENT IN      0.0000000000E+00 NUMERIC
675 DATA PRESENT IN      MISSING NUMERIC
676 DATA PRESENT IN      MISSING NUMERIC
677 DATA PRESENT IN      MISSING NUMERIC
678 DATA PRESENT IN      0.0000000000E+00 NUMERIC
679 DATA PRESENT IN      0.0000000000E+00 NUMERIC
680 DATA PRESENT IN      0.0000000000E+00 NUMERIC
681 DATA PRESENT IN      0.0000000000E+00 NUMERIC
682 DATA PRESENT IN      0.0000000000E+00 NUMERIC
683 DATA PRESENT IN      0.0000000000E+00 NUMERIC
684 DATA PRESENT IN      MISSING NUMERIC
685 DATA PRESENT IN      0.0000000000E+00 NUMERIC
686 DATA PRESENT IN      0.0000000000E+00 NUMERIC
687 DATA PRESENT IN      0.0000000000E+00 NUMERIC
688 DATA PRESENT IN      0.0000000000E+00 NUMERIC
689 DATA PRESENT IN      MISSING NUMERIC
690 DATA PRESENT IN      MISSING NUMERIC
691 DATA PRESENT IN      MISSING NUMERIC
692 DATA PRESENT IN      0.0000000000E+00 NUMERIC
693 DATA PRESENT IN      0.0000000000E+00 NUMERIC
694 DATA PRESENT IN      0.0000000000E+00 NUMERIC
695 DATA PRESENT IN      0.0000000000E+00 NUMERIC
696 DATA PRESENT IN      MISSING NUMERIC
697 DATA PRESENT IN      MISSING NUMERIC
698 DATA PRESENT IN      MISSING NUMERIC
699 DATA PRESENT IN      0.0000000000E+00 NUMERIC
700 DATA PRESENT IN      0.0000000000E+00 NUMERIC
701 DATA PRESENT IN      0.0000000000E+00 NUMERIC
702 DATA PRESENT IN      0.0000000000E+00 NUMERIC
703 DATA PRESENT IN      0.0000000000E+00 NUMERIC
704 DATA PRESENT IN      0.0000000000E+00 NUMERIC
705 DATA PRESENT IN      MISSING NUMERIC
706 DATA PRESENT IN      0.0000000000E+00 NUMERIC
707 DATA PRESENT IN      0.0000000000E+00 NUMERIC
708 DATA PRESENT IN      0.0000000000E+00 NUMERIC
709 DATA PRESENT IN      0.0000000000E+00 NUMERIC
710 DATA PRESENT IN      MISSING NUMERIC
711 DATA PRESENT IN      MISSING NUMERIC
712 DATA PRESENT IN      MISSING NUMERIC
713 DATA PRESENT IN      0.0000000000E+00 NUMERIC
714 DATA PRESENT IN      0.0000000000E+00 NUMERIC
715 DATA PRESENT IN      0.0000000000E+00 NUMERIC
716 DATA PRESENT IN      0.0000000000E+00 NUMERIC
717 DATA PRESENT IN      MISSING NUMERIC
718 DATA PRESENT IN      MISSING NUMERIC
719 DATA PRESENT IN      MISSING NUMERIC
720 DATA PRESENT IN      0.0000000000E+00 NUMERIC
721 DATA PRESENT IN      0.0000000000E+00 NUMERIC
722 DATA PRESENT IN      0.0000000000E+00 NUMERIC
723 DATA PRESENT IN      0.0000000000E+00 NUMERIC
724 DATA PRESENT IN      0.0000000000E+00 NUMERIC
725 DATA PRESENT IN      0.0000000000E+00 NUMERIC
726 DATA PRESENT IN      MISSING NUMERIC
727 DATA PRESENT IN      MISSING NUMERIC
728 DATA PRESENT IN      MISSING NUMERIC
729 IDENTIFICATION        0.9800000000E+02 CODE TABLE 1031
730 GENERATING APPL      0.1000000000E+01 CODE TABLE 1032
731 EXTENDED DELAYE      0.2720000000E+03 NUMERIC
732 % CONFIDENCE          0.7000000000E+02 NUMERIC
733 % CONFIDENCE          0.7000000000E+02 NUMERIC
734 % CONFIDENCE          0.7000000000E+02 NUMERIC
735 % CONFIDENCE          0.7000000000E+02 NUMERIC
736 % CONFIDENCE          0.7000000000E+02 NUMERIC
737 % CONFIDENCE          0.7000000000E+02 NUMERIC
738 % CONFIDENCE          0.7000000000E+02 NUMERIC
739 % CONFIDENCE          0.7000000000E+02 NUMERIC
740 % CONFIDENCE          0.7000000000E+02 NUMERIC
741 % CONFIDENCE          0.7000000000E+02 NUMERIC
742 % CONFIDENCE          0.7000000000E+02 NUMERIC
743 % CONFIDENCE          0.7000000000E+02 NUMERIC
744 % CONFIDENCE          0.7000000000E+02 NUMERIC
745 % CONFIDENCE          0.7000000000E+02 NUMERIC
746 % CONFIDENCE          0.7000000000E+02 NUMERIC
747 % CONFIDENCE          0.7000000000E+02 NUMERIC
748 % CONFIDENCE          0.7000000000E+02 NUMERIC
749 % CONFIDENCE          0.7000000000E+02 NUMERIC
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936 % CONFIDENCE 0.7000000000E+02 NUMERIC
937 % CONFIDENCE 0.7000000000E+02 NUMERIC
938 % CONFIDENCE 0.8200000000E+02 NUMERIC
939 % CONFIDENCE 0.7000000000E+02 NUMERIC
940 % CONFIDENCE 0.7400000000E+02 NUMERIC
941 % CONFIDENCE 0.7000000000E+02 NUMERIC
942 % CONFIDENCE 0.7000000000E+02 NUMERIC
943 % CONFIDENCE 0.7000000000E+02 NUMERIC
944 % CONFIDENCE 0.7500000000E+02 NUMERIC
945 % CONFIDENCE 0.7000000000E+02 NUMERIC
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948 % CONFIDENCE 0.7900000000E+02 NUMERIC
949 % CONFIDENCE 0.7000000000E+02 NUMERIC
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955 % CONFIDENCE 0.7000000000E+02 NUMERIC
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958 % CONFIDENCE 0.7500000000E+02 NUMERIC
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962 % CONFIDENCE 0.8200000000E+02 NUMERIC
963 % CONFIDENCE 0.7000000000E+02 NUMERIC
964 % CONFIDENCE 0.7400000000E+02 NUMERIC
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967 % CONFIDENCE 0.7000000000E+02 NUMERIC
968 % CONFIDENCE 0.7500000000E+02 NUMERIC
969 % CONFIDENCE 0.7000000000E+02 NUMERIC
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971 % CONFIDENCE 0.7000000000E+02 NUMERIC
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978 % CONFIDENCE 0.7500000000E+02 NUMERIC
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981 % CONFIDENCE 0.7000000000E+02 NUMERIC
982 % CONFIDENCE 0.7500000000E+02 NUMERIC
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986 % CONFIDENCE 0.8200000000E+02 NUMERIC
987 % CONFIDENCE 0.7000000000E+02 NUMERIC
988 % CONFIDENCE 0.7400000000E+02 NUMERIC
989 % CONFIDENCE 0.7000000000E+02 NUMERIC
990 % CONFIDENCE 0.7000000000E+02 NUMERIC
991 % CONFIDENCE 0.7000000000E+02 NUMERIC
992 % CONFIDENCE 0.7500000000E+02 NUMERIC
993 % CONFIDENCE 0.7000000000E+02 NUMERIC
994 % CONFIDENCE 0.7000000000E+02 NUMERIC
995 % CONFIDENCE 0.7000000000E+02 NUMERIC
996 % CONFIDENCE 0.7500000000E+02 NUMERIC
997 % CONFIDENCE 0.7000000000E+02 NUMERIC
998 % CONFIDENCE 0.7000000000E+02 NUMERIC
999 % CONFIDENCE 0.7000000000E+02 NUMERIC
1000 % CONFIDENCE 0.7500000000E+02 NUMERIC
1001 % CONFIDENCE 0.7000000000E+02 NUMERIC
1002 % CONFIDENCE 0.7000000000E+02 NUMERIC
1003 % CONFIDENCE 0.7000000000E+02 NUMERIC
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3.25 Temp ship

RDB type 5, subtype 102

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ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 198
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                2
BUFR MESSAGE SUBTYPE             102
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2
LENGTH OF SECTION 2              52
REPORT DATA BASE KEY
RDB DATA TYPE                   5
RDB DATA SUBTYPE                102
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             10
MINUTE                           0
SECOND                           0
LATITUDE 1                       -62.80
LONGITUDE 1                      -57.00
IDENTIFIER                       DBLK
TOTAL BUFR MESSAGE LENGTH        198
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             12
MINUTE (RDB INSERTION)           44
SECOND (RDB INSERTION)           49
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               12
MINUTE (MDB ARRIVAL)             40
SECOND (MDB ARRIVAL)             25
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL & CONF           70
1
    BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      28
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)
1 309196
2 222000
3 101000
```




4 031002
 5 031031
 6 001031
 7 001032
 8 101000
 9 031002
 10 033007

DATA DESCRIPTORS (EXPANDED)

1 001011 SHIP OR MOBILE LAND STATION IDENTIFIER
 2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
 3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
 4 002011 RADIOSONDE TYPE
 5 002012 RADIOSONDE COMPUTATIONAL METHOD
 6 004001 YEAR
 7 004002 MONTH
 8 004003 DAY
 9 004004 HOUR
 10 004005 MINUTE
 11 005002 LATITUDE (COARSE ACCURACY)
 12 006002 LONGITUDE (COARSE ACCURACY)
 13 007001 HEIGHT OF STATION
 14 020010 CLOUD COVER (TOTAL)
 15 008002 VERTICAL SIGNIFICANCE (SURFACE OBSERVATIONS)
 16 020011 CLOUD AMOUNT
 17 020013 HEIGHT OF BASE OF CLOUD
 18 020012 CLOUD TYPE
 19 020012 CLOUD TYPE
 20 020012 CLOUD TYPE
 21 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
 22 007004 PRESSURE
 23 008001 VERTICAL SOUNDING SIGNIFICANCE
 24 010003 GEOPOTENTIAL
 25 012001 TEMPERATURE/DRY BULB TEMPERATURE
 26 012003 DEW POINT TEMPERATURE
 27 011001 WIND DIRECTION
 28 011002 WIND SPEED
 29 222000 QUALITY INFORMATION FOLLOW
 30 031002 EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR
 31 031031 DATA PRESENT INDICATOR
 32 031031 DATA PRESENT INDICATOR
 33 031031 DATA PRESENT INDICATOR
 34 031031 DATA PRESENT INDICATOR
 35 031031 DATA PRESENT INDICATOR
 36 031031 DATA PRESENT INDICATOR
 37 031031 DATA PRESENT INDICATOR
 38 031031 DATA PRESENT INDICATOR
 39 031031 DATA PRESENT INDICATOR
 40 031031 DATA PRESENT INDICATOR
 41 031031 DATA PRESENT INDICATOR
 42 031031 DATA PRESENT INDICATOR
 43 031031 DATA PRESENT INDICATOR
 44 031031 DATA PRESENT INDICATOR
 45 031031 DATA PRESENT INDICATOR
 46 031031 DATA PRESENT INDICATOR
 47 031031 DATA PRESENT INDICATOR
 48 031031 DATA PRESENT INDICATOR
 49 031031 DATA PRESENT INDICATOR
 50 031031 DATA PRESENT INDICATOR
 51 031031 DATA PRESENT INDICATOR
 52 031031 DATA PRESENT INDICATOR
 53 031031 DATA PRESENT INDICATOR
 54 031031 DATA PRESENT INDICATOR
 55 031031 DATA PRESENT INDICATOR
 56 031031 DATA PRESENT INDICATOR
 57 031031 DATA PRESENT INDICATOR
 58 031031 DATA PRESENT INDICATOR
 59 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
 60 001032 GENERATING APPLICATION
 61 031002 EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR
 62 033007 % CONFIDENCE
 63 033007 % CONFIDENCE
 64 033007 % CONFIDENCE
 65 033007 % CONFIDENCE
 66 033007 % CONFIDENCE
 67 033007 % CONFIDENCE
 68 033007 % CONFIDENCE
 69 033007 % CONFIDENCE
 70 033007 % CONFIDENCE
 71 033007 % CONFIDENCE
 72 033007 % CONFIDENCE
 73 033007 % CONFIDENCE
 74 033007 % CONFIDENCE
 75 033007 % CONFIDENCE
 76 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : ENDING SUBSET TO BE PRINTED :
 1 SHIP OR MOBILE 0.1009000000E+04 CCITTIA5 DBLK
 2 DIRECTION OF MO MISSING DEGREE TRUE
 3 SPEED OF MOTION MISSING M/S
 4 RADIOSONDE TYPE MISSING CODE TABLE 2011
 5 RADIOSONDE COMP MISSING CODE TABLE 2012

| | | | |
|--------------------|-------------------|---------------------|-------|
| 6 YEAR | 0.2001000000E+04 | YEAR | |
| 7 MONTH | 0.2000000000E+01 | MONTH | |
| 8 DAY | 0.1000000000E+01 | DAY | |
| 9 HOUR | 0.1000000000E+02 | HOUR | |
| 10 MINUTE | 0.0000000000E+00 | MINUTE | |
| 11 LATITUDE (COARS | -0.6280000000E+02 | DEGREE | |
| 12 LONGITUDE (COAR | -0.5700000000E+02 | DEGREE | |
| 13 HEIGHT OF STATI | 0.8000000000E+01 | M | |
| 14 CLOUD COVER (TO | | MISSING % | |
| 15 VERTICAL SIGNIF | 0.1000000000E+01 | CODE TABLE | 8002 |
| 16 CLOUD AMOUNT | | MISSING CODE TABLE | 20011 |
| 17 HEIGHT OF BASE | | MISSING M | |
| 18 CLOUD TYPE | | MISSING CODE TABLE | 20012 |
| 19 CLOUD TYPE | | MISSING CODE TABLE | 20012 |
| 20 CLOUD TYPE | | MISSING CODE TABLE | 20012 |
| 21 DELAYED DESCRIP | 0.1000000000E+01 | NUMERIC | |
| 22 PRESSURE | 0.9860000000E+05 | PA | |
| 23 VERTICAL SOUNDI | 0.6800000000E+02 | FLAG TABLE | 8001 |
| 24 GEOPOTENTIAL | | MISSING M**2/S**2 | |
| 25 TEMPERATURE/DRY | 0.2709000000E+03 | K | |
| 26 DEW POINT TEMPE | 0.2693000000E+03 | K | |
| 27 WIND DIRECTION | | MISSING DEGREE TRUE | |
| 28 WIND SPEED | | MISSING M/S | |
| 29 QUALITY INFORMA | 0.0000000000E+00 | | |
| 30 EXTENDED DELAYE | 0.2800000000E+02 | NUMERIC | |
| 31 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 32 DATA PRESENT IN | | MISSING NUMERIC | |
| 33 DATA PRESENT IN | | MISSING NUMERIC | |
| 34 DATA PRESENT IN | | MISSING NUMERIC | |
| 35 DATA PRESENT IN | | MISSING NUMERIC | |
| 36 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 37 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 38 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 39 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 40 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 41 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 42 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 43 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 44 DATA PRESENT IN | | MISSING NUMERIC | |
| 45 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 46 DATA PRESENT IN | | MISSING NUMERIC | |
| 47 DATA PRESENT IN | | MISSING NUMERIC | |
| 48 DATA PRESENT IN | | MISSING NUMERIC | |
| 49 DATA PRESENT IN | | MISSING NUMERIC | |
| 50 DATA PRESENT IN | | MISSING NUMERIC | |
| 51 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 52 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 53 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 54 DATA PRESENT IN | | MISSING NUMERIC | |
| 55 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 56 DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | |
| 57 DATA PRESENT IN | | MISSING NUMERIC | |
| 58 DATA PRESENT IN | | MISSING NUMERIC | |
| 59 IDENTIFICATION | 0.9800000000E+02 | CODE TABLE | 1031 |
| 60 GENERATING APPL | 0.1000000000E+01 | CODE TABLE | 1032 |
| 61 EXTENDED DELAYE | 0.1500000000E+02 | NUMERIC | |
| 62 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 63 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 64 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 65 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 66 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 67 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 68 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 69 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 70 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 71 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 72 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 73 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 74 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 75 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |
| 76 % CONFIDENCE | 0.7000000000E+02 | NUMERIC | |



3.26 AIREP data

RDB type 7, subtype 142

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)      8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 162
    BUFR EDITION NUMBER              3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)      18
    BUFR EDITION NUMBER              3
    ORIGINATING SUB-CENTRE           0
    ORIGINATING CENTRE               98
    UPDATE SEQUENCE NUMBER            1
    FLAG (PRESENCE OF SECTION 2)     128
    BUFR MESSAGE TYPE                 4
    BUFR MESSAGE SUBTYPE              142
    VERSION NUMBER OF LOCAL TABLE    1
    YEAR                              1
    MONTH                             2
    DAY                               1
    HOUR                              9
    MINUTE                            1
    VERSION NUMBER OF MASTER TABLE   6
    BUFR MASTER TABLE                0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2              52
    REPORT DATA BASE KEY
    RDB DATA TYPE                    7
    RDB DATA SUBTYPE                 142
    YEAR                             2001
    MONTH                             2
    DAY                               1
    HOUR                              9
    MINUTE                            1
    SECOND                             54
    LATITUDE 1                        23.50
    LONGITUDE 1                       -65.80
    IDENTIFIER                         KLM742
    TOTAL BUFR MESSAGE LENGTH         162
    DAY (RDB INSERTION)                1
    HOUR (RDB INSERTION)                9
    MINUTE (RDB INSERTION)              24
    SECOND (RDB INSERTION)              9
    DAY (MDB ARRIVAL)                  1
    HOUR (MDB ARRIVAL)                 9
    MINUTE (MDB ARRIVAL)                20
    SECOND (MDB ARRIVAL)                15
    CORRECTION NUMBER                  0
    PART OF MESSAGE                     1
    CORRECTION NUMBER                   0
    PART OF MESSAGE                     0
    CORRECTION NUMBER                   0
    PART OF MESSAGE                     0
    CORRECTION NUMBER                   0
    PART OF MESSAGE                     0
    CORRECTION NUMBER                   0
    PART OF MESSAGE                     0
    QUALITY CONTROL & CONF              70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)        24
    RESERVED                            0
    NUMBER OF DATA SUBSETS             1
    FLAG (DATA TYPE/DATA COMPRESSION)  128

    DATA DESCRIPTORS (UNEXPANDED)
    1 311001
    2 222000
    3 101018

```

4 031031
5 001031
6 001032
7 101018
8 033007

DATA DESCRIPTORS (EXPANDED)

1 001006 AIRCRAFT FLIGHT NUMBER
2 002061 AIRCRAFT NAVIGATIONAL SYSTEM
3 004001 YEAR
4 004002 MONTH
5 004003 DAY
6 004004 HOUR
7 004005 MINUTE
8 005001 LATITUDE (HIGH ACCURACY)
9 006001 LONGITUDE (HIGH ACCURACY)
10 008004 PHASE OF AIRCRAFT FLIGHT
11 007002 HEIGHT OR ALTITUDE
12 012001 TEMPERATURE/DRY BULB TEMPERATURE
13 011001 WIND DIRECTION
14 011002 WIND SPEED
15 011031 DEGREE OF TURBULENCE
16 011032 HEIGHT OF BASE OF TURBULENCE
17 011033 HEIGHT OF TOP OF TURBULENCE
18 020041 AIRFRAME ICING
19 222000 QUALITY INFORMATION FOLLOW
20 031031 DATA PRESENT INDICATOR
21 031031 DATA PRESENT INDICATOR
22 031031 DATA PRESENT INDICATOR
23 031031 DATA PRESENT INDICATOR
24 031031 DATA PRESENT INDICATOR
25 031031 DATA PRESENT INDICATOR
26 031031 DATA PRESENT INDICATOR
27 031031 DATA PRESENT INDICATOR
28 031031 DATA PRESENT INDICATOR
29 031031 DATA PRESENT INDICATOR
30 031031 DATA PRESENT INDICATOR
31 031031 DATA PRESENT INDICATOR
32 031031 DATA PRESENT INDICATOR
33 031031 DATA PRESENT INDICATOR
34 031031 DATA PRESENT INDICATOR
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
39 001032 GENERATING APPLICATION
40 033007 % CONFIDENCE
41 033007 % CONFIDENCE
42 033007 % CONFIDENCE
43 033007 % CONFIDENCE
44 033007 % CONFIDENCE
45 033007 % CONFIDENCE
46 033007 % CONFIDENCE
47 033007 % CONFIDENCE
48 033007 % CONFIDENCE
49 033007 % CONFIDENCE
50 033007 % CONFIDENCE
51 033007 % CONFIDENCE
52 033007 % CONFIDENCE
53 033007 % CONFIDENCE
54 033007 % CONFIDENCE
55 033007 % CONFIDENCE
56 033007 % CONFIDENCE
57 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1

ENDING SUBSET TO BE PRINTED : 1

| | | | | | |
|----|-----------------|--------------------|--------------------|-------|--------|
| 1 | AIRCRAFT FLIGHT | 0.10080000000E+04 | CCITTIA5 | | KLM742 |
| 2 | AIRCRAFT NAVIGA | | MISSING CODE TABLE | 2061 | |
| 3 | YEAR | 0.20010000000E+04 | YEAR | | |
| 4 | MONTH | 0.20000000000E+01 | MONTH | | |
| 5 | DAY | 0.10000000000E+01 | DAY | | |
| 6 | HOUR | 0.90000000000E+01 | HOUR | | |
| 7 | MINUTE | 0.10000000000E+01 | MINUTE | | |
| 8 | LATITUDE (HIGH | 0.23500000000E+02 | DEGREE | | |
| 9 | LONGITUDE (HIGH | -0.65800010000E+02 | DEGREE | | |
| 10 | PHASE OF AIRCRA | | MISSING CODE TABLE | 8004 | |
| 11 | HEIGHT OR ALTIT | 0.10060000000E+05 | M | | |
| 12 | TEMPERATURE/DRY | 0.22920000000E+03 | K | | |
| 13 | WIND DIRECTION | 0.33000000000E+03 | DEGREE TRUE | | |
| 14 | WIND SPEED | 0.21000000000E+02 | M/S | | |
| 15 | DEGREE OF TURBU | | MISSING CODE TABLE | 11031 | |
| 16 | HEIGHT OF BASE | | MISSING M | | |
| 17 | HEIGHT OF TOP O | | MISSING M | | |
| 18 | AIRFRAME ICING | | MISSING CODE TABLE | 20041 | |
| 19 | QUALITY INFORMA | 0.00000000000E+00 | | | |
| 20 | DATA PRESENT IN | 0.00000000000E+00 | NUMERIC | | |
| 21 | DATA PRESENT IN | 0.00000000000E+00 | NUMERIC | | |
| 22 | DATA PRESENT IN | 0.00000000000E+00 | NUMERIC | | |
| 23 | DATA PRESENT IN | 0.00000000000E+00 | NUMERIC | | |



```
24 DATA PRESENT IN      0.0000000000E+00 NUMERIC
25 DATA PRESENT IN      0.0000000000E+00 NUMERIC
26 DATA PRESENT IN      0.0000000000E+00 NUMERIC
27 DATA PRESENT IN      0.0000000000E+00 NUMERIC
28 DATA PRESENT IN      0.0000000000E+00 NUMERIC
29 DATA PRESENT IN      0.0000000000E+00 NUMERIC
30 DATA PRESENT IN      0.0000000000E+00 NUMERIC
31 DATA PRESENT IN      0.0000000000E+00 NUMERIC
32 DATA PRESENT IN      0.0000000000E+00 NUMERIC
33 DATA PRESENT IN      0.0000000000E+00 NUMERIC
34 DATA PRESENT IN      0.0000000000E+00 NUMERIC
35 DATA PRESENT IN      0.0000000000E+00 NUMERIC
36 DATA PRESENT IN      0.0000000000E+00 NUMERIC
37 DATA PRESENT IN      0.0000000000E+00 NUMERIC
38 IDENTIFICATION        0.9800000000E+02 CODE TABLE 1031
39 GENERATING APPL      0.1000000000E+01 CODE TABLE 1032
40 % CONFIDENCE          0.7000000000E+02 NUMERIC
41 % CONFIDENCE          0.7000000000E+02 NUMERIC
42 % CONFIDENCE          0.7000000000E+02 NUMERIC
43 % CONFIDENCE          0.7000000000E+02 NUMERIC
44 % CONFIDENCE          0.7000000000E+02 NUMERIC
45 % CONFIDENCE          0.7000000000E+02 NUMERIC
46 % CONFIDENCE          0.7000000000E+02 NUMERIC
47 % CONFIDENCE          0.7000000000E+02 NUMERIC
48 % CONFIDENCE          0.7000000000E+02 NUMERIC
49 % CONFIDENCE          0.7000000000E+02 NUMERIC
50 % CONFIDENCE          0.7900000000E+02 NUMERIC
51 % CONFIDENCE          0.7000000000E+02 NUMERIC
52 % CONFIDENCE          0.7000000000E+02 NUMERIC
53 % CONFIDENCE          0.7000000000E+02 NUMERIC
54 % CONFIDENCE          0.7000000000E+02 NUMERIC
55 % CONFIDENCE          0.7000000000E+02 NUMERIC
56 % CONFIDENCE          0.7000000000E+02 NUMERIC
57 % CONFIDENCE          0.7000000000E+02 NUMERIC
```

3.27 AMDAR data

RDB type 7, subtype 144

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 162
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                4
BUFR MESSAGE SUBTYPE             144
VERSION NUMBER OF LOCAL TABLE   1
YEAR                             1
MONTH                            2
DAY                              1
HOUR                             9
MINUTE                           3
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2
LENGTH OF SECTION 2              52
REPORT DATA BASE KEY
RDB DATA TYPE                   7
RDB DATA SUBTYPE                144
YEAR                             2001
MONTH                            2
DAY                              1
HOUR                             9
MINUTE                           3
SECOND                           43
LATITUDE 1                       63.43
LONGITUDE 1                      20.13
IDENTIFIER                       EU5612
TOTAL BUFR MESSAGE LENGTH        162
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             9
MINUTE (RDB INSERTION)           14
SECOND (RDB INSERTION)           0
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               9
MINUTE (MDB ARRIVAL)             8
SECOND (MDB ARRIVAL)             56
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL & CONF           70
1
    BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      24
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

DATA DESCRIPTORS (UNEXPANDED)
1 311001
2 222000
3 101018
```

4 031031
5 001031
6 001032
7 101018
8 033007

DATA DESCRIPTORS (EXPANDED)

1 001006 AIRCRAFT FLIGHT NUMBER
2 002061 AIRCRAFT NAVIGATIONAL SYSTEM
3 004001 YEAR
4 004002 MONTH
5 004003 DAY
6 004004 HOUR
7 004005 MINUTE
8 005001 LATITUDE (HIGH ACCURACY)
9 006001 LONGITUDE (HIGH ACCURACY)
10 008004 PHASE OF AIRCRAFT FLIGHT
11 007002 HEIGHT OR ALTITUDE
12 012001 TEMPERATURE/DRY BULB TEMPERATURE
13 011001 WIND DIRECTION
14 011002 WIND SPEED
15 011031 DEGREE OF TURBULENCE
16 011032 HEIGHT OF BASE OF TURBULENCE
17 011033 HEIGHT OF TOP OF TURBULENCE
18 020041 AIRFRAME ICING
19 222000 QUALITY INFORMATION FOLLOW
20 031031 DATA PRESENT INDICATOR
21 031031 DATA PRESENT INDICATOR
22 031031 DATA PRESENT INDICATOR
23 031031 DATA PRESENT INDICATOR
24 031031 DATA PRESENT INDICATOR
25 031031 DATA PRESENT INDICATOR
26 031031 DATA PRESENT INDICATOR
27 031031 DATA PRESENT INDICATOR
28 031031 DATA PRESENT INDICATOR
29 031031 DATA PRESENT INDICATOR
30 031031 DATA PRESENT INDICATOR
31 031031 DATA PRESENT INDICATOR
32 031031 DATA PRESENT INDICATOR
33 031031 DATA PRESENT INDICATOR
34 031031 DATA PRESENT INDICATOR
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
39 001032 GENERATING APPLICATION
40 033007 % CONFIDENCE
41 033007 % CONFIDENCE
42 033007 % CONFIDENCE
43 033007 % CONFIDENCE
44 033007 % CONFIDENCE
45 033007 % CONFIDENCE
46 033007 % CONFIDENCE
47 033007 % CONFIDENCE
48 033007 % CONFIDENCE
49 033007 % CONFIDENCE
50 033007 % CONFIDENCE
51 033007 % CONFIDENCE
52 033007 % CONFIDENCE
53 033007 % CONFIDENCE
54 033007 % CONFIDENCE
55 033007 % CONFIDENCE
56 033007 % CONFIDENCE
57 033007 % CONFIDENCE

STARTING SUBSET TO BE PRINTED : 1

ENDING SUBSET TO BE PRINTED : 1

| | | | | | |
|----|-----------------|------------------|--------------------|-------|--------|
| 1 | AIRCRAFT FLIGHT | 0.1008000000E+04 | CCITTIA5 | | EU5612 |
| 2 | AIRCRAFT NAVIGA | | MISSING CODE TABLE | 2061 | |
| 3 | YEAR | 0.2001000000E+04 | YEAR | | |
| 4 | MONTH | 0.2000000000E+01 | MONTH | | |
| 5 | DAY | 0.1000000000E+01 | DAY | | |
| 6 | HOUR | 0.9000000000E+01 | HOUR | | |
| 7 | MINUTE | 0.3000000000E+01 | MINUTE | | |
| 8 | LATITUDE (HIGH | 0.6343000000E+02 | DEGREE | | |
| 9 | LONGITUDE (HIGH | 0.2013000000E+02 | DEGREE | | |
| 10 | PHASE OF AIRCRA | 0.3000000000E+01 | CODE TABLE | 8004 | |
| 11 | HEIGHT OR ALTIT | 0.1128000000E+05 | M | | |
| 12 | TEMPERATURE/DRY | 0.2162000000E+03 | K | | |
| 13 | WIND DIRECTION | 0.4000000000E+01 | DEGREE TRUE | | |
| 14 | WIND SPEED | 0.1600000000E+02 | M/S | | |
| 15 | DEGREE OF TURBU | | MISSING CODE TABLE | 11031 | |
| 16 | HEIGHT OF BASE | | MISSING M | | |
| 17 | HEIGHT OF TOP O | | MISSING M | | |
| 18 | AIRFRAME ICING | | MISSING CODE TABLE | 20041 | |
| 19 | QUALITY INFORMA | 0.0000000000E+00 | | | |
| 20 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 21 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 22 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |
| 23 | DATA PRESENT IN | 0.0000000000E+00 | NUMERIC | | |

```
24 DATA PRESENT IN      0.000000000E+00 NUMERIC
25 DATA PRESENT IN      0.000000000E+00 NUMERIC
26 DATA PRESENT IN      0.000000000E+00 NUMERIC
27 DATA PRESENT IN      0.000000000E+00 NUMERIC
28 DATA PRESENT IN      0.000000000E+00 NUMERIC
29 DATA PRESENT IN      0.000000000E+00 NUMERIC
30 DATA PRESENT IN      0.000000000E+00 NUMERIC
31 DATA PRESENT IN      0.000000000E+00 NUMERIC
32 DATA PRESENT IN      0.000000000E+00 NUMERIC
33 DATA PRESENT IN      0.000000000E+00 NUMERIC
34 DATA PRESENT IN      0.000000000E+00 NUMERIC
35 DATA PRESENT IN      0.000000000E+00 NUMERIC
36 DATA PRESENT IN      0.000000000E+00 NUMERIC
37 DATA PRESENT IN      0.000000000E+00 NUMERIC
38 IDENTIFICATION        0.980000000E+02 CODE TABLE 1031
39 GENERATING APPL      0.100000000E+01 CODE TABLE 1032
40 % CONFIDENCE          0.700000000E+02 NUMERIC
41 % CONFIDENCE          0.700000000E+02 NUMERIC
42 % CONFIDENCE          0.700000000E+02 NUMERIC
43 % CONFIDENCE          0.700000000E+02 NUMERIC
44 % CONFIDENCE          0.700000000E+02 NUMERIC
45 % CONFIDENCE          0.700000000E+02 NUMERIC
46 % CONFIDENCE          0.700000000E+02 NUMERIC
47 % CONFIDENCE          0.890000000E+02 NUMERIC
48 % CONFIDENCE          0.890000000E+02 NUMERIC
49 % CONFIDENCE          0.700000000E+02 NUMERIC
50 % CONFIDENCE          0.790000000E+02 NUMERIC
51 % CONFIDENCE          0.700000000E+02 NUMERIC
52 % CONFIDENCE          0.700000000E+02 NUMERIC
53 % CONFIDENCE          0.700000000E+02 NUMERIC
54 % CONFIDENCE          0.700000000E+02 NUMERIC
55 % CONFIDENCE          0.700000000E+02 NUMERIC
56 % CONFIDENCE          0.700000000E+02 NUMERIC
57 % CONFIDENCE          0.700000000E+02 NUMERIC
```




3.28 ACAR data

RDB type 7, subtype 145

```

          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 238
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE          0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER          0
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                4
BUFR MESSAGE SUBTYPE            145
VERSION NUMBER OF LOCAL TABLE  1
YEAR                             1
MONTH                            2
DAY                              1
HOUR                             9
MINUTE                           1
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   7
RDB DATA SUBTYPE                145
YEAR                             2001
MONTH                            2
DAY                              1
HOUR                             9
MINUTE                           1
SECOND                           0
LATITUDE 1                       38.40
LONGITUDE 1                      -86.58
IDENTIFIER                       3FRBEERA
TOTAL BUFR MESSAGE LENGTH        238
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             9
MINUTE (RDB INSERTION)           15
SECOND (RDB INSERTION)           53
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               9
MINUTE (MDB ARRIVAL)             14
SECOND (MDB ARRIVAL)             34
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      78
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

1 001006
2 001008

```

3 002061
4 002062
5 002002
6 002005
7 002070
8 002063
9 002001
10 004001
11 004002
12 004003
13 004004
14 004005
15 005002
16 006002
17 008004
18 007004
19 008021
20 011001
21 011002
22 011031
23 011034
24 011035
25 012001
26 012003
27 013003
28 020041
29 222000
30 101028
31 031031
32 001031
33 001201
34 101028
35 033007

DATA DESCRIPTORS (EXPANDED)

1 001006 AIRCRAFT FLIGHT NUMBER
2 001008 AIRCRAFT REGISTRATION NUMBER
3 002061 AIRCRAFT NAVIGATIONAL SYSTEM
4 002062 TYPE OF AIRCRAFT DATA RELAY SYSTEM
5 002002 TYPE OF INSTRUMENTATION FOR WIND MEASUREMENT
6 002005 PRECISION OF TEMPERATURE OBSERVATION
7 002070 ORIGINAL SPECIFICATION OF LATITUDE/LONGITUDE
8 002063 AIRCRAFT ROLL ANGLE
9 002001 TYPE OF STATION
10 004001 YEAR
11 004002 MONTH
12 004003 DAY
13 004004 HOUR
14 004005 MINUTE
15 005002 LATITUDE (COARSE ACCURACY)
16 006002 LONGITUDE (COARSE ACCURACY)
17 008004 PHASE OF AIRCRAFT FLIGHT
18 007004 PRESSURE
19 008021 TIME SIGNIFICANCE
20 011001 WIND DIRECTION
21 011002 WIND SPEED
22 011031 DEGREE OF TURBULENCE
23 011034 VERTICAL GUST VELOCITY
24 011035 VERTICAL GUST ACCELERATION
25 012001 TEMPERATURE/DRY BULB TEMPERATURE
26 012003 DEW POINT TEMPERATURE
27 013003 RELATIVE HUMIDITY
28 020041 AIRFRAME ICING
29 222000 QUALITY INFORMATION FOLLOW
30 031031 DATA PRESENT INDICATOR
31 031031 DATA PRESENT INDICATOR
32 031031 DATA PRESENT INDICATOR
33 031031 DATA PRESENT INDICATOR
34 031031 DATA PRESENT INDICATOR
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 031031 DATA PRESENT INDICATOR
45 031031 DATA PRESENT INDICATOR
46 031031 DATA PRESENT INDICATOR
47 031031 DATA PRESENT INDICATOR
48 031031 DATA PRESENT INDICATOR
49 031031 DATA PRESENT INDICATOR
50 031031 DATA PRESENT INDICATOR
51 031031 DATA PRESENT INDICATOR
52 031031 DATA PRESENT INDICATOR
53 031031 DATA PRESENT INDICATOR
54 031031 DATA PRESENT INDICATOR
55 031031 DATA PRESENT INDICATOR
56 031031 DATA PRESENT INDICATOR

```

57 031031 DATA PRESENT INDICATOR
58 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
59 001201 GENERATING APPLICATION
60 033007 % CONFIDENCE
61 033007 % CONFIDENCE
62 033007 % CONFIDENCE
63 033007 % CONFIDENCE
64 033007 % CONFIDENCE
65 033007 % CONFIDENCE
66 033007 % CONFIDENCE
67 033007 % CONFIDENCE
68 033007 % CONFIDENCE
69 033007 % CONFIDENCE
70 033007 % CONFIDENCE
71 033007 % CONFIDENCE
72 033007 % CONFIDENCE
73 033007 % CONFIDENCE
74 033007 % CONFIDENCE
75 033007 % CONFIDENCE
76 033007 % CONFIDENCE
77 033007 % CONFIDENCE
78 033007 % CONFIDENCE
79 033007 % CONFIDENCE
80 033007 % CONFIDENCE
81 033007 % CONFIDENCE
82 033007 % CONFIDENCE
83 033007 % CONFIDENCE
84 033007 % CONFIDENCE
85 033007 % CONFIDENCE
86 033007 % CONFIDENCE
87 033007 % CONFIDENCE
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

1 AIRCRAFT FLIGHT 0.1008000000E+04 CCITTIA5 3FRBEERA
2 AIRCRAFT REGIST 0.2008000000E+04 CCITTIA5 GSWGUUZA
3 AIRCRAFT NAVIGA MISSING CODE TABLE 2061
4 TYPE OF AIRCRAF 0.3000000000E+01 CODE TABLE 2062
5 TYPE OF INSTRUM 0.4000000000E+01 FLAG TABLE 2002
6 PRECISION OF TE 0.2500000000E+00 K
7 ORIGINAL SPECIF 0.1000000000E+01 CODE TABLE 2070
8 AIRCRAFT ROLL A MISSING DEGREE
9 TYPE OF STATION 0.0000000000E+00 CODE TABLE 2001
10 YEAR 0.2001000000E+04 YEAR
11 MONTH 0.2000000000E+01 MONTH
12 DAY 0.1000000000E+01 DAY
13 HOUR 0.9000000000E+01 HOUR
14 MINUTE 0.1000000000E+01 MINUTE
15 LATITUDE (COARS 0.3840000000E+02 DEGREE
16 LONGITUDE (COAR -0.8658000000E+02 DEGREE
17 PHASE OF AIRCRA MISSING CODE TABLE 8004
18 PRESSURE 0.3810000000E+05 PA
19 TIME SIGNIFICAN MISSING CODE TABLE 8021
20 WIND DIRECTION 0.2620000000E+03 DEGREE TRUE
21 WIND SPEED 0.4420000000E+02 M/S
22 DEGREE OF TURBU MISSING CODE TABLE 11031
23 VERTICAL GUST V MISSING M/S
24 VERTICAL GUST A MISSING M/S**2
25 TEMPERATURE/DRY 0.2366000000E+03 K
26 DEW POINT TEMPE MISSING K
27 RELATIVE HUMIDI MISSING %
28 AIRFRAME ICING MISSING CODE TABLE 20041
29 QUALITY INFORMA 0.0000000000E+00
30 DATA PRESENT IN 0.0000000000E+00 NUMERIC
31 DATA PRESENT IN 0.0000000000E+00 NUMERIC
32 DATA PRESENT IN 0.0000000000E+00 NUMERIC
33 DATA PRESENT IN 0.0000000000E+00 NUMERIC
34 DATA PRESENT IN 0.0000000000E+00 NUMERIC
35 DATA PRESENT IN 0.0000000000E+00 NUMERIC
36 DATA PRESENT IN 0.0000000000E+00 NUMERIC
37 DATA PRESENT IN 0.0000000000E+00 NUMERIC
38 DATA PRESENT IN 0.0000000000E+00 NUMERIC
39 DATA PRESENT IN 0.0000000000E+00 NUMERIC
40 DATA PRESENT IN 0.0000000000E+00 NUMERIC
41 DATA PRESENT IN 0.0000000000E+00 NUMERIC
42 DATA PRESENT IN 0.0000000000E+00 NUMERIC
43 DATA PRESENT IN 0.0000000000E+00 NUMERIC
44 DATA PRESENT IN 0.0000000000E+00 NUMERIC
45 DATA PRESENT IN 0.0000000000E+00 NUMERIC
46 DATA PRESENT IN 0.0000000000E+00 NUMERIC
47 DATA PRESENT IN 0.0000000000E+00 NUMERIC
48 DATA PRESENT IN 0.0000000000E+00 NUMERIC
49 DATA PRESENT IN 0.0000000000E+00 NUMERIC
50 DATA PRESENT IN 0.0000000000E+00 NUMERIC
51 DATA PRESENT IN 0.0000000000E+00 NUMERIC
52 DATA PRESENT IN 0.0000000000E+00 NUMERIC
53 DATA PRESENT IN 0.0000000000E+00 NUMERIC
54 DATA PRESENT IN 0.0000000000E+00 NUMERIC
55 DATA PRESENT IN 0.0000000000E+00 NUMERIC
56 DATA PRESENT IN 0.0000000000E+00 NUMERIC
57 DATA PRESENT IN 0.0000000000E+00 NUMERIC
58 IDENTIFICATION 0.9800000000E+02 CODE TABLE 1031
59 GENERATING APPL 0.1000000000E+01 CODE TABLE 1201

```



```
60 % CONFIDENCE      0.7000000000E+02 NUMERIC
61 % CONFIDENCE      0.7000000000E+02 NUMERIC
62 % CONFIDENCE      MISSING NUMERIC
63 % CONFIDENCE      0.7000000000E+02 NUMERIC
64 % CONFIDENCE      0.7000000000E+02 NUMERIC
65 % CONFIDENCE      0.7000000000E+02 NUMERIC
66 % CONFIDENCE      0.7000000000E+02 NUMERIC
67 % CONFIDENCE      MISSING NUMERIC
68 % CONFIDENCE      0.7000000000E+02 NUMERIC
69 % CONFIDENCE      0.7000000000E+02 NUMERIC
70 % CONFIDENCE      0.7000000000E+02 NUMERIC
71 % CONFIDENCE      0.7000000000E+02 NUMERIC
72 % CONFIDENCE      0.7000000000E+02 NUMERIC
73 % CONFIDENCE      0.7000000000E+02 NUMERIC
74 % CONFIDENCE      0.8700000000E+02 NUMERIC
75 % CONFIDENCE      0.8700000000E+02 NUMERIC
76 % CONFIDENCE      MISSING NUMERIC
77 % CONFIDENCE      0.7900000000E+02 NUMERIC
78 % CONFIDENCE      MISSING NUMERIC
79 % CONFIDENCE      0.7000000000E+02 NUMERIC
80 % CONFIDENCE      0.7000000000E+02 NUMERIC
81 % CONFIDENCE      MISSING NUMERIC
82 % CONFIDENCE      MISSING NUMERIC
83 % CONFIDENCE      MISSING NUMERIC
84 % CONFIDENCE      0.7000000000E+02 NUMERIC
85 % CONFIDENCE      MISSING NUMERIC
86 % CONFIDENCE      MISSING NUMERIC
87 % CONFIDENCE      MISSING NUMERIC
```

3.29 Bogus data

RDB type 10, subtype 164

```

          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 154
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)     128
BUFR MESSAGE TYPE                 253
BUFR MESSAGE SUBTYPE             164
VERSION NUMBER OF LOCAL TABLE    1
YEAR                              1
MONTH                             2
DAY                               1
HOUR                             12
MINUTE                            0
VERSION NUMBER OF MASTER TABLE   6
BUFR MASTER TABLE                0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                    10
RDB DATA SUBTYPE                 164
YEAR                             2001
MONTH                             2
DAY                               1
HOUR                             12
MINUTE                            0
SECOND                            0
LATITUDE 1                       -10.00
LONGITUDE 1                       10.00
IDENTIFIER                         PAOB
TOTAL BUFR MESSAGE LENGTH         154
DAY (RDB INSERTION)                1
HOUR (RDB INSERTION)               16
MINUTE (RDB INSERTION)             53
SECOND (RDB INSERTION)             40
DAY (MDB ARRIVAL)                  1
HOUR (MDB ARRIVAL)                 16
MINUTE (MDB ARRIVAL)               50
SECOND (MDB ARRIVAL)               41
CORRECTION NUMBER                  0
PART OF MESSAGE                    1
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
QUALITY CONTROL % CONF             70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)       36
RESERVED                          0
NUMBER OF DATA SUBSETS            1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)

1 301011
2 301012

```

```
3 301021
4 010051
5 007004
6 007004
7 012007
8 222000
9 101011
10 031031
11 001031
12 001032
13 101011
14 033007
```

DATA DESCRIPTORS (EXPANDED)

```
1 004001 YEAR
2 004002 MONTH
3 004003 DAY
4 004004 HOUR
5 004005 MINUTE
6 005001 LATITUDE (HIGH ACCURACY)
7 006001 LONGITUDE (HIGH ACCURACY)
8 010051 PRESSURE REDUCED TO MEAN SEA LEVEL
9 007004 PRESSURE
10 007004 PRESSURE
11 012007 VIRTUAL TEMPERATURE
12 222000 QUALITY INFORMATION FOLLOW
13 031031 DATA PRESENT INDICATOR
14 031031 DATA PRESENT INDICATOR
15 031031 DATA PRESENT INDICATOR
16 031031 DATA PRESENT INDICATOR
17 031031 DATA PRESENT INDICATOR
18 031031 DATA PRESENT INDICATOR
19 031031 DATA PRESENT INDICATOR
20 031031 DATA PRESENT INDICATOR
21 031031 DATA PRESENT INDICATOR
22 031031 DATA PRESENT INDICATOR
23 031031 DATA PRESENT INDICATOR
24 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
25 001032 GENERATING APPLICATION
26 033007 % CONFIDENCE
27 033007 % CONFIDENCE
28 033007 % CONFIDENCE
29 033007 % CONFIDENCE
30 033007 % CONFIDENCE
31 033007 % CONFIDENCE
32 033007 % CONFIDENCE
33 033007 % CONFIDENCE
34 033007 % CONFIDENCE
35 033007 % CONFIDENCE
36 033007 % CONFIDENCE
```

```
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1
```

```
1 YEAR 0.2001000000E+04 YEAR
2 MONTH 0.2000000000E+01 MONTH
3 DAY 0.1000000000E+01 DAY
4 HOUR 0.1200000000E+02 HOUR
5 MINUTE 0.0000000000E+00 MINUTE
6 LATITUDE (HIGH -0.1000000000E+02 DEGREE
7 LONGITUDE (HIGH 0.1000000000E+02 DEGREE
8 PRESSURE REDUCE 0.1012000000E+06 PA
9 PRESSURE 0.1000000000E+06 PA
10 PRESSURE 0.5000000000E+05 PA
11 VIRTUAL TEMPERA 0.3008000000E+03 K
12 QUALITY INFORMA 0.0000000000E+00
13 DATA PRESENT IN 0.0000000000E+00 NUMERIC
14 DATA PRESENT IN 0.0000000000E+00 NUMERIC
15 DATA PRESENT IN 0.0000000000E+00 NUMERIC
16 DATA PRESENT IN 0.0000000000E+00 NUMERIC
17 DATA PRESENT IN 0.0000000000E+00 NUMERIC
18 DATA PRESENT IN 0.0000000000E+00 NUMERIC
19 DATA PRESENT IN 0.0000000000E+00 NUMERIC
20 DATA PRESENT IN 0.0000000000E+00 NUMERIC
21 DATA PRESENT IN 0.0000000000E+00 NUMERIC
22 DATA PRESENT IN 0.0000000000E+00 NUMERIC
23 DATA PRESENT IN 0.0000000000E+00 NUMERIC
24 IDENTIFICATION 0.9800000000E+02 CODE TABLE 1031
25 GENERATING APPL 0.1000000000E+01 CODE TABLE 1032
26 % CONFIDENCE 0.7000000000E+02 NUMERIC
27 % CONFIDENCE 0.7000000000E+02 NUMERIC
28 % CONFIDENCE 0.7000000000E+02 NUMERIC
29 % CONFIDENCE 0.7000000000E+02 NUMERIC
30 % CONFIDENCE 0.7000000000E+02 NUMERIC
31 % CONFIDENCE 0.7000000000E+02 NUMERIC
32 % CONFIDENCE 0.7000000000E+02 NUMERIC
33 % CONFIDENCE 0.7000000000E+02 NUMERIC
34 % CONFIDENCE 0.7000000000E+02 NUMERIC
35 % CONFIDENCE 0.7000000000E+02 NUMERIC
36 % CONFIDENCE 0.7000000000E+02 NUMERIC
```

3.30 RTOVS

RDB type 2, subtype 53

```

ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 3544
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE               0
    ORIGINATING CENTRE                   98
    UPDATE SEQUENCE NUMBER               0
    FLAG (PRESENCE OF SECTION 2)        128
    BUFR MESSAGE TYPE                    3
    BUFR MESSAGE SUBTYPE                 53
    VERSION NUMBER OF LOCAL TABLE       1
    YEAR                                  1
    MONTH                                 2
    DAY                                   14
    HOUR                                  9
    MINUTE                                1
    VERSION NUMBER OF MASTER TABLE      6
    BUFR MASTER TABLE                   0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                   52
    REPORT DATA BASE KEY
    RDB DATA TYPE                        2
    RDB DATA SUBTYPE                     53
    YEAR                                  2001
    MONTH                                 2
    DAY                                   14
    HOUR                                  9
    MINUTE                                1
    SECOND                                 5
    LATITUDE 1                            39.95
    LONGITUDE 1                           84.65
    LATITUDE 2                            58.04
    LONGITUDE 2                           117.27
    NUMBER OF OBSERVATIONS                 52
    IDENTIFIER                             206
    TOTAL BUFR MESSAGE LENGTH             3544
    DAY (RDB INSERTION)                   14
    HOUR (RDB INSERTION)                  10
    MINUTE (RDB INSERTION)                14
    SECOND (RDB INSERTION)                12
    DAY (MDB ARRIVAL)                     14
    HOUR (MDB ARRIVAL)                    10
    MINUTE (MDB ARRIVAL)                  10
    SECOND (MDB ARRIVAL)                  2
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        1
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                     0
    PART OF MESSAGE                        0
    QUALITY CONTROL % CONF                 70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)           96
    RESERVED                               0
    NUMBER OF DATA SUBSETS               52
    FLAG (DATA TYPE/DATA COMPRESSION)    192

DATA DESCRIPTORS (UNEXPANDED)

```

1 001007
2 004001
3 004002
4 004003
5 004004
6 004005
7 004006
8 005002
9 006002
10 007022
11 002025
12 002022
13 027020
14 008003
15 015001
16 008003
17 010004
18 020010
19 008003
20 008012
21 010001
22 012061
23 010004
24 008003
25 103015
26 007004
27 007004
28 012007
29 008003
30 103003
31 007004
32 007004
33 013016
34 008003
35 101019
36 012062
37 201132
38 012062
39 201000
40 101007
41 012062
42 008003
43 010004
44 012001

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 004001 YEAR
3 004002 MONTH
4 004003 DAY
5 004004 HOUR
6 004005 MINUTE
7 004006 SECOND
8 005002 LATITUDE (COARSE ACCURACY)
9 006002 LONGITUDE (COARSE ACCURACY)
10 007022 SOLAR ELEVATION
11 002025 SATELLITE CHANNEL(S) USED IN COMPUTATION
12 002022 SATELLITE DATA PROCESSING TECHNIQUE USED
13 027020 SATELLITE LOCATION COUNTER
14 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
15 015001 OZON
16 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
17 010004 PRESSURE
18 020010 CLOUD COVER (TOTAL)
19 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
20 008012 LAND/SEA QUALIFIER
21 010001 HEIGHT OF LAND SURFACE
22 012061 SKIN TEMPERATURE
23 010004 PRESSURE
24 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
25 007004 PRESSURE
26 007004 PRESSURE
27 012007 VIRTUAL TEMPERATURE
28 007004 PRESSURE
29 007004 PRESSURE
30 012007 VIRTUAL TEMPERATURE
31 007004 PRESSURE
32 007004 PRESSURE
33 012007 VIRTUAL TEMPERATURE
34 007004 PRESSURE
35 007004 PRESSURE
36 012007 VIRTUAL TEMPERATURE
37 007004 PRESSURE
38 007004 PRESSURE
39 012007 VIRTUAL TEMPERATURE
40 007004 PRESSURE
41 007004 PRESSURE
42 012007 VIRTUAL TEMPERATURE
43 007004 PRESSURE
44 007004 PRESSURE
45 012007 VIRTUAL TEMPERATURE


```

46 007004 PRESSURE
47 007004 PRESSURE
48 012007 VIRTUAL TEMPERATURE
49 007004 PRESSURE
50 007004 PRESSURE
51 012007 VIRTUAL TEMPERATURE
52 007004 PRESSURE
53 007004 PRESSURE
54 012007 VIRTUAL TEMPERATURE
55 007004 PRESSURE
56 007004 PRESSURE
57 012007 VIRTUAL TEMPERATURE
58 007004 PRESSURE
59 007004 PRESSURE
60 012007 VIRTUAL TEMPERATURE
61 007004 PRESSURE
62 007004 PRESSURE
63 012007 VIRTUAL TEMPERATURE
64 007004 PRESSURE
65 007004 PRESSURE
66 012007 VIRTUAL TEMPERATURE
67 007004 PRESSURE
68 007004 PRESSURE
69 012007 VIRTUAL TEMPERATURE
70 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
71 007004 PRESSURE
72 007004 PRESSURE
73 013016 PRECIPITABLE WATER
74 007004 PRESSURE
75 007004 PRESSURE
76 013016 PRECIPITABLE WATER
77 007004 PRESSURE
78 007004 PRESSURE
79 013016 PRECIPITABLE WATER
80 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
81 012062 EQUIVALENT BLACK BODY TEMPERATURE
82 012062 EQUIVALENT BLACK BODY TEMPERATURE
83 012062 EQUIVALENT BLACK BODY TEMPERATURE
84 012062 EQUIVALENT BLACK BODY TEMPERATURE
85 012062 EQUIVALENT BLACK BODY TEMPERATURE
86 012062 EQUIVALENT BLACK BODY TEMPERATURE
87 012062 EQUIVALENT BLACK BODY TEMPERATURE
88 012062 EQUIVALENT BLACK BODY TEMPERATURE
89 012062 EQUIVALENT BLACK BODY TEMPERATURE
90 012062 EQUIVALENT BLACK BODY TEMPERATURE
91 012062 EQUIVALENT BLACK BODY TEMPERATURE
92 012062 EQUIVALENT BLACK BODY TEMPERATURE
93 012062 EQUIVALENT BLACK BODY TEMPERATURE
94 012062 EQUIVALENT BLACK BODY TEMPERATURE
95 012062 EQUIVALENT BLACK BODY TEMPERATURE
96 012062 EQUIVALENT BLACK BODY TEMPERATURE
97 012062 EQUIVALENT BLACK BODY TEMPERATURE
98 012062 EQUIVALENT BLACK BODY TEMPERATURE
99 012062 EQUIVALENT BLACK BODY TEMPERATURE
100 012062 EQUIVALENT BLACK BODY TEMPERATURE
101 012062 EQUIVALENT BLACK BODY TEMPERATURE
102 012062 EQUIVALENT BLACK BODY TEMPERATURE
103 012062 EQUIVALENT BLACK BODY TEMPERATURE
104 012062 EQUIVALENT BLACK BODY TEMPERATURE
105 012062 EQUIVALENT BLACK BODY TEMPERATURE
106 012062 EQUIVALENT BLACK BODY TEMPERATURE
107 012062 EQUIVALENT BLACK BODY TEMPERATURE
108 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
109 010004 PRESSURE
110 012001 TEMPERATURE/DRY BULB TEMPERATURE

```

```

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

```

```

1 SATELLITE IDENT      0.2060000000E+03 CODE TABLE 1007
2 YEAR                0.2001000000E+04 YEAR
3 MONTH              0.2000000000E+01 MONTH
4 DAY                0.1400000000E+02 DAY
5 HOUR               0.9000000000E+01 HOUR
6 MINUTE             0.1000000000E+01 MINUTE
7 SECOND            0.5000000000E+01 SECOND
8 LATITUDE (COARS   0.4033000000E+02 DEGREE
9 LONGITUDE (COAR  0.1172700000E+03 DEGREE
10 SOLAR ELEVATION  -0.6980000000E+01 DEGREE
11 SATELLITE CHANN  0.1260879600E+08 FLAG TABLE 2025
12 SATELLITE DATA  0.3200000000E+02 FLAG TABLE 2022
13 SATELLITE LOCAT  0.2205200000E+05 NUMERIC
14 VERTICAL SIGNIF  0.7000000000E+01 CODE TABLE 8003
15 OZON             0.4020000000E+03 DOBSON
16 VERTICAL SIGNIF  0.2000000000E+01 CODE TABLE 8003
17 PRESSURE         MISSING PA
18 CLOUD COVER (TO  0.1000000000E+03 %
19 VERTICAL SIGNIF  0.0000000000E+00 CODE TABLE 8003
20 LAND/SEA QUALIF  0.0000000000E+00 CODE TABLE 8012
21 HEIGHT OF LAND   0.5800000000E+03 M
22 SKIN TEMPERATUR  0.2685000000E+03 K
23 PRESSURE         0.9500000000E+05 PA
24 VERTICAL SIGNIF  0.6000000000E+01 CODE TABLE 8003

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| | | | | |
|-----|-----------------|------------------|------------|------|
| 25 | PRESSURE | 0.9500000000E+05 | PA | |
| 26 | PRESSURE | 0.8500000000E+05 | PA | |
| 27 | VIRTUAL TEMPERA | 0.2670000000E+03 | K | |
| 28 | PRESSURE | 0.8500000000E+05 | PA | |
| 29 | PRESSURE | 0.7000000000E+05 | PA | |
| 30 | VIRTUAL TEMPERA | 0.2576000000E+03 | K | |
| 31 | PRESSURE | 0.7000000000E+05 | PA | |
| 32 | PRESSURE | 0.5000000000E+05 | PA | |
| 33 | VIRTUAL TEMPERA | 0.2459000000E+03 | K | |
| 34 | PRESSURE | 0.5000000000E+05 | PA | |
| 35 | PRESSURE | 0.4000000000E+05 | PA | |
| 36 | VIRTUAL TEMPERA | 0.2361000000E+03 | K | |
| 37 | PRESSURE | 0.4000000000E+05 | PA | |
| 38 | PRESSURE | 0.3000000000E+05 | PA | |
| 39 | VIRTUAL TEMPERA | 0.2261000000E+03 | K | |
| 40 | PRESSURE | 0.3000000000E+05 | PA | |
| 41 | PRESSURE | 0.2000000000E+05 | PA | |
| 42 | VIRTUAL TEMPERA | 0.2182000000E+03 | K | |
| 43 | PRESSURE | 0.2000000000E+05 | PA | |
| 44 | PRESSURE | 0.1000000000E+05 | PA | |
| 45 | VIRTUAL TEMPERA | 0.2173000000E+03 | K | |
| 46 | PRESSURE | 0.1000000000E+05 | PA | |
| 47 | PRESSURE | 0.7000000000E+04 | PA | |
| 48 | VIRTUAL TEMPERA | 0.2136000000E+03 | K | |
| 49 | PRESSURE | 0.7000000000E+04 | PA | |
| 50 | PRESSURE | 0.5000000000E+04 | PA | |
| 51 | VIRTUAL TEMPERA | 0.2153000000E+03 | K | |
| 52 | PRESSURE | 0.5000000000E+04 | PA | |
| 53 | PRESSURE | 0.3000000000E+04 | PA | |
| 54 | VIRTUAL TEMPERA | 0.2194000000E+03 | K | |
| 55 | PRESSURE | 0.3000000000E+04 | PA | |
| 56 | PRESSURE | 0.1000000000E+04 | PA | |
| 57 | VIRTUAL TEMPERA | 0.2283000000E+03 | K | |
| 58 | PRESSURE | 0.1000000000E+04 | PA | |
| 59 | PRESSURE | 0.5000000000E+03 | PA | |
| 60 | VIRTUAL TEMPERA | 0.2350000000E+03 | K | |
| 61 | PRESSURE | 0.5000000000E+03 | PA | |
| 62 | PRESSURE | 0.2000000000E+03 | PA | |
| 63 | VIRTUAL TEMPERA | 0.2476000000E+03 | K | |
| 64 | PRESSURE | 0.2000000000E+03 | PA | |
| 65 | PRESSURE | 0.1000000000E+03 | PA | |
| 66 | VIRTUAL TEMPERA | 0.2549000000E+03 | K | |
| 67 | PRESSURE | 0.1000000000E+03 | PA | |
| 68 | PRESSURE | 0.4000000000E+02 | PA | |
| 69 | VIRTUAL TEMPERA | 0.2478000000E+03 | K | |
| 70 | VERTICAL SIGNIF | 0.4000000000E+01 | CODE TABLE | 8003 |
| 71 | PRESSURE | 0.9500000000E+05 | PA | |
| 72 | PRESSURE | 0.7000000000E+05 | PA | |
| 73 | PRECIPITABLE WA | 0.1000000000E+01 | KG/M**2 | |
| 74 | PRESSURE | 0.7000000000E+05 | PA | |
| 75 | PRESSURE | 0.5000000000E+05 | PA | |
| 76 | PRECIPITABLE WA | 0.1000000000E+01 | KG/M**2 | |
| 77 | PRESSURE | 0.5000000000E+05 | PA | |
| 78 | PRESSURE | 0.3000000000E+05 | PA | |
| 79 | PRECIPITABLE WA | 0.0000000000E+00 | KG/M**2 | |
| 80 | VERTICAL SIGNIF | 0.5000000000E+01 | CODE TABLE | 8003 |
| 81 | EQUIVALENT BLAC | 0.2320000000E+03 | K | |
| 82 | EQUIVALENT BLAC | 0.2232000000E+03 | K | |
| 83 | EQUIVALENT BLAC | 0.2215000000E+03 | K | |
| 84 | EQUIVALENT BLAC | 0.2263000000E+03 | K | |
| 85 | EQUIVALENT BLAC | 0.2353000000E+03 | K | |
| 86 | EQUIVALENT BLAC | 0.2454000000E+03 | K | |
| 87 | EQUIVALENT BLAC | 0.2559000000E+03 | K | |
| 88 | EQUIVALENT BLAC | 0.2685000000E+03 | K | |
| 89 | EQUIVALENT BLAC | 0.2465000000E+03 | K | |
| 90 | EQUIVALENT BLAC | 0.2657000000E+03 | K | |
| 91 | EQUIVALENT BLAC | 0.2518000000E+03 | K | |
| 92 | EQUIVALENT BLAC | 0.2396000000E+03 | K | |
| 93 | EQUIVALENT BLAC | 0.2522000000E+03 | K | |
| 94 | EQUIVALENT BLAC | 0.2458000000E+03 | K | |
| 95 | EQUIVALENT BLAC | 0.2336000000E+03 | K | |
| 96 | EQUIVALENT BLAC | 0.2244000000E+03 | K | |
| 97 | EQUIVALENT BLAC | 0.2619000000E+03 | K | |
| 98 | EQUIVALENT BLAC | 0.2684000000E+03 | K | |
| 99 | EQUIVALENT BLAC | 0.2720000000E+03 | K | |
| 100 | EQUIVALENT BLAC | 0.1292300000E+04 | K | |
| 101 | EQUIVALENT BLAC | 0.2577000000E+03 | K | |
| 102 | EQUIVALENT BLAC | 0.2390000000E+03 | K | |
| 103 | EQUIVALENT BLAC | 0.2220000000E+03 | K | |
| 104 | EQUIVALENT BLAC | 0.2172000000E+03 | K | |
| 105 | EQUIVALENT BLAC | 0.2294000000E+03 | K | |
| 106 | EQUIVALENT BLAC | 0.2374000000E+03 | K | |
| 107 | EQUIVALENT BLAC | 0.2446000000E+03 | K | |
| 108 | VERTICAL SIGNIF | 0.3000000000E+01 | CODE TABLE | 8003 |
| 109 | PRESSURE | 0.2570000000E+05 | PA | |
| 110 | TEMPERATURE/DRY | 0.2168000000E+03 | K | |



3.31 ATOVS data

RDB type 2, subtype 55

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ECMWF

BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 1512
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           0
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 3
BUFR MESSAGE SUBTYPE             55
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              1
MONTH                              2
DAY                               14
HOUR                              3
MINUTE                            1
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE               0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

REPORT DATA BASE KEY

RDB DATA TYPE                   2
RDB DATA SUBTYPE                55
YEAR                             2001
MONTH                             2
DAY                               14
HOUR                              3
MINUTE                            1
SECOND                            1
LATITUDE 1                       -31.17
LONGITUDE 1                      -119.89
LATITUDE 2                       -27.70
LONGITUDE 2                      -99.33
NUMBER OF OBSERVATIONS            30
IDENTIFIER                       205
TOTAL BUFR MESSAGE LENGTH        1512
DAY (RDB INSERTION)              14
HOUR (RDB INSERTION)              4
MINUTE (RDB INSERTION)           3
SECOND (RDB INSERTION)           47
DAY (MDB ARRIVAL)                14
HOUR (MDB ARRIVAL)                4
MINUTE (MDB ARRIVAL)              1
SECOND (MDB ARRIVAL)              7
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      10
RESERVED                          0
NUMBER OF DATA SUBSETS           30
FLAG (DATA TYPE/DATA COMPRESSION) 192

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DATA DESCRIPTORS (UNEXPANDED)

1 310008

DATA DESCRIPTORS (EXPANDED)

1 008070 TOVS/ATOVS PRODUCT QUALIFIER
2 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
3 001034 IDENTIFICATION OF ORIGINATING/GENERATING SUB-CENTRE
4 008070 TOVS/ATOVS PRODUCT QUALIFIER
5 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
6 001034 IDENTIFICATION OF ORIGINATING/GENERATING SUB-CENTRE
7 001007 SATELLITE IDENTIFIER
8 002048 SATELLITE SENSOR INDICATOR
9 005040 ORBIT NUMBER
10 025075 SATELLITE ANTENNA CORRECTIONS VERSION NUMBER
11 005041 SCAN LINE NUMBER
12 005043 FIELD OF VIEW NUMBER
13 025070 MAJOR FRAME COUNT
14 033030 SCAN LINE STATUS FLAGS FOR ATOVS
15 033031 SCAN LINE QUALITY FLAGS FOR ATOVS
16 004001 YEAR
17 004002 MONTH
18 004003 DAY
19 004004 HOUR
20 004005 MINUTE
21 004006 SECOND
22 005001 LATITUDE (HIGH ACCURACY)
23 006001 LONGITUDE (HIGH ACCURACY)
24 007001 HEIGHT OF STATION
25 007024 SATELLITE ZENITH ANGLE
26 005021 BEARING OR AZIMUTH
27 007025 SOLAR ZENITH ANGLE
28 005022 SOLAR AZIMUTH
29 033033 FIELD OF VIEW QUALITY FLAGS FOR ATOVS
30 002151 RADIOMETER IDENTIFIER
31 012064 INSTRUMENT TEMPERATURE
32 002151 RADIOMETER IDENTIFIER
33 012064 INSTRUMENT TEMPERATURE
34 002151 RADIOMETER IDENTIFIER
35 012064 INSTRUMENT TEMPERATURE
36 002151 RADIOMETER IDENTIFIER
37 012064 INSTRUMENT TEMPERATURE
38 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
39 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
40 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
41 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
42 033032 CHANNEL QUALITY FLAGS FOR ATOVS
43 012063 BRIGHTNESS TEMPERATURE
44 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
45 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
46 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
47 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
48 033032 CHANNEL QUALITY FLAGS FOR ATOVS
49 012063 BRIGHTNESS TEMPERATURE
50 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
51 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
52 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
53 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
54 033032 CHANNEL QUALITY FLAGS FOR ATOVS
55 012063 BRIGHTNESS TEMPERATURE
56 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
57 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
58 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
59 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
60 033032 CHANNEL QUALITY FLAGS FOR ATOVS
61 012063 BRIGHTNESS TEMPERATURE
62 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
63 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
64 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
65 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
66 033032 CHANNEL QUALITY FLAGS FOR ATOVS
67 012063 BRIGHTNESS TEMPERATURE
68 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
69 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
70 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
71 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
72 033032 CHANNEL QUALITY FLAGS FOR ATOVS
73 012063 BRIGHTNESS TEMPERATURE
74 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
75 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
76 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
77 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
78 033032 CHANNEL QUALITY FLAGS FOR ATOVS
79 012063 BRIGHTNESS TEMPERATURE
80 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
81 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
82 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
83 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
84 033032 CHANNEL QUALITY FLAGS FOR ATOVS
85 012063 BRIGHTNESS TEMPERATURE
86 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION

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87 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
88 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
89 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
90 033032 CHANNEL QUALITY FLAGS FOR ATOVS
91 012063 BRIGHTNESS TEMPERATURE
92 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
93 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
94 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
95 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
96 033032 CHANNEL QUALITY FLAGS FOR ATOVS
97 012063 BRIGHTNESS TEMPERATURE
98 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
99 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
100 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
101 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
102 033032 CHANNEL QUALITY FLAGS FOR ATOVS
103 012063 BRIGHTNESS TEMPERATURE
104 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
105 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
106 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
107 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
108 033032 CHANNEL QUALITY FLAGS FOR ATOVS
109 012063 BRIGHTNESS TEMPERATURE
110 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
111 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
112 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
113 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
114 033032 CHANNEL QUALITY FLAGS FOR ATOVS
115 012063 BRIGHTNESS TEMPERATURE
116 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
117 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
118 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
119 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
120 033032 CHANNEL QUALITY FLAGS FOR ATOVS
121 012063 BRIGHTNESS TEMPERATURE
122 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
123 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
124 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
125 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
126 033032 CHANNEL QUALITY FLAGS FOR ATOVS
127 012063 BRIGHTNESS TEMPERATURE
128 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
129 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
130 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
131 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
132 033032 CHANNEL QUALITY FLAGS FOR ATOVS
133 012063 BRIGHTNESS TEMPERATURE
134 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
135 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
136 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
137 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
138 033032 CHANNEL QUALITY FLAGS FOR ATOVS
139 012063 BRIGHTNESS TEMPERATURE
140 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
141 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
142 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
143 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
144 033032 CHANNEL QUALITY FLAGS FOR ATOVS
145 012063 BRIGHTNESS TEMPERATURE
146 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
147 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
148 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
149 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
150 033032 CHANNEL QUALITY FLAGS FOR ATOVS
151 012063 BRIGHTNESS TEMPERATURE
152 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
153 025079 ALBEDO-RADIANCE SOLAR FILTERED IRRADIANCE FOR ATOVS
154 025080 ALBEDO-RADIANCE EQUIVALENT FILTER WIDTH FOR ATOVS
155 033032 CHANNEL QUALITY FLAGS FOR ATOVS
156 014045 CHANNEL RADIANCE

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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

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1 TOVS/ATOVS PROD      0.3000000000E+01 CODE TABLE  8070
2 IDENTIFICATION      0.7400000000E+02 CODE TABLE  1033
3 IDENTIFICATION      0.0000000000E+00 CODE TABLE  1034
4 TOVS/ATOVS PROD      0.2000000000E+01 CODE TABLE  8070
5 IDENTIFICATION      0.7400000000E+02 CODE TABLE  1033
6 IDENTIFICATION      0.0000000000E+00 CODE TABLE  1034
7 SATELLITE IDENT     0.2050000000E+03 CODE TABLE  1007
8 SATELLITE SENSO     0.3000000000E+01 CODE TABLE  2048
9 ORBIT NUMBER        0.1432800000E+05 NUMERIC
10 SATELLITE ANTEN     0.0000000000E+00 NUMERIC
11 SCAN LINE NUMBE     0.6540000000E+03 NUMERIC
12 FIELD OF VIEW N     0.1000000000E+01 NUMERIC
13 MAJOR FRAME COU     MISSING NUMERIC
14 SCAN LINE STATU     0.0000000000E+00 FLAG TABLE  33030
15 SCAN LINE QUALI     0.0000000000E+00 FLAG TABLE  33031
16 YEAR                0.2001000000E+04 YEAR
17 MONTH               0.2000000000E+01 MONTH
18 DAY                 0.1400000000E+02 DAY
19 HOUR                0.3000000000E+01 HOUR

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| | | | | |
|-----|-----------------|-------------------|-------------|-------|
| 20 | MINUTE | 0.1000000000E+01 | MINUTE | |
| 21 | SECOND | 0.1734000000E+01 | SECOND | |
| 22 | LATITUDE (HIGH | -0.3116540000E+02 | DEGREE | |
| 23 | LONGITUDE (HIGH | -0.1198909000E+03 | DEGREE | |
| 24 | HEIGHT OF STATI | 0.8190000000E+06 | M | |
| 25 | SATELLITE ZENIT | 0.5748000000E+02 | DEGREE | |
| 26 | BEARING OR AZIM | 0.1925500000E+03 | DEGREE TRUE | |
| 27 | SOLAR ZENITH AN | 0.9317000000E+02 | DEGREE | |
| 28 | SOLAR AZIMUTH | 0.2528600000E+03 | DEGREE TRUE | |
| 29 | FIELD OF VIEW Q | 0.5120000000E+03 | FLAG TABLE | 33033 |
| 30 | RADIOMETER IDEN | 0.0000000000E+00 | CODE TABLE | 2151 |
| 31 | INSTRUMENT TEMP | | MISSING K | |
| 32 | RADIOMETER IDEN | 0.3000000000E+01 | CODE TABLE | 2151 |
| 33 | INSTRUMENT TEMP | 0.1923000000E+03 | K | |
| 34 | RADIOMETER IDEN | 0.4000000000E+01 | CODE TABLE | 2151 |
| 35 | INSTRUMENT TEMP | 0.1654000000E+03 | K | |
| 36 | RADIOMETER IDEN | 0.6000000000E+01 | CODE TABLE | 2151 |
| 37 | INSTRUMENT TEMP | | MISSING K | |
| 38 | TOVS/ATOV/AVHR | 0.2800000000E+02 | CODE TABLE | 2150 |
| 39 | LOG_10 OF (TEMP | 0.1899756480E+01 | LOG (1/M) | |
| 40 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 41 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 42 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 43 | BRIGHTNESS TEMP | 0.2230900000E+03 | K | |
| 44 | TOVS/ATOV/AVHR | 0.2900000000E+02 | CODE TABLE | 2150 |
| 45 | LOG_10 OF (TEMP | 0.2020108960E+01 | LOG (1/M) | |
| 46 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 47 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 48 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 49 | BRIGHTNESS TEMP | 0.1824000000E+03 | K | |
| 50 | TOVS/ATOV/AVHR | 0.3000000000E+02 | CODE TABLE | 2150 |
| 51 | LOG_10 OF (TEMP | 0.2224746880E+01 | LOG (1/M) | |
| 52 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 53 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 54 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 55 | BRIGHTNESS TEMP | 0.2523800000E+03 | K | |
| 56 | TOVS/ATOV/AVHR | 0.3100000000E+02 | CODE TABLE | 2150 |
| 57 | LOG_10 OF (TEMP | 0.2245813120E+01 | LOG (1/M) | |
| 58 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 59 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 60 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 61 | BRIGHTNESS TEMP | 0.2587100000E+03 | K | |
| 62 | TOVS/ATOV/AVHR | 0.3200000000E+02 | CODE TABLE | 2150 |
| 63 | LOG_10 OF (TEMP | 0.2252311680E+01 | LOG (1/M) | |
| 64 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 65 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 66 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 67 | BRIGHTNESS TEMP | 0.2445200000E+03 | K | |
| 68 | TOVS/ATOV/AVHR | 0.3300000000E+02 | CODE TABLE | 2150 |
| 69 | LOG_10 OF (TEMP | 0.2258778080E+01 | LOG (1/M) | |
| 70 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 71 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 72 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 73 | BRIGHTNESS TEMP | 0.2269300000E+03 | K | |
| 74 | TOVS/ATOV/AVHR | 0.3400000000E+02 | CODE TABLE | 2150 |
| 75 | LOG_10 OF (TEMP | 0.2263067680E+01 | LOG (1/M) | |
| 76 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 77 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 78 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 79 | BRIGHTNESS TEMP | 0.2183500000E+03 | K | |
| 80 | TOVS/ATOV/AVHR | 0.3500000000E+02 | CODE TABLE | 2150 |
| 81 | LOG_10 OF (TEMP | 0.2267472320E+01 | LOG (1/M) | |
| 82 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 83 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 84 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 85 | BRIGHTNESS TEMP | 0.2126700000E+03 | K | |
| 86 | TOVS/ATOV/AVHR | 0.3600000000E+02 | CODE TABLE | 2150 |
| 87 | LOG_10 OF (TEMP | 0.2281260800E+01 | LOG (1/M) | |
| 88 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 89 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 90 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 91 | BRIGHTNESS TEMP | 0.2121900000E+03 | K | |
| 92 | TOVS/ATOV/AVHR | 0.3700000000E+02 | CODE TABLE | 2150 |
| 93 | LOG_10 OF (TEMP | 0.2281260800E+01 | LOG (1/M) | |
| 94 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 95 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 96 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 97 | BRIGHTNESS TEMP | 0.2191500000E+03 | K | |
| 98 | TOVS/ATOV/AVHR | 0.3800000000E+02 | CODE TABLE | 2150 |
| 99 | LOG_10 OF (TEMP | 0.2281260800E+01 | LOG (1/M) | |
| 100 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 101 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 102 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 103 | BRIGHTNESS TEMP | 0.2289300000E+03 | K | |
| 104 | TOVS/ATOV/AVHR | 0.3900000000E+02 | CODE TABLE | 2150 |
| 105 | LOG_10 OF (TEMP | 0.2281260800E+01 | LOG (1/M) | |
| 106 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 107 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 108 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 109 | BRIGHTNESS TEMP | 0.2407500000E+03 | K | |
| 110 | TOVS/ATOV/AVHR | 0.4000000000E+02 | CODE TABLE | 2150 |
| 111 | LOG_10 OF (TEMP | 0.2281260800E+01 | LOG (1/M) | |
| 112 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |

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| 113 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 114 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 115 | BRIGHTNESS TEMP | 0.2518600000E+03 | K | |
| 116 | TOVS/ATOVS/AVHR | 0.4100000000E+02 | CODE TABLE | 2150 |
| 117 | LOG_10 OF (TEMP | 0.2281260800E+01 | LOG (1/M) | |
| 118 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 119 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 120 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 121 | BRIGHTNESS TEMP | | MISSING K | |
| 122 | TOVS/ATOVS/AVHR | 0.4200000000E+02 | CODE TABLE | 2150 |
| 123 | LOG_10 OF (TEMP | 0.2472569440E+01 | LOG (1/M) | |
| 124 | BANDWIDTH CORRE | 0.0000000000E+00 | NUMERIC | |
| 125 | BANDWIDTH CORRE | 0.1000000000E+01 | NUMERIC | |
| 126 | CHANNEL QUALITY | 0.0000000000E+00 | FLAG TABLE | 33032 |
| 127 | BRIGHTNESS TEMP | 0.2603200000E+03 | K | |
| 128 | TOVS/ATOVS/AVHR | | MISSING CODE TABLE | 2150 |
| 129 | LOG_10 OF (TEMP | | MISSING LOG (1/M) | |
| 130 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 131 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 132 | CHANNEL QUALITY | | MISSING FLAG TABLE | 33032 |
| 133 | BRIGHTNESS TEMP | | MISSING K | |
| 134 | TOVS/ATOVS/AVHR | | MISSING CODE TABLE | 2150 |
| 135 | LOG_10 OF (TEMP | | MISSING LOG (1/M) | |
| 136 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 137 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 138 | CHANNEL QUALITY | | MISSING FLAG TABLE | 33032 |
| 139 | BRIGHTNESS TEMP | | MISSING K | |
| 140 | TOVS/ATOVS/AVHR | | MISSING CODE TABLE | 2150 |
| 141 | LOG_10 OF (TEMP | | MISSING LOG (1/M) | |
| 142 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 143 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 144 | CHANNEL QUALITY | | MISSING FLAG TABLE | 33032 |
| 145 | BRIGHTNESS TEMP | | MISSING K | |
| 146 | TOVS/ATOVS/AVHR | | MISSING CODE TABLE | 2150 |
| 147 | LOG_10 OF (TEMP | | MISSING LOG (1/M) | |
| 148 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 149 | BANDWIDTH CORRE | | MISSING NUMERIC | |
| 150 | CHANNEL QUALITY | | MISSING FLAG TABLE | 33032 |
| 151 | BRIGHTNESS TEMP | | MISSING K | |
| 152 | TOVS/ATOVS/AVHR | | MISSING CODE TABLE | 2150 |
| 153 | ALBEDO-RADIANCE | | MISSING W/M**2 | |
| 154 | ALBEDO-RADIANCE | | MISSING M | |
| 155 | CHANNEL QUALITY | | MISSING FLAG TABLE | 33032 |
| 156 | CHANNEL RADIANC | | MISSING (W/M**2)*(1/SR)*CM | |

3.32 ERS1/2 Wave scatterometer

RDB type 12, subtype 121

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                                ECMWF
                                BUFR DECODING SOFTWARE VERSION - 6.1
                                25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 602
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE          0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER          0
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE               12
BUFR MESSAGE SUBTYPE            121
VERSION NUMBER OF LOCAL TABLE  1
YEAR                             1
MONTH                             2
DAY                               14
HOUR                              3
MINUTE                            3
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   12
RDB DATA SUBTYPE                121
YEAR                             2001
MONTH                             2
DAY                               14
HOUR                              3
MINUTE                            3
SECOND                           17
LATITUDE 1                       13.13
LONGITUDE 1                      -67.56
LATITUDE 2                       13.13
LONGITUDE 2                      -67.56
NUMBER OF OBSERVATIONS            1
IDENTIFIER                       2
TOTAL BUFR MESSAGE LENGTH        602
DAY (RDB INSERTION)              14
HOUR (RDB INSERTION)             3
MINUTE (RDB INSERTION)           58
SECOND (RDB INSERTION)           1
DAY (MDB ARRIVAL)                14
HOUR (MDB ARRIVAL)               3
MINUTE (MDB ARRIVAL)             53
SECOND (MDB ARRIVAL)             40
CORRECTION NUMBER                0
PART OF MESSAGE                  1
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      54
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 128

    DATA DESCRIPTORS (UNEXPANDED)
```




1 301047
 2 301048
 3 015015
 4 029002
 5 021076
 6 106012
 7 201129
 8 006030
 9 201000
 10 102012
 11 005030
 12 021075
 13 021066
 14 008060
 15 008022
 16 008060
 17 008022
 18 025014
 19 022101
 20 022097
 21 022098
 22 022099
 23 022100

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
 2 025060 SOFTWARE IDENTIFICATION
 3 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
 4 001034 IDENTIFICATION OF ORIGINATING/GENERATING SUB-CENTRE
 5 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
 6 004001 YEAR
 7 004002 MONTH
 8 004003 DAY
 9 004004 HOUR
 10 004005 MINUTE
 11 004006 SECOND
 12 027031 IN DIRECTION OF 0 DEGREES LONGITUDE, DISTANCE FROM THE EARTH'S C
 13 028031 IN DIRECTION OF 90 DEGREES EAST, DISTANCE FROM THE EARTH'S CENTRE
 14 010031 IN DIRECTION OF THE NORTH POLE , DISTANCE FROM THE EARTH CENTRE
 15 001041 ABSOLUTE PLATFORM VELOCITY - FIRST COMPONENT
 16 001042 ABSOLUTE PLATFORM VELOCITY - SECOND COMPONENT
 17 001043 ABSOLUTE PLATFORM VELOCITY - THIRD COMPONENT
 18 002021 SATELLITE INSTRUMENT DATA USED IN PROCESSING
 19 004001 YEAR
 20 004002 MONTH
 21 004003 DAY
 22 004004 HOUR
 23 004005 MINUTE
 24 004006 SECOND
 25 005002 LATITUDE (COARSE ACCURACY)
 26 006002 LONGITUDE (COARSE ACCURACY)
 27 002104 ANTENNA POLARISATION
 28 002121 MEAN FREQUENCY
 29 002113 NUMBER OF AZIMUTH LOOKS
 30 002026 CROSS TRACK RESOLUTION
 31 002027 ALONG TRACK RESOLUTION
 32 002111 RADAR INCIDENCE ANGLE
 33 002140 SATELLITE RADAR BEAM AZIMUTH ANGLE
 34 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
 35 007001 HEIGHT OF STATION
 36 025010 CLUTTER TREATMENT
 37 021064 CLUTTER NOISE ESTIMATE
 38 015015 MAXIMUM IMAGE SPECTRAL COMPONENT BEFORE NORMALIZATION
 39 029002 CO-ORDINATE GRID TYPE
 40 021076 REPRESENTATION OF INTENSITIES
 41 006030 WAVENUMBER (SPECTRAL)
 42 005030 DIRECTION (SPECTRAL)
 43 021075 SPECTRAL INTENSITY
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340 021075 SPECTRAL INTENSITY
341 021066 WAVE SCATTEROMETER PRODUCT CONFIDENCE
342 008060 SAMPLE SCANNING MODE SIGNIFICANCE
343 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
344 008060 SAMPLE SCANNING MODE SIGNIFICANCE



345 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
 346 025014 AZIMUTH CLUTTER CUT-OFF
 347 022101 TOTAL ENERGY (WAVELENGTH > 731 M) AT LOW WAVE NUMBERS
 348 022097 MEAN WAVELENGTH > 731 M OF IMAGE SPECTRUM AT LOW WAVE NUMBERS
 349 022098 WAVELENGTH SPREAD (WAVELENGTH > 731 M) AT LOW WAVE NUMBERS
 350 022099 MEAN DIRECTION AT LOW WAVE NUMBERS (WAVELENGTH > 731 M)
 351 022100 DIRECTION SPREAD AT LOW WAVE NUMBERS (WAVELENGTH > 731 M)

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|-----------------|-------------------|-------------|-------|
| 1 | SATELLITE IDENT | 0.2000000000E+01 | CODE TABLE | 1007 |
| 2 | SOFTWARE INDENT | 0.8070000000E+03 | NUMERIC | |
| 3 | IDENTIFICATION | 0.2100000000E+03 | CODE TABLE | 1033 |
| 4 | IDENTIFICATION | 0.3000000000E+01 | CODE TABLE | 1034 |
| 5 | DIRECTION OF MO | 0.3470000000E+03 | DEGREE TRUE | |
| 6 | YEAR | 0.2001000000E+04 | YEAR | |
| 7 | MONTH | 0.2000000000E+01 | MONTH | |
| 8 | DAY | 0.1400000000E+02 | DAY | |
| 9 | HOUR | 0.2000000000E+01 | HOUR | |
| 10 | MINUTE | 0.5900000000E+02 | MINUTE | |
| 11 | SECOND | 0.4595800000E+02 | SECOND | |
| 12 | IN DIRECTION OF | 0.2753743040E+07 | M | |
| 13 | IN DIRECTION OF | -0.6615605120E+07 | M | |
| 14 | IN DIRECTION OF | 0.9200000000E+00 | m | |
| 15 | ABSOLUTE PLATFO | -0.1508350560E+04 | M/S | |
| 16 | ABSOLUTE PLATFO | -0.6186402400E+03 | M/S | |
| 17 | ABSOLUTE PLATFO | 0.7376936320E+04 | M/S | |
| 18 | SATELLITE INSTR | 0.1600000000E+02 | FLAG TABLE | 2021 |
| 19 | YEAR | 0.2001000000E+04 | YEAR | |
| 20 | MONTH | 0.2000000000E+01 | MONTH | |
| 21 | DAY | 0.1400000000E+02 | DAY | |
| 22 | HOUR | 0.3000000000E+01 | HOUR | |
| 23 | MINUTE | 0.3000000000E+01 | MINUTE | |
| 24 | SECOND | 0.1726500000E+02 | SECOND | |
| 25 | LATITUDE (COARS | 0.1313000000E+02 | DEGREE | |
| 26 | LONGITUDE (COAR | -0.6756000000E+02 | DEGREE | |
| 27 | ANTENNA POLARIS | 0.1000000000E+01 | CODE TABLE | 2104 |
| 28 | MEAN FREQUENCY | 0.5300000000E+10 | Hz | |
| 29 | NUMBER OF AZIMU | 0.3000000000E+01 | NUMERIC | |
| 30 | CROSS TRACK RES | 0.2000000000E+02 | M | |
| 31 | ALONG TRACK RES | 0.1617000000E+02 | M | |
| 32 | RADAR INCIDENCE | 0.2290000000E+02 | DEGREE | |
| 33 | SATELLITE RADAR | 0.2700000000E+03 | DEGREE | |
| 34 | SPEED OF MOTION | 0.6720000000E+04 | M/S | |
| 35 | HEIGHT OF STATI | 0.7868000000E+06 | M | |
| 36 | CLUTTER TREATME | 0.0000000000E+00 | CODE TABLE | 25010 |
| 37 | CLUTTER NOISE E | 0.2000000000E+01 | NUMERIC | |
| 38 | MAXIMUM IMAGE S | 0.3087900000E+05 | NUMERIC | |
| 39 | CO-ORDINATE GRI | 0.0000000000E+00 | CODE TABLE | 29002 |
| 40 | REPRESENTATION | 0.2000000000E+01 | CODE TABLE | 21076 |
| 41 | WAVENUMBER (SPE | 0.9549000000E-01 | RAD/M | |
| 42 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE | |
| 43 | SPECTRAL INTENS | 0.1850000000E+03 | NUMERIC | |
| 44 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE | |
| 45 | SPECTRAL INTENS | 0.1820000000E+03 | NUMERIC | |
| 46 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE | |
| 47 | SPECTRAL INTENS | 0.1880000000E+03 | NUMERIC | |
| 48 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE | |
| 49 | SPECTRAL INTENS | 0.1810000000E+03 | NUMERIC | |
| 50 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE | |
| 51 | SPECTRAL INTENS | 0.1820000000E+03 | NUMERIC | |
| 52 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE | |
| 53 | SPECTRAL INTENS | 0.1830000000E+03 | NUMERIC | |
| 54 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE | |
| 55 | SPECTRAL INTENS | 0.1890000000E+03 | NUMERIC | |
| 56 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE | |
| 57 | SPECTRAL INTENS | 0.1850000000E+03 | NUMERIC | |
| 58 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE | |
| 59 | SPECTRAL INTENS | 0.1810000000E+03 | NUMERIC | |
| 60 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE | |
| 61 | SPECTRAL INTENS | 0.1820000000E+03 | NUMERIC | |
| 62 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE | |
| 63 | SPECTRAL INTENS | 0.1900000000E+03 | NUMERIC | |
| 64 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE | |
| 65 | SPECTRAL INTENS | 0.1880000000E+03 | NUMERIC | |
| 66 | WAVENUMBER (SPE | 0.7746000000E-01 | RAD/M | |
| 67 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE | |
| 68 | SPECTRAL INTENS | 0.1940000000E+03 | NUMERIC | |
| 69 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE | |
| 70 | SPECTRAL INTENS | 0.1920000000E+03 | NUMERIC | |
| 71 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE | |
| 72 | SPECTRAL INTENS | 0.1900000000E+03 | NUMERIC | |
| 73 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE | |
| 74 | SPECTRAL INTENS | 0.1870000000E+03 | NUMERIC | |
| 75 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE | |
| 76 | SPECTRAL INTENS | 0.1790000000E+03 | NUMERIC | |
| 77 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE | |
| 78 | SPECTRAL INTENS | 0.1880000000E+03 | NUMERIC | |
| 79 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE | |
| 80 | SPECTRAL INTENS | 0.1900000000E+03 | NUMERIC | |
| 81 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE | |
| 82 | SPECTRAL INTENS | 0.1830000000E+03 | NUMERIC | |

| | | | |
|-----|-----------------|------------------|---------|
| 83 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE |
| 84 | SPECTRAL INTENS | 0.1890000000E+03 | NUMERIC |
| 85 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE |
| 86 | SPECTRAL INTENS | 0.1900000000E+03 | NUMERIC |
| 87 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE |
| 88 | SPECTRAL INTENS | 0.1960000000E+03 | NUMERIC |
| 89 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE |
| 90 | SPECTRAL INTENS | 0.1890000000E+03 | NUMERIC |
| 91 | WAVENUMBER (SPE | 0.6283000000E-01 | RAD/M |
| 92 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE |
| 93 | SPECTRAL INTENS | 0.1910000000E+03 | NUMERIC |
| 94 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE |
| 95 | SPECTRAL INTENS | 0.1940000000E+03 | NUMERIC |
| 96 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE |
| 97 | SPECTRAL INTENS | 0.1880000000E+03 | NUMERIC |
| 98 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE |
| 99 | SPECTRAL INTENS | 0.1970000000E+03 | NUMERIC |
| 100 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE |
| 101 | SPECTRAL INTENS | 0.1900000000E+03 | NUMERIC |
| 102 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE |
| 103 | SPECTRAL INTENS | 0.1970000000E+03 | NUMERIC |
| 104 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE |
| 105 | SPECTRAL INTENS | 0.2030000000E+03 | NUMERIC |
| 106 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE |
| 107 | SPECTRAL INTENS | 0.1930000000E+03 | NUMERIC |
| 108 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE |
| 109 | SPECTRAL INTENS | 0.1950000000E+03 | NUMERIC |
| 110 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE |
| 111 | SPECTRAL INTENS | 0.1960000000E+03 | NUMERIC |
| 112 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE |
| 113 | SPECTRAL INTENS | 0.1950000000E+03 | NUMERIC |
| 114 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE |
| 115 | SPECTRAL INTENS | 0.1940000000E+03 | NUMERIC |
| 116 | WAVENUMBER (SPE | 0.5097000000E-01 | RAD/M |
| 117 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE |
| 118 | SPECTRAL INTENS | 0.1930000000E+03 | NUMERIC |
| 119 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE |
| 120 | SPECTRAL INTENS | 0.2010000000E+03 | NUMERIC |
| 121 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE |
| 122 | SPECTRAL INTENS | 0.1990000000E+03 | NUMERIC |
| 123 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE |
| 124 | SPECTRAL INTENS | 0.2030000000E+03 | NUMERIC |
| 125 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE |
| 126 | SPECTRAL INTENS | 0.1960000000E+03 | NUMERIC |
| 127 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE |
| 128 | SPECTRAL INTENS | 0.1940000000E+03 | NUMERIC |
| 129 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE |
| 130 | SPECTRAL INTENS | 0.2020000000E+03 | NUMERIC |
| 131 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE |
| 132 | SPECTRAL INTENS | 0.2050000000E+03 | NUMERIC |
| 133 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE |
| 134 | SPECTRAL INTENS | 0.1830000000E+03 | NUMERIC |
| 135 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE |
| 136 | SPECTRAL INTENS | 0.2000000000E+03 | NUMERIC |
| 137 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE |
| 138 | SPECTRAL INTENS | 0.1960000000E+03 | NUMERIC |
| 139 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE |
| 140 | SPECTRAL INTENS | 0.1950000000E+03 | NUMERIC |
| 141 | WAVENUMBER (SPE | 0.4134000000E-01 | RAD/M |
| 142 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE |
| 143 | SPECTRAL INTENS | 0.1970000000E+03 | NUMERIC |
| 144 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE |
| 145 | SPECTRAL INTENS | 0.1940000000E+03 | NUMERIC |
| 146 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE |
| 147 | SPECTRAL INTENS | 0.2080000000E+03 | NUMERIC |
| 148 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE |
| 149 | SPECTRAL INTENS | 0.2020000000E+03 | NUMERIC |
| 150 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE |
| 151 | SPECTRAL INTENS | 0.2070000000E+03 | NUMERIC |
| 152 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE |
| 153 | SPECTRAL INTENS | 0.2010000000E+03 | NUMERIC |
| 154 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE |
| 155 | SPECTRAL INTENS | 0.1940000000E+03 | NUMERIC |
| 156 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE |
| 157 | SPECTRAL INTENS | 0.2010000000E+03 | NUMERIC |
| 158 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE |
| 159 | SPECTRAL INTENS | 0.1970000000E+03 | NUMERIC |
| 160 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE |
| 161 | SPECTRAL INTENS | 0.1980000000E+03 | NUMERIC |
| 162 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE |
| 163 | SPECTRAL INTENS | 0.1900000000E+03 | NUMERIC |
| 164 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE |
| 165 | SPECTRAL INTENS | 0.2020000000E+03 | NUMERIC |
| 166 | WAVENUMBER (SPE | 0.3353000000E-01 | RAD/M |
| 167 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE |
| 168 | SPECTRAL INTENS | 0.2060000000E+03 | NUMERIC |
| 169 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE |
| 170 | SPECTRAL INTENS | 0.1930000000E+03 | NUMERIC |
| 171 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE |
| 172 | SPECTRAL INTENS | 0.2160000000E+03 | NUMERIC |
| 173 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE |
| 174 | SPECTRAL INTENS | 0.1900000000E+03 | NUMERIC |
| 175 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE |

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176 SPECTRAL INTENS 0.2030000000E+03 NUMERIC
177 DIRECTION (SPEC 0.8300000000E+02 DEGREE
178 SPECTRAL INTENS 0.2110000000E+03 NUMERIC
179 DIRECTION (SPEC 0.9800000000E+02 DEGREE
180 SPECTRAL INTENS 0.2060000000E+03 NUMERIC
181 DIRECTION (SPEC 0.1130000000E+03 DEGREE
182 SPECTRAL INTENS 0.2010000000E+03 NUMERIC
183 DIRECTION (SPEC 0.1280000000E+03 DEGREE
184 SPECTRAL INTENS 0.1960000000E+03 NUMERIC
185 DIRECTION (SPEC 0.1430000000E+03 DEGREE
186 SPECTRAL INTENS 0.2180000000E+03 NUMERIC
187 DIRECTION (SPEC 0.1580000000E+03 DEGREE
188 SPECTRAL INTENS 0.1960000000E+03 NUMERIC
189 DIRECTION (SPEC 0.1730000000E+03 DEGREE
190 SPECTRAL INTENS 0.2110000000E+03 NUMERIC
191 WAVENUMBER (SPE 0.2720000000E-01 RAD/M
192 DIRECTION (SPEC 0.8000000000E+01 DEGREE
193 SPECTRAL INTENS 0.2220000000E+03 NUMERIC
194 DIRECTION (SPEC 0.2300000000E+02 DEGREE
195 SPECTRAL INTENS 0.2010000000E+03 NUMERIC
196 DIRECTION (SPEC 0.3800000000E+02 DEGREE
197 SPECTRAL INTENS 0.2090000000E+03 NUMERIC
198 DIRECTION (SPEC 0.5300000000E+02 DEGREE
199 SPECTRAL INTENS 0.2060000000E+03 NUMERIC
200 DIRECTION (SPEC 0.6800000000E+02 DEGREE
201 SPECTRAL INTENS 0.2150000000E+03 NUMERIC
202 DIRECTION (SPEC 0.8300000000E+02 DEGREE
203 SPECTRAL INTENS 0.2090000000E+03 NUMERIC
204 DIRECTION (SPEC 0.9800000000E+02 DEGREE
205 SPECTRAL INTENS 0.2260000000E+03 NUMERIC
206 DIRECTION (SPEC 0.1130000000E+03 DEGREE
207 SPECTRAL INTENS 0.2040000000E+03 NUMERIC
208 DIRECTION (SPEC 0.1280000000E+03 DEGREE
209 SPECTRAL INTENS 0.2200000000E+03 NUMERIC
210 DIRECTION (SPEC 0.1430000000E+03 DEGREE
211 SPECTRAL INTENS 0.2140000000E+03 NUMERIC
212 DIRECTION (SPEC 0.1580000000E+03 DEGREE
213 SPECTRAL INTENS 0.2050000000E+03 NUMERIC
214 DIRECTION (SPEC 0.1730000000E+03 DEGREE
215 SPECTRAL INTENS 0.2110000000E+03 NUMERIC
216 WAVENUMBER (SPE 0.2206000000E-01 RAD/M
217 DIRECTION (SPEC 0.8000000000E+01 DEGREE
218 SPECTRAL INTENS 0.2160000000E+03 NUMERIC
219 DIRECTION (SPEC 0.2300000000E+02 DEGREE
220 SPECTRAL INTENS 0.2220000000E+03 NUMERIC
221 DIRECTION (SPEC 0.3800000000E+02 DEGREE
222 SPECTRAL INTENS 0.1980000000E+03 NUMERIC
223 DIRECTION (SPEC 0.5300000000E+02 DEGREE
224 SPECTRAL INTENS 0.2210000000E+03 NUMERIC
225 DIRECTION (SPEC 0.6800000000E+02 DEGREE
226 SPECTRAL INTENS 0.2290000000E+03 NUMERIC
227 DIRECTION (SPEC 0.8300000000E+02 DEGREE
228 SPECTRAL INTENS 0.1930000000E+03 NUMERIC
229 DIRECTION (SPEC 0.9800000000E+02 DEGREE
230 SPECTRAL INTENS 0.1890000000E+03 NUMERIC
231 DIRECTION (SPEC 0.1130000000E+03 DEGREE
232 SPECTRAL INTENS 0.1930000000E+03 NUMERIC
233 DIRECTION (SPEC 0.1280000000E+03 DEGREE
234 SPECTRAL INTENS 0.2270000000E+03 NUMERIC
235 DIRECTION (SPEC 0.1430000000E+03 DEGREE
236 SPECTRAL INTENS 0.2260000000E+03 NUMERIC
237 DIRECTION (SPEC 0.1580000000E+03 DEGREE
238 SPECTRAL INTENS 0.2350000000E+03 NUMERIC
239 DIRECTION (SPEC 0.1730000000E+03 DEGREE
240 SPECTRAL INTENS 0.2140000000E+03 NUMERIC
241 WAVENUMBER (SPE 0.1789000000E-01 RAD/M
242 DIRECTION (SPEC 0.8000000000E+01 DEGREE
243 SPECTRAL INTENS 0.2130000000E+03 NUMERIC
244 DIRECTION (SPEC 0.2300000000E+02 DEGREE
245 SPECTRAL INTENS 0.2160000000E+03 NUMERIC
246 DIRECTION (SPEC 0.3800000000E+02 DEGREE
247 SPECTRAL INTENS 0.2350000000E+03 NUMERIC
248 DIRECTION (SPEC 0.5300000000E+02 DEGREE
249 SPECTRAL INTENS 0.2180000000E+03 NUMERIC
250 DIRECTION (SPEC 0.6800000000E+02 DEGREE
251 SPECTRAL INTENS 0.2160000000E+03 NUMERIC
252 DIRECTION (SPEC 0.8300000000E+02 DEGREE
253 SPECTRAL INTENS 0.1880000000E+03 NUMERIC
254 DIRECTION (SPEC 0.9800000000E+02 DEGREE
255 SPECTRAL INTENS 0.2080000000E+03 NUMERIC
256 DIRECTION (SPEC 0.1130000000E+03 DEGREE
257 SPECTRAL INTENS 0.2210000000E+03 NUMERIC
258 DIRECTION (SPEC 0.1280000000E+03 DEGREE
259 SPECTRAL INTENS 0.2280000000E+03 NUMERIC
260 DIRECTION (SPEC 0.1430000000E+03 DEGREE
261 SPECTRAL INTENS 0.2210000000E+03 NUMERIC
262 DIRECTION (SPEC 0.1580000000E+03 DEGREE
263 SPECTRAL INTENS 0.2100000000E+03 NUMERIC
264 DIRECTION (SPEC 0.1730000000E+03 DEGREE
265 SPECTRAL INTENS 0.2090000000E+03 NUMERIC
266 WAVENUMBER (SPE 0.1451000000E-01 RAD/M
267 DIRECTION (SPEC 0.8000000000E+01 DEGREE
268 SPECTRAL INTENS 0.2290000000E+03 NUMERIC
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| | | | | |
|-----|------------------|------------------|-------------|-------|
| 269 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE | |
| 270 | SPECTRAL INTENS | 0.2070000000E+03 | NUMERIC | |
| 271 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE | |
| 272 | SPECTRAL INTENS | 0.2380000000E+03 | NUMERIC | |
| 273 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE | |
| 274 | SPECTRAL INTENS | 0.1980000000E+03 | NUMERIC | |
| 275 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE | |
| 276 | SPECTRAL INTENS | 0.2040000000E+03 | NUMERIC | |
| 277 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE | |
| 278 | SPECTRAL INTENS | 0.1860000000E+03 | NUMERIC | |
| 279 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE | |
| 280 | SPECTRAL INTENS | 0.2020000000E+03 | NUMERIC | |
| 281 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE | |
| 282 | SPECTRAL INTENS | 0.2170000000E+03 | NUMERIC | |
| 283 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE | |
| 284 | SPECTRAL INTENS | 0.2310000000E+03 | NUMERIC | |
| 285 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE | |
| 286 | SPECTRAL INTENS | 0.2140000000E+03 | NUMERIC | |
| 287 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE | |
| 288 | SPECTRAL INTENS | 0.1880000000E+03 | NUMERIC | |
| 289 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE | |
| 290 | SPECTRAL INTENS | 0.2250000000E+03 | NUMERIC | |
| 291 | WAVENUMBER (SPE | 0.1177000000E-01 | RAD/M | |
| 292 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE | |
| 293 | SPECTRAL INTENS | 0.2170000000E+03 | NUMERIC | |
| 294 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE | |
| 295 | SPECTRAL INTENS | 0.2330000000E+03 | NUMERIC | |
| 296 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE | |
| 297 | SPECTRAL INTENS | 0.2090000000E+03 | NUMERIC | |
| 298 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE | |
| 299 | SPECTRAL INTENS | 0.2200000000E+03 | NUMERIC | |
| 300 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE | |
| 301 | SPECTRAL INTENS | 0.2040000000E+03 | NUMERIC | |
| 302 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE | |
| 303 | SPECTRAL INTENS | 0.2000000000E+03 | NUMERIC | |
| 304 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE | |
| 305 | SPECTRAL INTENS | 0.2100000000E+03 | NUMERIC | |
| 306 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE | |
| 307 | SPECTRAL INTENS | 0.2400000000E+03 | NUMERIC | |
| 308 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE | |
| 309 | SPECTRAL INTENS | 0.2020000000E+03 | NUMERIC | |
| 310 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE | |
| 311 | SPECTRAL INTENS | 0.1950000000E+03 | NUMERIC | |
| 312 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE | |
| 313 | SPECTRAL INTENS | 0.2060000000E+03 | NUMERIC | |
| 314 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE | |
| 315 | SPECTRAL INTENS | 0.2250000000E+03 | NUMERIC | |
| 316 | WAVENUMBER (SPE | 0.9550000000E-02 | RAD/M | |
| 317 | DIRECTION (SPEC | 0.8000000000E+01 | DEGREE | |
| 318 | SPECTRAL INTENS | 0.2460000000E+03 | NUMERIC | |
| 319 | DIRECTION (SPEC | 0.2300000000E+02 | DEGREE | |
| 320 | SPECTRAL INTENS | 0.2270000000E+03 | NUMERIC | |
| 321 | DIRECTION (SPEC | 0.3800000000E+02 | DEGREE | |
| 322 | SPECTRAL INTENS | 0.2270000000E+03 | NUMERIC | |
| 323 | DIRECTION (SPEC | 0.5300000000E+02 | DEGREE | |
| 324 | SPECTRAL INTENS | 0.2540000000E+03 | NUMERIC | |
| 325 | DIRECTION (SPEC | 0.6800000000E+02 | DEGREE | |
| 326 | SPECTRAL INTENS | 0.2190000000E+03 | NUMERIC | |
| 327 | DIRECTION (SPEC | 0.8300000000E+02 | DEGREE | |
| 328 | SPECTRAL INTENS | 0.2020000000E+03 | NUMERIC | |
| 329 | DIRECTION (SPEC | 0.9800000000E+02 | DEGREE | |
| 330 | SPECTRAL INTENS | 0.2170000000E+03 | NUMERIC | |
| 331 | DIRECTION (SPEC | 0.1130000000E+03 | DEGREE | |
| 332 | SPECTRAL INTENS | 0.1950000000E+03 | NUMERIC | |
| 333 | DIRECTION (SPEC | 0.1280000000E+03 | DEGREE | |
| 334 | SPECTRAL INTENS | 0.2430000000E+03 | NUMERIC | |
| 335 | DIRECTION (SPEC | 0.1430000000E+03 | DEGREE | |
| 336 | SPECTRAL INTENS | 0.2310000000E+03 | NUMERIC | |
| 337 | DIRECTION (SPEC | 0.1580000000E+03 | DEGREE | |
| 338 | SPECTRAL INTENS | 0.1730000000E+03 | NUMERIC | |
| 339 | DIRECTION (SPEC | 0.1730000000E+03 | DEGREE | |
| 340 | SPECTRAL INTENS | 0.2280000000E+03 | NUMERIC | |
| 341 | WAVE SCATTEROME | 0.1088000000E+04 | FLAG TABLE | 21066 |
| 342 | SAMPLE SCANNING | 0.1000000000E+01 | CODE TABLE | 8060 |
| 343 | TOTAL NUMBER (WI | 0.5120000000E+03 | NUMERIC | |
| 344 | SAMPLE SCANNING | 0.2000000000E+01 | CODE TABLE | 8060 |
| 345 | TOTAL NUMBER (WI | 0.3050000000E+03 | NUMERIC | |
| 346 | AZIMUTH CLUTTER | 0.2500000000E+03 | NUMERIC | |
| 347 | TOTAL ENERGY (W | 0.1085428700E+08 | NUMERIC | |
| 348 | MEAN WAVELENGTH | 0.4586000000E+04 | M | |
| 349 | WAVELENGTH SPRE | 0.2010000000E+04 | M | |
| 350 | MEAN DIRECTION | 0.2690000000E+03 | DEGREE TRUE | |
| 351 | DIRECTION SPREA | 0.4200000000E+02 | DEGREE | |



3.33 ERS1/2 Radar Altimeter

RDB type 12, subtype 123

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ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
    25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)          8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 1894
BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)          18
BUFR EDITION NUMBER                  3
ORIGINATING SUB-CENTRE                0
ORIGINATING CENTRE                   98
UPDATE SEQUENCE NUMBER                0
FLAG (PRESENCE OF SECTION 2)         128
BUFR MESSAGE TYPE                    12
BUFR MESSAGE SUBTYPE                 123
VERSION NUMBER OF LOCAL TABLE        1
YEAR                                  1
MONTH                                 2
DAY                                   14
HOUR                                  3
MINUTE                                2
VERSION NUMBER OF MASTER TABLE        6
BUFR MASTER TABLE                   0
1
    BUFR SECTION 2

LENGTH OF SECTION 2                   52

REPORT DATA BASE KEY

RDB DATA TYPE                        12
RDB DATA SUBTYPE                     123
YEAR                                  2001
MONTH                                  2
DAY                                   14
HOUR                                  3
MINUTE                                2
SECOND                                28
LATITUDE 1                            9.67
LONGITUDE 1                           -70.55
LATITUDE 2                            14.14
LONGITUDE 2                           -69.54
NUMBER OF OBSERVATIONS                 77
IDENTIFIER                             2
TOTAL BUFR MESSAGE LENGTH              1894
DAY (RDB INSERTION)                   14
HOUR (RDB INSERTION)                  3
MINUTE (RDB INSERTION)                 58
SECOND (RDB INSERTION)                 3
DAY (MDB ARRIVAL)                     14
HOUR (MDB ARRIVAL)                    3
MINUTE (MDB ARRIVAL)                   53
SECOND (MDB ARRIVAL)                   40
CORRECTION NUMBER                      0
PART OF MESSAGE                        1
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
CORRECTION NUMBER                      0
PART OF MESSAGE                        0
QUALITY CONTROL % CONF                 70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)           10
RESERVED                              0
NUMBER OF DATA SUBSETS                77
FLAG (DATA TYPE/DATA COMPRESSION)     192

DATA DESCRIPTORS (UNEXPANDED)

```

1 312210

DATA DESCRIPTORS (EXPANDED)

```
1 001007 SATELLITE IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 002021 SATELLITE INSTRUMENT DATA USED IN PROCESSING
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 004006 SECOND
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
13 011012 WIND SPEED AT 10 M
14 011050 STANDARD DEVIATION OF HORIZONTAL WIND SPEED
15 022021 HEIGHT OF WAVES
16 022243 STANDARD DEVIATION SIGNIFICANT WAVE HEIGHT
17 007001 HEIGHT OF STATION
18 010050 STANDARD DEVIATION ALTITUDE
19 021198 URA PRODUCT CONFIDENCE
20 021201 PEAKINESS
21 021202 ALTIMETER CALIBRATION STATUS
22 021203 ALTIMETER INSTRUMENT MODE
23 021207 ALTITUDE CORRECTION (IONOSPHERE)
24 021208 ALTITUDE CORRECTION (DRY TROPOSPHERE)
25 021209 ALTITUDE CORRECTION (WET TROPOSPHERE)
26 021210 ALTITUDE CORRECTION (CALIBRATION CONSTANT)
27 021211 OPEN LOOP CORRECTION (HTL)
28 021212 OPEN LOOP CORRECTION (AGC)
29 021192 RADAR BACK SCATTER
30 015202 INTEGRATED ELECTRON DENSITY
31 004001 YEAR
32 004002 MONTH
33 004003 DAY
34 004004 HOUR
35 004005 MINUTE
36 004006 SECOND
37 005217 LOCATION OF PLATFORM, X
38 006217 LOCATION OF PLATFORM, Y
39 007217 LOCATION OF PLATFORM, Z
40 001208 VELOCITY OF PLATFORM, X
41 001209 VELOCITY OF PLATFORM, Y
42 001210 VELOCITY OF PLATFORM, Z
```

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

```
1 SATELLITE IDENT 0.2000000000E+01 CODE TABLE 1007
2 DIRECTION OF MO 0.3470000000E+03 DEGREE TRUE
3 SATELLITE INSTR 0.6400000000E+02 FLAG TABLE 2021
4 YEAR 0.2001000000E+04 YEAR
5 MONTH 0.2000000000E+01 MONTH
6 DAY 0.1400000000E+02 DAY
7 HOUR 0.3000000000E+01 HOUR
8 MINUTE 0.2000000000E+01 MINUTE
9 SECOND 0.2892400000E+02 SECOND
10 LATITUDE (COARS 0.9670000000E+01 DEGREE
11 LONGITUDE (COAR -0.6954000000E+02 DEGREE
12 TOTAL NUMBER (WI 0.0000000000E+00 NUMERIC
13 WIND SPEED AT 1 0.0000000000E+00 M/S
14 STANDARD DEVIAT 0.0000000000E+00 M/S
15 HEIGHT OF WAVES 0.0000000000E+00 M
16 STANDARD DEVIAT 0.0000000000E+00 M
17 HEIGHT OF STATI 0.0000000000E+00 M
18 STANDARD DEVIAT 0.0000000000E+00 M
19 URA PRODUCT CON 0.0000000000E+00 FLAG TABLE 21198
20 PEAKINESS 0.0000000000E+00 NUMERIC
21 ALTIMETER CALIB 0.0000000000E+00 FLAG TABLE 21202
22 ALTIMETER INSTR 0.6400000000E+02 FLAG TABLE 21203
23 ALTITUDE CORREC 0.0000000000E+00 M
24 ALTITUDE CORREC 0.0000000000E+00 M
25 LTITUDE CORRECT MISSING M
26 ALTITUDE CORREC 0.0000000000E+00 M
27 OPEN LOOP CORRE 0.0000000000E+00 M
28 OPEN LOOP CORRE 0.0000000000E+00 dB
29 RADAR BACK SCAT 0.0000000000E+00 dB
30 INTEGRATED ELEC MISSING 1/M**2
31 YEAR 0.2001000000E+04 YEAR
32 MONTH 0.2000000000E+01 MONTH
33 DAY 0.1400000000E+02 DAY
34 HOUR 0.2000000000E+01 HOUR
35 MINUTE 0.5900000000E+02 MINUTE
36 SECOND 0.4595800000E+02 SECOND
37 LOCATION OF PLA 0.2753743040E+07 M
38 LOCATION OF PLA -0.6615605120E+07 M
39 LOCATION OF PLA 0.9200000000E+00 M
40 VELOCITY OF PLA -0.1508350560E+04 M/S
41 VELOCITY OF PLA -0.6186402400E+03 M/S
```



42 VELOCITY OF PLA 0.7376936320E+04 M/S

3.34 SSMI brightness temperatures

RDB type 12, subtype 127

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
  BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)      8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 2656
    BUFR EDITION NUMBER              3
1
  BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)      18
    BUFR EDITION NUMBER              3
    ORIGINATING SUB-CENTRE           0
    ORIGINATING CENTRE               98
    UPDATE SEQUENCE NUMBER           1
    FLAG (PRESENCE OF SECTION 2)     128
    BUFR MESSAGE TYPE                12
    BUFR MESSAGE SUBTYPE             127
    VERSION NUMBER OF LOCAL TABLE   1
    YEAR                              1
    MONTH                             2
    DAY                               14
    HOUR                              10
    MINUTE                            9
    VERSION NUMBER OF MASTER TABLE  6
    BUFR MASTER TABLE               0
1
  BUFR SECTION 2
    LENGTH OF SECTION 2              52
    REPORT DATA BASE KEY
    RDB DATA TYPE                   12
    RDB DATA SUBTYPE                127
    YEAR                             2001
    MONTH                            2
    DAY                               14
    HOUR                              10
    MINUTE                            9
    SECOND                           30
    LATITUDE 1                       63.26
    LONGITUDE 1                      85.14
    LATITUDE 2                       69.70
    LONGITUDE 2                      85.14
    NUMBER OF OBSERVATIONS            64
    IDENTIFIER                        246
    TOTAL BUFR MESSAGE LENGTH        2656
    DAY (RDB INSERTION)              14
    HOUR (RDB INSERTION)             12
    MINUTE (RDB INSERTION)           36
    SECOND (RDB INSERTION)           33
    DAY (MDB ARRIVAL)                14
    HOUR (MDB ARRIVAL)               12
    MINUTE (MDB ARRIVAL)             33
    SECOND (MDB ARRIVAL)             18
    CORRECTION NUMBER                0
    PART OF MESSAGE                   1
    CORRECTION NUMBER                0
    PART OF MESSAGE                   0
    CORRECTION NUMBER                0
    PART OF MESSAGE                   0
    CORRECTION NUMBER                0
    PART OF MESSAGE                   0
    CORRECTION NUMBER                0
    PART OF MESSAGE                   0
    QUALITY CONTROL % CONF           70
1
  BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)      132
    RESERVED                          0
    NUMBER OF DATA SUBSETS           64
    FLAG (DATA TYPE/DATA COMPRESSION) 192

DATA DESCRIPTORS (UNEXPANDED)
```



1 001007
 2 005040
 3 201132
 4 005041
 5 030193
 6 201000
 7 004001
 8 004002
 9 004003
 10 004004
 11 004005
 12 004006
 13 005001
 14 006001
 15 013202
 16 008003
 17 012063
 18 012063
 19 012063
 20 012063
 21 012063
 22 012063
 23 012063
 24 005001
 25 006001
 26 013202
 27 008003
 28 012063
 29 012063
 30 005001
 31 006001
 32 013202
 33 008003
 34 012063
 35 012063
 36 005001
 37 006001
 38 013202
 39 008003
 40 012063
 41 012063
 42 008193
 43 026193
 44 026194
 45 026195
 46 026196
 47 026197
 48 026198
 49 008193
 50 026193
 51 026194
 52 026195
 53 026196
 54 026197
 55 026198
 56 008193
 57 026193
 58 026194
 59 026195
 60 026196
 61 026197
 62 026198

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
 2 005040 ORBIT NUMBER
 3 005041 SCAN LINE NUMBER
 4 030193 POSITION NUMBER ALONG SCAN
 5 004001 YEAR
 6 004002 MONTH
 7 004003 DAY
 8 004004 HOUR
 9 004005 MINUTE
 10 004006 SECOND
 11 005001 LATITUDE (HIGH ACCURACY)
 12 006001 LONGITUDE (HIGH ACCURACY)
 13 013202 TYPE OF SURFACE
 14 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
 15 012063 BRIGHTNESS TEMPERATURE
 16 012063 BRIGHTNESS TEMPERATURE
 17 012063 BRIGHTNESS TEMPERATURE
 18 012063 BRIGHTNESS TEMPERATURE
 19 012063 BRIGHTNESS TEMPERATURE
 20 012063 BRIGHTNESS TEMPERATURE
 21 012063 BRIGHTNESS TEMPERATURE
 22 005001 LATITUDE (HIGH ACCURACY)
 23 006001 LONGITUDE (HIGH ACCURACY)
 24 013202 TYPE OF SURFACE
 25 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
 26 012063 BRIGHTNESS TEMPERATURE
 27 012063 BRIGHTNESS TEMPERATURE

```
28 005001 LATITUDE (HIGH ACCURACY)
29 006001 LONGITUDE (HIGH ACCURACY)
30 013202 TYPE OF SURFACE
31 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
32 012063 BRIGHTNESS TEMPERATURE
33 012063 BRIGHTNESS TEMPERATURE
34 005001 LATITUDE (HIGH ACCURACY)
35 006001 LONGITUDE (HIGH ACCURACY)
36 013202 TYPE OF SURFACE
37 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
38 012063 BRIGHTNESS TEMPERATURE
39 012063 BRIGHTNESS TEMPERATURE
40 008193 TIME QUALIFIER
41 026193 YEAR
42 026194 MONTH
43 026195 DAY
44 026196 HOUR
45 026197 MINUTE
46 026198 SECOND
47 008193 TIME QUALIFIER
48 026193 YEAR
49 026194 MONTH
50 026195 DAY
51 026196 HOUR
52 026197 MINUTE
53 026198 SECOND
54 008193 TIME QUALIFIER
55 026193 YEAR
56 026194 MONTH
57 026195 DAY
58 026196 HOUR
59 026197 MINUTE
60 026198 SECOND
```

```
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1
```

```
1 SATELLITE IDENT      0.2460000000E+03 CODE TABLE  1007
2 ORBIT NUMBER        0.3041700000E+05 NUMERIC
3 SCAN LINE NUMBE     0.1000000000E+01 NUMERIC
4 POSITION NUMBER       0.1000000000E+01 NUMERIC
5 YEAR                0.2001000000E+04 YEAR
6 MONTH              0.2000000000E+01 MONTH
7 DAY                0.1400000000E+02 DAY
8 HOUR               0.1000000000E+02 HOUR
9 MINUTE             0.9000000000E+01 MINUTE
10 SECOND            0.3000000000E+02 SECOND
11 LATITUDE (HIGH    0.6326000000E+02 DEGREE
12 LONGITUDE (HIGH   0.8514000000E+02 DEGREE
13 TYPE OF SURFACE   0.0000000000E+00 CODE TABLE  13202
14 VERTICAL SIGNIF   0.5000000000E+01 CODE TABLE  8003
15 BRIGHTNESS TEMP   0.2440000000E+03 K
16 BRIGHTNESS TEMP   0.2376000000E+03 K
17 BRIGHTNESS TEMP   0.2399000000E+03 K
18 BRIGHTNESS TEMP   0.2196000000E+03 K
19 BRIGHTNESS TEMP   0.2159000000E+03 K
20 BRIGHTNESS TEMP   0.2240000000E+03 K
21 BRIGHTNESS TEMP   0.2197000000E+03 K
22 LATITUDE (HIGH    0.6335000000E+02 DEGREE
23 LONGITUDE (HIGH   0.8499000000E+02 DEGREE
24 TYPE OF SURFACE   0.0000000000E+00 CODE TABLE  13202
25 VERTICAL SIGNIF   0.5000000000E+01 CODE TABLE  8003
26 BRIGHTNESS TEMP   0.2234000000E+03 K
27 BRIGHTNESS TEMP   0.2188000000E+03 K
28 LATITUDE (HIGH    0.6338000000E+02 DEGREE
29 LONGITUDE (HIGH   0.8516000000E+02 DEGREE
30 TYPE OF SURFACE   0.0000000000E+00 CODE TABLE  13202
31 VERTICAL SIGNIF   0.5000000000E+01 CODE TABLE  8003
32 BRIGHTNESS TEMP   0.2226000000E+03 K
33 BRIGHTNESS TEMP   0.2174000000E+03 K
34 LATITUDE (HIGH    0.6347000000E+02 DEGREE
35 LONGITUDE (HIGH   0.8502000000E+02 DEGREE
36 TYPE OF SURFACE   0.0000000000E+00 CODE TABLE  13202
37 VERTICAL SIGNIF   0.5000000000E+01 CODE TABLE  8003
38 BRIGHTNESS TEMP   0.2151000000E+03 K
39 BRIGHTNESS TEMP   0.2099000000E+03 K
40 TIME QUALIFIER     0.0000000000E+00 CODE TABLE  8193
41 YEAR              0.2001000000E+04 YEAR
42 MONTH            0.2000000000E+01 MONTH
43 DAY              0.1400000000E+02 DAY
44 HOUR             0.1000000000E+02 HOUR
45 MINUTE           0.9000000000E+01 MINUTE
46 SECOND           0.3000000000E+02 SECOND
47 TIME QUALIFIER     0.1000000000E+01 CODE TABLE  8193
48 YEAR              0.2001000000E+04 YEAR
49 MONTH            0.2000000000E+01 MONTH
50 DAY              0.1400000000E+02 DAY
51 HOUR             0.1100000000E+02 HOUR
52 MINUTE           0.5300000000E+02 MINUTE
53 SECOND           0.3000000000E+02 SECOND
54 TIME QUALIFIER     0.2000000000E+01 CODE TABLE  8193
55 YEAR              0.2001000000E+04 YEAR
56 MONTH            0.2000000000E+01 MONTH
```



57 DAY 0.1400000000E+02 DAY
58 HOUR 0.1100000000E+02 HOUR
59 MINUTE 0.3300000000E+02 MINUTE
60 SECOND 0.4100000000E+02 SECOND

3.35 TRMR rain data

RDB type 2, subtype 130

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000140/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 1092
BUFR EDITION NUMBER             3
1
    BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER             3
ORIGINATING SUB-CENTRE          0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER          1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                3
BUFR MESSAGE SUBTYPE            130
VERSION NUMBER OF LOCAL TABLE  1
YEAR                             1
MONTH                             2
DAY                               14
HOUR                             9
MINUTE                            1
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2
LENGTH OF SECTION 2              52
    REPORT DATA BASE KEY
RDB DATA TYPE                   2
RDB DATA SUBTYPE                130
YEAR                             2001
MONTH                             2
DAY                               14
HOUR                             9
MINUTE                            1
SECOND                            1
LATITUDE 1                       2.02
LONGITUDE 1                      75.20
LATITUDE 2                       7.63
LONGITUDE 2                      75.20
NUMBER OF OBSERVATIONS            208
IDENTIFIER                       1022
TOTAL BUFR MESSAGE LENGTH        1092
DAY (RDB INSERTION)              14
HOUR (RDB INSERTION)             10
MINUTE (RDB INSERTION)           46
SECOND (RDB INSERTION)           38
DAY (MDB ARRIVAL)                14
HOUR (MDB ARRIVAL)               10
MINUTE (MDB ARRIVAL)             42
SECOND (MDB ARRIVAL)             28
CORRECTION NUMBER                 0
PART OF MESSAGE                   1
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      56
RESERVED                          0
NUMBER OF DATA SUBSETS          208
FLAG (DATA TYPE/DATA COMPRESSION) 192

DATA DESCRIPTORS (UNEXPANDED)
```




1 001007
 2 005040
 3 201133
 4 005041
 5 201000
 6 030193
 7 004001
 8 004002
 9 004003
 10 004004
 11 004005
 12 004006
 13 005002
 14 006002
 15 201132
 16 007001
 17 201000
 18 013202
 19 013209
 20 013208
 21 202130
 22 013205
 23 202000
 24 013206

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
 2 005040 ORBIT NUMBER
 3 005041 SCAN LINE NUMBER
 4 030193 POSITION NUMBER ALONG SCAN
 5 004001 YEAR
 6 004002 MONTH
 7 004003 DAY
 8 004004 HOUR
 9 004005 MINUTE
 10 004006 SECOND
 11 005002 LATITUDE (COARSE ACCURACY)
 12 006002 LONGITUDE (COARSE ACCURACY)
 13 007001 HEIGHT OF STATION
 14 013202 TYPE OF SURFACE
 15 013209 RAIN POSSIBILITY
 16 013208 SURFACE RAIN RATE (INSTANTANEOUS)
 17 013205 CLOUD LIQUID WATER PATH
 18 013206 TOTAL PRECIPITATION ICE CONTENT

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | | |
|----|-----------------|-------------------|--------------------|-------|
| 1 | SATELLITE IDENT | 0.1022000000E+04 | CODE TABLE | 1007 |
| 2 | ORBIT NUMBER | | MISSING NUMERIC | |
| 3 | SCAN LINE NUMBE | 0.1663000000E+04 | NUMERIC | |
| 4 | POSITION NUMBER | 0.1000000000E+01 | NUMERIC | |
| 5 | YEAR | 0.2001000000E+04 | YEAR | |
| 6 | MONTH | 0.2000000000E+01 | MONTH | |
| 7 | DAY | 0.1400000000E+02 | DAY | |
| 8 | HOUR | 0.9000000000E+01 | HOUR | |
| 9 | MINUTE | 0.1000000000E+01 | MINUTE | |
| 10 | SECOND | 0.1000000000E+01 | SECOND | |
| 11 | LATITUDE (COARS | 0.7580000000E+01 | DEGREE | |
| 12 | LONGITUDE (COAR | 0.7520000000E+02 | DEGREE | |
| 13 | HEIGHT OF STATI | 0.3500000000E+06 | M | |
| 14 | TYPE OF SURFACE | | MISSING CODE TABLE | 13202 |
| 15 | RAIN POSSIBILIT | -0.8000000000E+01 | NUMERIC | |
| 16 | SURFACE RAIN RA | 0.0000000000E+00 | KG/M**2*S | |
| 17 | CLOUD LIQUID WA | 0.0000000000E+00 | KG/M**2 | |
| 18 | TOTAL PRECIPITA | 0.0000000000E+00 | KG/M**2 | |

3.36 Soil temperatures

RDB type 1, subtype 7

```

      BUFR SECTION 0
Length of section 0 (bytes)      8
Total length of Bufr message (bytes) 172
Bufr Edition number            3
1
      BUFR SECTION 1
Length of section 1 (bytes)      18
Bufr Edition number            3
Originating sub-centre         0
Originating centre             98
Update sequence number         1
Flag (presence of section 2)   128
Bufr message type              0
Bufr message subtype           7
Version number of local table  1
Year                           1
Month                           2
Day                             14
Hour                            0
Minute                          0
Version number of Master table  6
Bufr Master table              0
1
      BUFR SECTION 2
Length of section 2              52

      Report Data Base Key
RDB data type                   1
RDB data subtype                7
Year                           2001
Month                           2
Day                             14
Hour                            0
Minute                          0
Second                          0
Latitude 1                      48.57
Longitude 1                     14.00
Identifier                      11008
Total Bufr message length       172
Day (RDB insertion)             14
Hour (RDB insertion)            0
Minute (RDB insertion)          7
Second (RDB insertion)          19
Day (MDB arrival)               14
Hour (MDB arrival)              0
Minute (MDB arrival)            3
Second (MDB arrival)            42
Correction number                0
Part of message                  1
Correction number                0
Part of message                  0
Correction number                0
Part of message                  0
Correction number                0
Part of message                  0
Correction number                0
Part of message                  0
Quality control % conf          70
1
      BUFR SECTION 3
Length of section 3 (bytes)      30
Reserved                        0
Number of data subsets          1
Flag (data type/data compression) 128

      Data descriptors (unexpanded)
1  301031
2  102005
3  007061
4  012030
5  222000
6  101021
7  031031
8  001031
9  001201
10 101021
11 033007
```

Data descriptors (expanded)

```

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 002001 TYPE OF STATION
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 007001 HEIGHT OF STATION
12 007061 DEPTH BELOW LAND SURFACE
13 012030 SOIL TEMPERATURE
14 007061 DEPTH BELOW LAND SURFACE
15 012030 SOIL TEMPERATURE
16 007061 DEPTH BELOW LAND SURFACE
17 012030 SOIL TEMPERATURE
18 007061 DEPTH BELOW LAND SURFACE
19 012030 SOIL TEMPERATURE
20 007061 DEPTH BELOW LAND SURFACE
21 012030 SOIL TEMPERATURE
22 222000 QUALITY INFORMATION FOLLOW
23 031031 DATA PRESENT INDICATOR
24 031031 DATA PRESENT INDICATOR
25 031031 DATA PRESENT INDICATOR
26 031031 DATA PRESENT INDICATOR
27 031031 DATA PRESENT INDICATOR
28 031031 DATA PRESENT INDICATOR
29 031031 DATA PRESENT INDICATOR
30 031031 DATA PRESENT INDICATOR
31 031031 DATA PRESENT INDICATOR
32 031031 DATA PRESENT INDICATOR
33 031031 DATA PRESENT INDICATOR
34 031031 DATA PRESENT INDICATOR
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 031031 DATA PRESENT INDICATOR
40 031031 DATA PRESENT INDICATOR
41 031031 DATA PRESENT INDICATOR
42 031031 DATA PRESENT INDICATOR
43 031031 DATA PRESENT INDICATOR
44 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
45 001201 GENERATING APPLICATION
46 033007 % CONFIDENCE
47 033007 % CONFIDENCE
48 033007 % CONFIDENCE
49 033007 % CONFIDENCE
50 033007 % CONFIDENCE
51 033007 % CONFIDENCE
52 033007 % CONFIDENCE
53 033007 % CONFIDENCE
54 033007 % CONFIDENCE
55 033007 % CONFIDENCE
56 033007 % CONFIDENCE
57 033007 % CONFIDENCE
58 033007 % CONFIDENCE
59 033007 % CONFIDENCE
60 033007 % CONFIDENCE
61 033007 % CONFIDENCE
62 033007 % CONFIDENCE
63 033007 % CONFIDENCE
64 033007 % CONFIDENCE
65 033007 % CONFIDENCE
66 033007 % CONFIDENCE

```

BUFR SECTION 4 (DATA), SUBSET 1

```

1 WMO BLOCK NUMBE      11.0000 NUMERIC
2 WMO STATION NUM      8.0000 NUMERIC
3 TYPE OF STATION      1.0000 CODE TABLE  2001
4 YEAR                 2001.0000 YEAR
5 MONTH                2.0000 MONTH
6 DAY                  14.0000 DAY
7 HOUR                 .0000 HOUR
8 MINUTE               .0000 MINUTE
9 LATITUDE (HIGH      48.5700 DEGREE
10 LONGITUDE (HIGH    14.0000 DEGREE
11 HEIGHT OF STATI    602.0000 M
12 DEPTH BELOW LAN    .1000 M
13 SOIL TEMPERATUR    MISSING K
14 DEPTH BELOW LAN    .2000 M
15 SOIL TEMPERATUR    MISSING K
16 DEPTH BELOW LAN    .5000 M
17 SOIL TEMPERATUR    MISSING K
18 DEPTH BELOW LAN    MISSING M
19 SOIL TEMPERATUR    MISSING K
20 DEPTH BELOW LAN    MISSING M
21 SOIL TEMPERATUR    MISSING K

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| | | | | |
|----|-----------------|---------|------------|------|
| 22 | QUALITY INFORMA | .0000 | | |
| 23 | DATA PRESENT IN | .0000 | NUMERIC | |
| 24 | DATA PRESENT IN | .0000 | NUMERIC | |
| 25 | DATA PRESENT IN | .0000 | NUMERIC | |
| 26 | DATA PRESENT IN | .0000 | NUMERIC | |
| 27 | DATA PRESENT IN | .0000 | NUMERIC | |
| 28 | DATA PRESENT IN | .0000 | NUMERIC | |
| 29 | DATA PRESENT IN | .0000 | NUMERIC | |
| 30 | DATA PRESENT IN | .0000 | NUMERIC | |
| 31 | DATA PRESENT IN | .0000 | NUMERIC | |
| 32 | DATA PRESENT IN | .0000 | NUMERIC | |
| 33 | DATA PRESENT IN | .0000 | NUMERIC | |
| 34 | DATA PRESENT IN | .0000 | NUMERIC | |
| 35 | DATA PRESENT IN | .0000 | NUMERIC | |
| 36 | DATA PRESENT IN | .0000 | NUMERIC | |
| 37 | DATA PRESENT IN | .0000 | NUMERIC | |
| 38 | DATA PRESENT IN | .0000 | NUMERIC | |
| 39 | DATA PRESENT IN | .0000 | NUMERIC | |
| 40 | DATA PRESENT IN | .0000 | NUMERIC | |
| 41 | DATA PRESENT IN | .0000 | NUMERIC | |
| 42 | DATA PRESENT IN | .0000 | NUMERIC | |
| 43 | DATA PRESENT IN | .0000 | NUMERIC | |
| 44 | IDENTIFICATION | 98.0000 | CODE TABLE | 1031 |
| 45 | GENERATING APPL | 1.0000 | CODE TABLE | 1201 |
| 46 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 47 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 48 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 49 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 50 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 51 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 52 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 53 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 54 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 55 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 56 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 57 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 58 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 59 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 60 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 61 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 62 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 63 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 64 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 65 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 66 | % CONFIDENCE | 70.0000 | NUMERIC | |

3.37 Tropical storm data

RDB type 8, subtype 31

```

          BUFR SECTION 0
Length of section 0 (bytes)      8
Total length of Bufr message (bytes) 190
Bufr Edition number            3
1
          BUFR SECTION 1
Length of section 1 (bytes)      18
Bufr Edition number            3
Originating sub-centre         0
Originating centre             98
Update sequence number         0
Flag (presence of section 2)   128
Bufr message type              7
Bufr message subtype           31
Version number of local table  1
Year                           1
Month                           2
Day                             12
Hour                            12
Minute                          0
Version number of Master table  6
Bufr Master table              0
1
          BUFR SECTION 2
Length of section 2             52
          Report Data Base Key
RDB data type                  8
RDB data subtype               31
Year                           2001
Month                           2
Day                             12
Hour                            12
Minute                          0
Second                          0
Latitude 1                      -14.61
Longitude 1                     110.80
Latitude 2                      -14.61
Longitude 2                     110.80
Number of observations          1
Identifier                      0
Total Bufr message length      190
Day (RDB insertion)            12
Hour (RDB insertion)           12
Minute (RDB insertion)         25
Second (RDB insertion)         1
Day (MDB arrival)              12
Hour (MDB arrival)             12
Minute (MDB arrival)           22
Second (MDB arrival)           39
Correction number               0
Part of message                 1
Correction number               0
Part of message                 0
Correction number               0
Part of message                 0
Correction number               0
Part of message                 0
Quality control % conf         70
1
          BUFR SECTION 3
Length of section 3 (bytes)      48
Reserved                        0
Number of data subsets          1
Flag (data type/data compression) 128

          Data descriptors (unexpanded)
1 001031
2 001025
3 001026
4 301011
5 301012
6 301023
7 002041
8 019001
9 201130
10 019002

```

11 201000
 12 019005
 13 019006
 14 008005
 15 010004
 16 104004
 17 005021
 18 005021
 19 019003
 20 019009

Data descriptors (expanded)

1 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
 2 001025 STORM IDENTIFIER
 3 001026 WMO STORM NAME
 4 004001 YEAR
 5 004002 MONTH
 6 004003 DAY
 7 004004 HOUR
 8 004005 MINUTE
 9 005002 LATITUDE (COARSE ACCURACY)
 10 006002 LONGITUDE (COARSE ACCURACY)
 11 002041 METHOD FOR ESTIMATING REPORTS RELATED TO SYNOPTIC FEATURES
 12 019001 TYPE OF SYNOPTIC FEATURE
 13 019002 EFFECTIVE RADIUS OF FEATURE
 14 019005 DIRECTION OF MOTION OF FEATURE
 15 019006 SPEED OF MOTION OF FEATURE
 16 008005 METEOROLOGICAL ATTRIBUTE SIGNIFICANCE
 17 010004 PRESSURE
 18 005021 BEARING OR AZIMUTH
 19 005021 BEARING OR AZIMUTH
 20 019003 WIND SPEED THRESHOLD
 21 019009 EFFECTIVE RADIUS WITH RESPECT TOWIND SPEEDS ABOVE TRESHOLD
 22 005021 BEARING OR AZIMUTH
 23 005021 BEARING OR AZIMUTH
 24 019003 WIND SPEED THRESHOLD
 25 019009 EFFECTIVE RADIUS WITH RESPECT TOWIND SPEEDS ABOVE TRESHOLD
 26 005021 BEARING OR AZIMUTH
 27 005021 BEARING OR AZIMUTH
 28 019003 WIND SPEED THRESHOLD
 29 019009 EFFECTIVE RADIUS WITH RESPECT TOWIND SPEEDS ABOVE TRESHOLD
 30 005021 BEARING OR AZIMUTH
 31 005021 BEARING OR AZIMUTH
 32 019003 WIND SPEED THRESHOLD
 33 019009 EFFECTIVE RADIUS WITH RESPECT TOWIND SPEEDS ABOVE TRESHOLD

| | | | | | |
|----|-----------------|-------------|-------------|-------|---------|
| 1 | IDENTIFICATION | 65.0000 | CODE TABLE | 1031 | |
| 2 | STORM IDENTIFIE | 1003.0000 | CCITTIA5 | | 04U |
| 3 | WMO STORM NAME | 2008.0000 | CCITTIA5 | | VINCENT |
| 4 | YEAR | 2001.0000 | YEAR | | |
| 5 | MONTH | 2.0000 | MONTH | | |
| 6 | DAY | 12.0000 | DAY | | |
| 7 | HOUR | 12.0000 | HOUR | | |
| 8 | MINUTE | .0000 | MINUTE | | |
| 9 | LATITUDE (COARS | -14.6100 | DEGREE | | |
| 10 | LONGITUDE (COAR | 110.8000 | DEGREE | | |
| 11 | METHOD FOR ESTI | .0000 | CODE TABLE | 2041 | |
| 12 | TYPE OF SYNOPTI | 2.0000 | CODE TABLE | 19001 | |
| 13 | EFFECTIVE RADIU | 400000.0000 | M | | |
| 14 | DIRECTION OF MO | 360.0000 | DEGREE TRUE | | |
| 15 | SPEED OF MOTION | 1.5000 | M/S | | |
| 16 | METEOROLOGICAL | 1.0000 | CODE TABLE | 8005 | |
| 17 | PRESSURE | 98600.0000 | PA | | |
| 18 | BEARING OR AZIM | .0000 | DEGREE TRUE | | |
| 19 | BEARING OR AZIM | 90.0000 | DEGREE TRUE | | |
| 20 | WIND SPEED THRE | 15.0000 | M/S | | |
| 21 | EFFECTIVE RADIU | 400000.0000 | M | | |
| 22 | BEARING OR AZIM | 90.0000 | DEGREE TRUE | | |
| 23 | BEARING OR AZIM | 180.0000 | DEGREE TRUE | | |
| 24 | WIND SPEED THRE | 15.0000 | M/S | | |
| 25 | EFFECTIVE RADIU | 120000.0000 | M | | |
| 26 | BEARING OR AZIM | 180.0000 | DEGREE TRUE | | |
| 27 | BEARING OR AZIM | 270.0000 | DEGREE TRUE | | |
| 28 | WIND SPEED THRE | 15.0000 | M/S | | |
| 29 | EFFECTIVE RADIU | 120000.0000 | M | | |
| 30 | BEARING OR AZIM | 270.0000 | DEGREE TRUE | | |
| 31 | BEARING OR AZIM | .0000 | DEGREE TRUE | | |
| 32 | WIND SPEED THRE | 15.0000 | M/S | | |
| 33 | EFFECTIVE RADIU | 400000.0000 | M | | |



3.38 ATOVS 1C Ecmwf calibrated

RDB type 2, subtype 54

BUFR Tables to be loaded B0000980601,D0000980601

```

1
  BUFR SECTION 0

  Length of section 0 (bytes)      8
  Total length of Bufr message (bytes) 2278
  Bufr Edition number             3
1
  BUFR SECTION 1

  Length of section 1 (bytes)      18
  Bufr Edition number             3
  Originating sub-centre          0
  Originating centre              98
  Update sequence number          0
  Flag (presence of section 2)    128
  Bufr message type               3
  Bufr message subtype            54
  Version number of local table    1
  Year                             1
  Month                             2
  Day                               11
  Hour                              8
  Minute                           59
  Version number of Master table   6
  Bufr Master table                0
1
  BUFR SECTION 2

  Length of section 2             52

  Report Data Base Key

  RDB data type                   2
  RDB data subtype                54
  Year                           2001
  Month                           2
  Day                             11
  Hour                             8
  Minute                           59
  Second                           56
  Latitude 1                       -86.30
  Longitude 1                      -150.74
  Latitude 2                       -70.42
  Longitude 2                      -129.04
  Number of observations           48
  Identifier                       206
  Total Bufr message length       2278
  Day (RDB insertion)              11
  Hour (RDB insertion)             12
  Minute (RDB insertion)           32
  Second (RDB insertion)           4
  Day (MDB arrival)                11
  Hour (MDB arrival)               12
  Minute (MDB arrival)             30
  Second (MDB arrival)             42
  Correction number                 0
  Part of message                  1
  Correction number                 0
  Part of message                  0
  Correction number                 0
  Part of message                  0
  Correction number                 0
  Part of message                  0
  Correction number                 0
  Part of message                  0
  Quality control % conf           70
1
  BUFR SECTION 3

  Length of section 3 (bytes)      10
  Reserved                          0
  Number of data subsets           48
  Flag (data type/data compression) 192

  Data descriptors (unexpanded)

  1 310008

  Data descriptors (expanded)

  1 008070 TOVS/ATOVS PRODUCT QUALIFIER
  2 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
  3 001034 IDENTIFICATION OF ORIGINATING/GENERATING SUB-CENTRE

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4 008070 TOVS/ATOVS PRODUCT QUALIFIER
5 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
6 001034 IDENTIFICATION OF ORIGINATING/GENERATING SUB-CENTRE
7 001007 SATELLITE IDENTIFIER
8 002048 SATELLITE SENSOR INDICATOR
9 005040 ORBIT NUMBER
10 025075 SATELLITE ANTENNA CORRECTIONS VERSION NUMBER
11 005041 SCAN LINE NUMBER
12 005043 FIELD OF VIEW NUMBER
13 025070 MAJOR FRAME COUNT
14 033030 SCAN LINE STATUS FLAGS FOR ATOVS
15 033031 SCAN LINE QUALITY FLAGS FOR ATOVS
16 004001 YEAR
17 004002 MONTH
18 004003 DAY
19 004004 HOUR
20 004005 MINUTE
21 004006 SECOND
22 005001 LATITUDE (HIGH ACCURACY)
23 006001 LONGITUDE (HIGH ACCURACY)
24 007001 HEIGHT OF STATION
25 007024 SATELLITE ZENITH ANGLE
26 005021 BEARING OR AZIMUTH
27 007025 SOLAR ZENITH ANGLE
28 005022 SOLAR AZIMUTH
29 033033 FIELD OF VIEW QUALITY FLAGS FOR ATOVS
30 002151 RADIOMETER IDENTIFIER
31 012064 INSTRUMENT TEMPERATURE
32 002151 RADIOMETER IDENTIFIER
33 012064 INSTRUMENT TEMPERATURE
34 002151 RADIOMETER IDENTIFIER
35 012064 INSTRUMENT TEMPERATURE
36 002151 RADIOMETER IDENTIFIER
37 012064 INSTRUMENT TEMPERATURE
38 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
39 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
40 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
41 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
42 033032 CHANNEL QUALITY FLAGS FOR ATOVS
43 012063 BRIGHTNESS TEMPERATURE
44 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
45 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
46 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
47 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
48 033032 CHANNEL QUALITY FLAGS FOR ATOVS
49 012063 BRIGHTNESS TEMPERATURE
50 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
51 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
52 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
53 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
54 033032 CHANNEL QUALITY FLAGS FOR ATOVS
55 012063 BRIGHTNESS TEMPERATURE
56 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
57 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
58 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
59 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
60 033032 CHANNEL QUALITY FLAGS FOR ATOVS
61 012063 BRIGHTNESS TEMPERATURE
62 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
63 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
64 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
65 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
66 033032 CHANNEL QUALITY FLAGS FOR ATOVS
67 012063 BRIGHTNESS TEMPERATURE
68 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
69 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
70 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
71 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
72 033032 CHANNEL QUALITY FLAGS FOR ATOVS
73 012063 BRIGHTNESS TEMPERATURE
74 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
75 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
76 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
77 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
78 033032 CHANNEL QUALITY FLAGS FOR ATOVS
79 012063 BRIGHTNESS TEMPERATURE
80 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
81 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
82 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
83 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
84 033032 CHANNEL QUALITY FLAGS FOR ATOVS
85 012063 BRIGHTNESS TEMPERATURE
86 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
87 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
88 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
89 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
90 033032 CHANNEL QUALITY FLAGS FOR ATOVS
91 012063 BRIGHTNESS TEMPERATURE
92 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
93 025076 LOG₁₀ OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
94 025077 BANDWIDTH CORRECTION COEFFICIENT 1 FOR ATOVS
95 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
96 033032 CHANNEL QUALITY FLAGS FOR ATOVS


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97 012063 BRIGHTNESS TEMPERATURE
98 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
99 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
100 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
101 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
102 033032 CHANNEL QUALITY FLAGS FOR ATOVS
103 012063 BRIGHTNESS TEMPERATURE
104 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
105 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
106 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
107 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
108 033032 CHANNEL QUALITY FLAGS FOR ATOVS
109 012063 BRIGHTNESS TEMPERATURE
110 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
111 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
112 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
113 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
114 033032 CHANNEL QUALITY FLAGS FOR ATOVS
115 012063 BRIGHTNESS TEMPERATURE
116 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
117 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
118 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
119 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
120 033032 CHANNEL QUALITY FLAGS FOR ATOVS
121 012063 BRIGHTNESS TEMPERATURE
122 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
123 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
124 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
125 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
126 033032 CHANNEL QUALITY FLAGS FOR ATOVS
127 012063 BRIGHTNESS TEMPERATURE
128 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
129 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
130 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
131 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
132 033032 CHANNEL QUALITY FLAGS FOR ATOVS
133 012063 BRIGHTNESS TEMPERATURE
134 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
135 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
136 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
137 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
138 033032 CHANNEL QUALITY FLAGS FOR ATOVS
139 012063 BRIGHTNESS TEMPERATURE
140 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
141 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
142 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
143 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
144 033032 CHANNEL QUALITY FLAGS FOR ATOVS
145 012063 BRIGHTNESS TEMPERATURE
146 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
147 025076 LOG_10 OF (TEMPERATURE-RADIANCE CENTRAL WAVENUMBER) FOR ATOVS
148 025077 BANDWIDTH CORRECTION COEFFICIENT 1 for ATOVS
149 025078 BANDWIDTH CORRECTION COEFFICIENT 2 FOR ATOVS
150 033032 CHANNEL QUALITY FLAGS FOR ATOVS
151 012063 BRIGHTNESS TEMPERATURE
152 002150 TOVS/ATOVS/AVHRR INSTRUMENTATION
153 025079 ALBEDO-RADIANCE SOLAR FILTERED IRRADIANCE FOR ATOVS
154 025080 ALBEDO-RADIANCE EQUIVALENT FILTER WIDTH FOR ATOVS
155 033032 CHANNEL QUALITY FLAGS FOR ATOVS
156 014045 Channel radiance

```

BUFR SECTION 4 (DATA), SUBSET 1

```

1 TOVS/ATOVS PROD          3.0000 CODE TABLE  8070
2 IDENTIFICATION           98.0000 CODE TABLE  1033
3 IDENTIFICATION           MISSING CODE TABLE  1034
4 TOVS/ATOVS PROD          3.0000 CODE TABLE  8070
5 IDENTIFICATION           98.0000 CODE TABLE  1033
6 IDENTIFICATION           MISSING CODE TABLE  1034
7 SATELLITE IDENT         206.0000 CODE TABLE  1007
8 SATELLITE SENSO          .0000 CODE TABLE  2048
9 ORBIT NUMBER             31536.0000 NUMERIC
10 SATELLITE ANTEN         MISSING NUMERIC
11 SCAN LINE NUMBE         458.0000 NUMERIC
12 FIELD OF VIEW N         9.0000 NUMERIC
13 MAJOR FRAME COU         MISSING NUMERIC
14 SCAN LINE STATU         MISSING FLAG TABLE  33030
15 SCAN LINE QUALI         MISSING FLAG TABLE  33031
16 YEAR                     2001.0000 YEAR
17 MONTH                    2.0000 MONTH
18 DAY                      11.0000 DAY
19 HOUR                     8.0000 HOUR
20 MINUTE                   59.0000 MINUTE
21 SECOND                   56.8930 SECOND
22 LATITUDE (HIGH)         -86.3047 DEGREE
23 LONGITUDE (HIGH)        -129.0391 DEGREE
24 HEIGHT OF STATI         884000.0000 M
25 SATELLITE ZENIT         40.9000 DEGREE
26 BEARING OR AZIM         MISSING DEGREE TRUE
27 SOLAR ZENITH AN         MISSING DEGREE
28 SOLAR AZIMUTH           MISSING DEGREE TRUE
29 FIELD OF VIEW Q         MISSING FLAG TABLE  33033
30 RADIOMETER IDEN         MISSING CODE TABLE  2151

```

| | | | |
|-----|-----------------|--------------------|-------|
| 31 | INSTRUMENT TEMP | MISSING K | |
| 32 | RADIOMETER IDEN | MISSING CODE TABLE | 2151 |
| 33 | INSTRUMENT TEMP | MISSING K | |
| 34 | RADIOMETER IDEN | MISSING CODE TABLE | 2151 |
| 35 | INSTRUMENT TEMP | MISSING K | |
| 36 | RADIOMETER IDEN | MISSING CODE TABLE | 2151 |
| 37 | INSTRUMENT TEMP | MISSING K | |
| 38 | TOVS/ATOV/AVHR | 1.0000 CODE TABLE | 2150 |
| 39 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 40 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 41 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 42 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 43 | BRIGHTNESS TEMP | 244.1400 K | |
| 44 | TOVS/ATOV/AVHR | 2.0000 CODE TABLE | 2150 |
| 45 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 46 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 47 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 48 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 49 | BRIGHTNESS TEMP | 235.7300 K | |
| 50 | TOVS/ATOV/AVHR | 3.0000 CODE TABLE | 2150 |
| 51 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 52 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 53 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 54 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 55 | BRIGHTNESS TEMP | 234.0600 K | |
| 56 | TOVS/ATOV/AVHR | 4.0000 CODE TABLE | 2150 |
| 57 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 58 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 59 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 60 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 61 | BRIGHTNESS TEMP | 232.0600 K | |
| 62 | TOVS/ATOV/AVHR | 5.0000 CODE TABLE | 2150 |
| 63 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 64 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 65 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 66 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 67 | BRIGHTNESS TEMP | 234.8700 K | |
| 68 | TOVS/ATOV/AVHR | 6.0000 CODE TABLE | 2150 |
| 69 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 70 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 71 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 72 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 73 | BRIGHTNESS TEMP | 237.7100 K | |
| 74 | TOVS/ATOV/AVHR | 7.0000 CODE TABLE | 2150 |
| 75 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 76 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 77 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 78 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 79 | BRIGHTNESS TEMP | 241.4100 K | |
| 80 | TOVS/ATOV/AVHR | 8.0000 CODE TABLE | 2150 |
| 81 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 82 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 83 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 84 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 85 | BRIGHTNESS TEMP | 245.5100 K | |
| 86 | TOVS/ATOV/AVHR | 9.0000 CODE TABLE | 2150 |
| 87 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 88 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 89 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 90 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 91 | BRIGHTNESS TEMP | 240.8800 K | |
| 92 | TOVS/ATOV/AVHR | 10.0000 CODE TABLE | 2150 |
| 93 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 94 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 95 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 96 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 97 | BRIGHTNESS TEMP | 244.4700 K | |
| 98 | TOVS/ATOV/AVHR | 11.0000 CODE TABLE | 2150 |
| 99 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 100 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 101 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 102 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 103 | BRIGHTNESS TEMP | 240.5800 K | |
| 104 | TOVS/ATOV/AVHR | 12.0000 CODE TABLE | 2150 |
| 105 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 106 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 107 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 108 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 109 | BRIGHTNESS TEMP | 231.7600 K | |
| 110 | TOVS/ATOV/AVHR | 13.0000 CODE TABLE | 2150 |
| 111 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 112 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 113 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 114 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 115 | BRIGHTNESS TEMP | 240.3900 K | |
| 116 | TOVS/ATOV/AVHR | 14.0000 CODE TABLE | 2150 |
| 117 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 118 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 119 | BANDWIDTH CORRE | MISSING NUMERIC | |
| 120 | CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 121 | BRIGHTNESS TEMP | 236.9300 K | |
| 122 | TOVS/ATOV/AVHR | 15.0000 CODE TABLE | 2150 |
| 123 | LOG_10 OF (TEMP | MISSING LOG (1/M) | |



| | | |
|---------------------|----------------------------|-------|
| 124 BANDWIDTH CORRE | MISSING NUMERIC | |
| 125 BANDWIDTH CORRE | MISSING NUMERIC | |
| 126 CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 127 BRIGHTNESS TEMP | 234.1100 K | |
| 128 TOVS/ATOVS/AVHR | 16.0000 CODE TABLE | 2150 |
| 129 LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 130 BANDWIDTH CORRE | MISSING NUMERIC | |
| 131 BANDWIDTH CORRE | MISSING NUMERIC | |
| 132 CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 133 BRIGHTNESS TEMP | 236.1700 K | |
| 134 TOVS/ATOVS/AVHR | 17.0000 CODE TABLE | 2150 |
| 135 LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 136 BANDWIDTH CORRE | MISSING NUMERIC | |
| 137 BANDWIDTH CORRE | MISSING NUMERIC | |
| 138 CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 139 BRIGHTNESS TEMP | 245.9700 K | |
| 140 TOVS/ATOVS/AVHR | 18.0000 CODE TABLE | 2150 |
| 141 LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 142 BANDWIDTH CORRE | MISSING NUMERIC | |
| 143 BANDWIDTH CORRE | MISSING NUMERIC | |
| 144 CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 145 BRIGHTNESS TEMP | 254.4500 K | |
| 146 TOVS/ATOVS/AVHR | 19.0000 CODE TABLE | 2150 |
| 147 LOG_10 OF (TEMP | MISSING LOG (1/M) | |
| 148 BANDWIDTH CORRE | MISSING NUMERIC | |
| 149 BANDWIDTH CORRE | MISSING NUMERIC | |
| 150 CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 151 BRIGHTNESS TEMP | 263.8700 K | |
| 152 TOVS/ATOVS/AVHR | 20.0000 CODE TABLE | 2150 |
| 153 ALBEDO-RADIANCE | MISSING W/M**2 | |
| 154 ALBEDO-RADIANCE | MISSING M | |
| 155 CHANNEL QUALITY | MISSING FLAG TABLE | 33032 |
| 156 Channel radianc | MISSING (W/m**2)*(1/sr)*cm | |

3.39 Satob section 4

RDB type 3, subtype 84

BUFR Tables to be loaded B0000980601,D0000980601

```
1
  BUFR SECTION 0

  Length of section 0 (bytes)      8
  Total length of Bufr message (bytes) 206
  Bufr Edition number              3
```

```
1
  BUFR SECTION 1

  Length of section 1 (bytes)      18
  Bufr Edition number              3
  Originating sub-centre           0
  Originating centre               98
  Update sequence number           1
  Flag (presence of section 2)    128
  Bufr message type                5
  Bufr message subtype             84
  Version number of local table     1
  Year                             1
  Month                            2
  Day                              14
  Hour                             11
  Minute                           0
  Version number of Master table    6
  Bufr Master table                 0
```

```
1
  BUFR SECTION 2

  Length of section 2              52

  Report Data Base Key

  RDB data type                    3
  RDB data subtype                 84
  Year                             2001
  Month                            2
  Day                              14
  Hour                             11
  Minute                           0
  Second                           0
  Latitude 1                       10.00
  Longitude 1                      111.00
  Latitude 2                       11.00
  Longitude 2                      135.00
  Number of observations            3
  Identifier                        52
  Total Bufr message length        206
  Day (RDB insertion)              14
  Hour (RDB insertion)             12
  Minute (RDB insertion)           10
  Second (RDB insertion)           57
  Day (MDB arrival)                14
  Hour (MDB arrival)               12
  Minute (MDB arrival)              8
  Second (MDB arrival)             58
  Correction number                 0
  Part of message                   1
  Correction number                 0
  Part of message                   0
  Correction number                 0
  Part of message                   0
  Correction number                 0
  Part of message                   0
  Quality control % conf           70
```

```
1
  BUFR SECTION 3

  Length of section 3 (bytes)      26
  Reserved                          0
  Number of data subsets           3
  Flag (data type/data compression) 128
```

Data descriptors (unexpanded)

```
1 301042
2 304003
3 222000
4 101012
5 031031
6 001031
7 001032
8 101012
```

9 033007

Data descriptors (expanded)

```

1 001007 SATELLITE IDENTIFIER
2 002021 SATELLITE INSTRUMENT DATA USED IN PROCESSING
3 002022 SATELLITE DATA PROCESSING TECHNIQUE USED
4 004001 YEAR
5 004002 MONTH
6 004003 DAY
7 004004 HOUR
8 004005 MINUTE
9 005001 LATITUDE (HIGH ACCURACY)
10 006001 LONGITUDE (HIGH ACCURACY)
11 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
12 012001 TEMPERATURE/DRY BULB TEMPERATURE
13 222000 QUALITY INFORMATION FOLLOW
14 031031 DATA PRESENT INDICATOR
15 031031 DATA PRESENT INDICATOR
16 031031 DATA PRESENT INDICATOR
17 031031 DATA PRESENT INDICATOR
18 031031 DATA PRESENT INDICATOR
19 031031 DATA PRESENT INDICATOR
20 031031 DATA PRESENT INDICATOR
21 031031 DATA PRESENT INDICATOR
22 031031 DATA PRESENT INDICATOR
23 031031 DATA PRESENT INDICATOR
24 031031 DATA PRESENT INDICATOR
25 031031 DATA PRESENT INDICATOR
26 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
27 001032 GENERATING APPLICATION
28 033007 % CONFIDENCE
29 033007 % CONFIDENCE
30 033007 % CONFIDENCE
31 033007 % CONFIDENCE
32 033007 % CONFIDENCE
33 033007 % CONFIDENCE
34 033007 % CONFIDENCE
35 033007 % CONFIDENCE
36 033007 % CONFIDENCE
37 033007 % CONFIDENCE
38 033007 % CONFIDENCE
39 033007 % CONFIDENCE

```

BUFR SECTION 4 (DATA), SUBSET 1

```

1 SATELLITE IDENT          52.0000 CODE TABLE  1007
2 SATELLITE INSTR         MISSING FLAG TABLE  2021
3 SATELLITE DATA         MISSING FLAG TABLE  2022
4 YEAR                    2001.0000 YEAR
5 MONTH                   2.0000 MONTH
6 DAY                     14.0000 DAY
7 HOUR                    11.0000 HOUR
8 MINUTE                  .0000 MINUTE
9 LATITUDE (HIGH)        11.0000 DEGREE
10 LONGITUDE (HIGH)      111.0000 DEGREE
11 VERTICAL SIGNIF       .0000 CODE TABLE  8003
12 TEMPERATURE/DRY      276.6000 K
13 QUALITY INFORMA       .0000
14 DATA PRESENT IN      .0000 NUMERIC
15 DATA PRESENT IN      .0000 NUMERIC
16 DATA PRESENT IN      .0000 NUMERIC
17 DATA PRESENT IN      .0000 NUMERIC
18 DATA PRESENT IN      .0000 NUMERIC
19 DATA PRESENT IN      .0000 NUMERIC
20 DATA PRESENT IN      .0000 NUMERIC
21 DATA PRESENT IN      .0000 NUMERIC
22 DATA PRESENT IN      .0000 NUMERIC
23 DATA PRESENT IN      .0000 NUMERIC
24 DATA PRESENT IN      .0000 NUMERIC
25 DATA PRESENT IN      .0000 NUMERIC
26 IDENTIFICATION        98.0000 CODE TABLE  1031
27 GENERATING APPL       1.0000 CODE TABLE  1032
28 % CONFIDENCE          70.0000 NUMERIC
29 % CONFIDENCE          70.0000 NUMERIC
30 % CONFIDENCE          70.0000 NUMERIC
31 % CONFIDENCE          70.0000 NUMERIC
32 % CONFIDENCE          70.0000 NUMERIC
33 % CONFIDENCE          70.0000 NUMERIC
34 % CONFIDENCE          70.0000 NUMERIC
35 % CONFIDENCE          70.0000 NUMERIC
36 % CONFIDENCE          70.0000 NUMERIC
37 % CONFIDENCE          70.0000 NUMERIC
38 % CONFIDENCE          70.0000 NUMERIC
39 % CONFIDENCE          70.0000 NUMERIC

```

3.40 Wind profiler

RDB type 4, subtype 97

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|-----|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 302 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 0 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 2 |
| Bufr message subtype | 97 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 11 |
| Hour | 0 |
| Minute | 10 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|-------|
| RDB data type | 4 |
| RDB data subtype | 97 |
| Year | 2001 |
| Month | 2 |
| Day | 11 |
| Hour | 0 |
| Minute | 1 |
| Second | 0 |
| Latitude 1 | 52.21 |
| Longitude 1 | 14.13 |
| Identifier | 10394 |
| Total Bufr message length | 302 |
| Day (RDB insertion) | 11 |
| Hour (RDB insertion) | 0 |
| Minute (RDB insertion) | 15 |
| Second (RDB insertion) | 11 |
| Day (MDB arrival) | 11 |
| Hour (MDB arrival) | 0 |
| Minute (MDB arrival) | 15 |
| Second (MDB arrival) | 9 |
| Correction number | 0 |
| Part of message | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 68 |
| Reserved | 0 |
| Number of data subsets | 1 |
| Flag (data type/data compression) | 128 |

Data descriptors (unexpanded)

| | |
|----|--------|
| 1 | 301032 |
| 2 | 002003 |
| 3 | 002101 |
| 4 | 201130 |
| 5 | 002106 |
| 6 | 201000 |
| 7 | 201132 |
| 8 | 202130 |
| 9 | 002121 |
| 10 | 202000 |
| 11 | 201000 |

12 201133
 13 202129
 14 025001
 15 202000
 16 201000
 17 025020
 18 025021
 19 008021
 20 004025
 21 010004
 22 107000
 23 031001
 24 007007
 25 204001
 26 031021
 27 012007
 28 011006
 29 204000
 30 021030

Data descriptors (expanded)

1 001001 WMO BLOCK NUMBER
 2 001002 WMO STATION NUMBER
 3 002001 TYPE OF STATION
 4 004001 YEAR
 5 004002 MONTH
 6 004003 DAY
 7 004004 HOUR
 8 004005 MINUTE
 9 005002 LATITUDE (COARSE ACCURACY)
 10 006002 LONGITUDE (COARSE ACCURACY)
 11 007001 HEIGHT OF STATION
 12 002003 TYPE OF MEASURING EQUIPMENT USED
 13 002101 TYPE OF ANTENNA
 14 002106 3-dB BEAMWIDTH
 15 002121 MEAN FREQUENCY
 16 025001 RANGE-GATE LENGTH
 17 025020 MEAN SPEED ESTIMATION
 18 025021 WIND COMPUTATION ENHANCEMENT
 19 008021 TIME SIGNIFICANCE
 20 004025 TIME PERIOD OR DISPLACEMENT
 21 010004 PRESSURE
 22 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
 23 007007 HEIGHT
 24 031021 ASSOCIATED FIELD SIGNIFICANCE
 25 999999 ASSOCIATED FIELD
 26 012007 VIRTUAL TEMPERATURE
 27 999999 ASSOCIATED FIELD
 28 011006 W-COMPONENT
 29 021030 SIGNAL TO NOISE RATIO
 30 007007 HEIGHT
 31 031021 ASSOCIATED FIELD SIGNIFICANCE
 32 999999 ASSOCIATED FIELD
 33 012007 VIRTUAL TEMPERATURE
 34 999999 ASSOCIATED FIELD
 35 011006 W-COMPONENT
 36 021030 SIGNAL TO NOISE RATIO
 37 007007 HEIGHT
 38 031021 ASSOCIATED FIELD SIGNIFICANCE
 39 999999 ASSOCIATED FIELD
 40 012007 VIRTUAL TEMPERATURE
 41 999999 ASSOCIATED FIELD
 42 011006 W-COMPONENT
 43 021030 SIGNAL TO NOISE RATIO
 44 007007 HEIGHT
 45 031021 ASSOCIATED FIELD SIGNIFICANCE
 46 999999 ASSOCIATED FIELD
 47 012007 VIRTUAL TEMPERATURE
 48 999999 ASSOCIATED FIELD
 49 011006 W-COMPONENT
 50 021030 SIGNAL TO NOISE RATIO
 51 007007 HEIGHT
 52 031021 ASSOCIATED FIELD SIGNIFICANCE
 53 999999 ASSOCIATED FIELD
 54 012007 VIRTUAL TEMPERATURE
 55 999999 ASSOCIATED FIELD
 56 011006 W-COMPONENT
 57 021030 SIGNAL TO NOISE RATIO
 58 007007 HEIGHT
 59 031021 ASSOCIATED FIELD SIGNIFICANCE
 60 999999 ASSOCIATED FIELD
 61 012007 VIRTUAL TEMPERATURE
 62 999999 ASSOCIATED FIELD
 63 011006 W-COMPONENT
 64 021030 SIGNAL TO NOISE RATIO
 65 007007 HEIGHT
 66 031021 ASSOCIATED FIELD SIGNIFICANCE
 67 999999 ASSOCIATED FIELD
 68 012007 VIRTUAL TEMPERATURE
 69 999999 ASSOCIATED FIELD
 70 011006 W-COMPONENT

71 021030 SIGNAL TO NOISE RATIO
72 007007 HEIGHT
73 031021 ASSOCIATED FIELD SIGNIFICANCE
74 999999 ASSOCIATED FIELD
75 012007 VIRTUAL TEMPERATURE
76 999999 ASSOCIATED FIELD
77 011006 W-COMPONENT
78 021030 SIGNAL TO NOISE RATIO
79 007007 HEIGHT
80 031021 ASSOCIATED FIELD SIGNIFICANCE
81 999999 ASSOCIATED FIELD
82 012007 VIRTUAL TEMPERATURE
83 999999 ASSOCIATED FIELD
84 011006 W-COMPONENT
85 021030 SIGNAL TO NOISE RATIO
86 007007 HEIGHT
87 031021 ASSOCIATED FIELD SIGNIFICANCE
88 999999 ASSOCIATED FIELD
89 012007 VIRTUAL TEMPERATURE
90 999999 ASSOCIATED FIELD
91 011006 W-COMPONENT
92 021030 SIGNAL TO NOISE RATIO
93 007007 HEIGHT
94 031021 ASSOCIATED FIELD SIGNIFICANCE
95 999999 ASSOCIATED FIELD
96 012007 VIRTUAL TEMPERATURE
97 999999 ASSOCIATED FIELD
98 011006 W-COMPONENT
99 021030 SIGNAL TO NOISE RATIO
100 007007 HEIGHT
101 031021 ASSOCIATED FIELD SIGNIFICANCE
102 999999 ASSOCIATED FIELD
103 012007 VIRTUAL TEMPERATURE
104 999999 ASSOCIATED FIELD
105 011006 W-COMPONENT
106 021030 SIGNAL TO NOISE RATIO
107 007007 HEIGHT
108 031021 ASSOCIATED FIELD SIGNIFICANCE
109 999999 ASSOCIATED FIELD
110 012007 VIRTUAL TEMPERATURE
111 999999 ASSOCIATED FIELD
112 011006 W-COMPONENT
113 021030 SIGNAL TO NOISE RATIO
114 007007 HEIGHT
115 031021 ASSOCIATED FIELD SIGNIFICANCE
116 999999 ASSOCIATED FIELD
117 012007 VIRTUAL TEMPERATURE
118 999999 ASSOCIATED FIELD
119 011006 W-COMPONENT
120 021030 SIGNAL TO NOISE RATIO
121 007007 HEIGHT
122 031021 ASSOCIATED FIELD SIGNIFICANCE
123 999999 ASSOCIATED FIELD
124 012007 VIRTUAL TEMPERATURE
125 999999 ASSOCIATED FIELD
126 011006 W-COMPONENT
127 021030 SIGNAL TO NOISE RATIO
128 007007 HEIGHT
129 031021 ASSOCIATED FIELD SIGNIFICANCE
130 999999 ASSOCIATED FIELD
131 012007 VIRTUAL TEMPERATURE
132 999999 ASSOCIATED FIELD
133 011006 W-COMPONENT
134 021030 SIGNAL TO NOISE RATIO
135 007007 HEIGHT
136 031021 ASSOCIATED FIELD SIGNIFICANCE
137 999999 ASSOCIATED FIELD
138 012007 VIRTUAL TEMPERATURE
139 999999 ASSOCIATED FIELD
140 011006 W-COMPONENT
141 021030 SIGNAL TO NOISE RATIO

BUFR SECTION 4 (DATA), SUBSET 1

| | | | | |
|----|-----------------|----------------|--------------------|-------|
| 1 | WMO BLOCK NUMBE | 10.0000 | NUMERIC | |
| 2 | WMO STATION NUM | 394.0000 | NUMERIC | |
| 3 | TYPE OF STATION | 2.0000 | CODE TABLE | 2001 |
| 4 | YEAR | 2001.0000 | YEAR | |
| 5 | MONTH | 2.0000 | MONTH | |
| 6 | DAY | 11.0000 | DAY | |
| 7 | HOUR | .0000 | HOUR | |
| 8 | MINUTE | 1.0000 | MINUTE | |
| 9 | LATITUDE (COARS | 52.2100 | DEGREE | |
| 10 | LONGITUDE (COAR | 14.1300 | DEGREE | |
| 11 | HEIGHT OF STATI | 103.0000 | M | |
| 12 | TYPE OF MEASURI | 8.0000 | CODE TABLE | 2003 |
| 13 | TYPE OF ANTENNA | 7.0000 | CODE TABLE | 2101 |
| 14 | 3-Gb BEAMWIDTH | 2.7000 | DEGREE | |
| 15 | MEAN FREQUENCY | 482000000.0000 | Hz | |
| 16 | RANGE-GATE LENG | 254.0000 | M | |
| 17 | MEAN SPEED ESTI | .0000 | CODE TABLE | 25020 |
| 18 | WIND COMPUTATIO | | MISSING FLAG TABLE | 25021 |
| 19 | TIME SIGNIFICAN | 2.0000 | CODE TABLE | 8021 |

| | | | | |
|-----|-----------------|-----------|------------|-------|
| 20 | TIME PERIOD OR | 3.0000 | MINUTE | |
| 21 | PRESSURE | | MISSING PA | |
| 22 | DELAYED DESCRIP | 17.0000 | NUMERIC | |
| 23 | HEIGHT | 576.0000 | M | |
| 24 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 25 | ASSOCIATED FIEL | .0000 | | |
| 26 | VIRTUAL TEMPERA | 272.6000 | K | |
| 27 | ASSOCIATED FIEL | .0000 | | |
| 28 | W-COMPONENT | .0000 | M/S | |
| 29 | SIGNAL TO NOISE | -21.0000 | dB | |
| 30 | HEIGHT | 711.0000 | M | |
| 31 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 32 | ASSOCIATED FIEL | .0000 | | |
| 33 | VIRTUAL TEMPERA | 272.2000 | K | |
| 34 | ASSOCIATED FIEL | .0000 | | |
| 35 | W-COMPONENT | .1000 | M/S | |
| 36 | SIGNAL TO NOISE | -8.0000 | dB | |
| 37 | HEIGHT | 846.0000 | M | |
| 38 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 39 | ASSOCIATED FIEL | .0000 | | |
| 40 | VIRTUAL TEMPERA | 271.8000 | K | |
| 41 | ASSOCIATED FIEL | .0000 | | |
| 42 | W-COMPONENT | .2000 | M/S | |
| 43 | SIGNAL TO NOISE | 3.0000 | dB | |
| 44 | HEIGHT | 981.0000 | M | |
| 45 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 46 | ASSOCIATED FIEL | .0000 | | |
| 47 | VIRTUAL TEMPERA | 271.3000 | K | |
| 48 | ASSOCIATED FIEL | .0000 | | |
| 49 | W-COMPONENT | .1000 | M/S | |
| 50 | SIGNAL TO NOISE | 6.0000 | dB | |
| 51 | HEIGHT | 1116.0000 | M | |
| 52 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 53 | ASSOCIATED FIEL | .0000 | | |
| 54 | VIRTUAL TEMPERA | 271.2000 | K | |
| 55 | ASSOCIATED FIEL | .0000 | | |
| 56 | W-COMPONENT | .1000 | M/S | |
| 57 | SIGNAL TO NOISE | 2.0000 | dB | |
| 58 | HEIGHT | 1251.0000 | M | |
| 59 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 60 | ASSOCIATED FIEL | .0000 | | |
| 61 | VIRTUAL TEMPERA | 271.0000 | K | |
| 62 | ASSOCIATED FIEL | .0000 | | |
| 63 | W-COMPONENT | .0000 | M/S | |
| 64 | SIGNAL TO NOISE | -4.0000 | dB | |
| 65 | HEIGHT | 1386.0000 | M | |
| 66 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 67 | ASSOCIATED FIEL | .0000 | | |
| 68 | VIRTUAL TEMPERA | 270.7000 | K | |
| 69 | ASSOCIATED FIEL | .0000 | | |
| 70 | W-COMPONENT | .0000 | M/S | |
| 71 | SIGNAL TO NOISE | -5.0000 | dB | |
| 72 | HEIGHT | 1521.0000 | M | |
| 73 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 74 | ASSOCIATED FIEL | .0000 | | |
| 75 | VIRTUAL TEMPERA | 270.2000 | K | |
| 76 | ASSOCIATED FIEL | .0000 | | |
| 77 | W-COMPONENT | .0000 | M/S | |
| 78 | SIGNAL TO NOISE | -8.0000 | dB | |
| 79 | HEIGHT | 1656.0000 | M | |
| 80 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 81 | ASSOCIATED FIEL | .0000 | | |
| 82 | VIRTUAL TEMPERA | 270.0000 | K | |
| 83 | ASSOCIATED FIEL | .0000 | | |
| 84 | W-COMPONENT | .0000 | M/S | |
| 85 | SIGNAL TO NOISE | -12.0000 | dB | |
| 86 | HEIGHT | 1791.0000 | M | |
| 87 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 88 | ASSOCIATED FIEL | .0000 | | |
| 89 | VIRTUAL TEMPERA | 270.0000 | K | |
| 90 | ASSOCIATED FIEL | .0000 | | |
| 91 | W-COMPONENT | -.1000 | M/S | |
| 92 | SIGNAL TO NOISE | -16.0000 | dB | |
| 93 | HEIGHT | 1926.0000 | M | |
| 94 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 95 | ASSOCIATED FIEL | .0000 | | |
| 96 | VIRTUAL TEMPERA | 270.1000 | K | |
| 97 | ASSOCIATED FIEL | .0000 | | |
| 98 | W-COMPONENT | -.1000 | M/S | |
| 99 | SIGNAL TO NOISE | -17.0000 | dB | |
| 100 | HEIGHT | 2061.0000 | M | |
| 101 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 102 | ASSOCIATED FIEL | .0000 | | |
| 103 | VIRTUAL TEMPERA | 270.3000 | K | |
| 104 | ASSOCIATED FIEL | .0000 | | |
| 105 | W-COMPONENT | -.2000 | M/S | |
| 106 | SIGNAL TO NOISE | -2.0000 | dB | |
| 107 | HEIGHT | 2196.0000 | M | |
| 108 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 109 | ASSOCIATED FIEL | .0000 | | |
| 110 | VIRTUAL TEMPERA | 270.2000 | K | |
| 111 | ASSOCIATED FIEL | .0000 | | |
| 112 | W-COMPONENT | -.1000 | M/S | |



| | | | | |
|-----|-----------------|-----------|------------|-------|
| 113 | SIGNAL TO NOISE | 6.0000 | dB | |
| 114 | HEIGHT | 2331.0000 | M | |
| 115 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 116 | ASSOCIATED FIEL | .0000 | | |
| 117 | VIRTUAL TEMPERA | 269.2000 | K | |
| 118 | ASSOCIATED FIEL | .0000 | | |
| 119 | W-COMPONENT | -.1000 | M/S | |
| 120 | SIGNAL TO NOISE | 5.0000 | dB | |
| 121 | HEIGHT | 2466.0000 | M | |
| 122 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 123 | ASSOCIATED FIEL | .0000 | | |
| 124 | VIRTUAL TEMPERA | 267.9000 | K | |
| 125 | ASSOCIATED FIEL | .0000 | | |
| 126 | W-COMPONENT | -.2000 | M/S | |
| 127 | SIGNAL TO NOISE | 1.0000 | dB | |
| 128 | HEIGHT | 2601.0000 | M | |
| 129 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 130 | ASSOCIATED FIEL | .0000 | | |
| 131 | VIRTUAL TEMPERA | 266.4000 | K | |
| 132 | ASSOCIATED FIEL | .0000 | | |
| 133 | W-COMPONENT | -.1000 | M/S | |
| 134 | SIGNAL TO NOISE | -3.0000 | dB | |
| 135 | HEIGHT | 2736.0000 | M | |
| 136 | ASSOCIATED FIEL | 1.0000 | CODE TABLE | 31021 |
| 137 | ASSOCIATED FIEL | .0000 | | |
| 138 | VIRTUAL TEMPERA | 265.5000 | K | |
| 139 | ASSOCIATED FIEL | .0000 | | |
| 140 | W-COMPONENT | -.2000 | M/S | |
| 141 | SIGNAL TO NOISE | -6.0000 | dB | |



3.41 ROCOB data

RDB type 5, subtype 104

BUFR Tables to be loaded B0000980601,D0000980601

```
1
  BUFR SECTION 0

  Length of section 0 (bytes)          8
  Total length of Bufr message (bytes) 558
  Bufr Edition number                  3
```

```
1
  BUFR SECTION 1

  Length of section 1 (bytes)          18
  Bufr Edition number                   3
  Originating sub-centre                0
  Originating centre                    98
  Update sequence number                 1
  Flag (presence of section 2)         128
  Bufr message type                     2
  Bufr message subtype                  104
  Version number of local table         1
  Year                                  1
  Month                                  2
  Day                                    14
  Hour                                   2
  Minute                                0
  Version number of Master table        6
  Bufr Master table                     0
```

```
1
  BUFR SECTION 2

  Length of section 2                   52

  Report Data Base Key

  RDB data type                         5
  RDB data subtype                       104
  Year                                   2001
  Month                                  2
  Day                                    14
  Hour                                   2
  Minute                                0
  Second                                 0
  Latitude 1                             39.03
  Longitude 1                             141.83
  Identifier                              47513
  Total Bufr message length              558
  Day (RDB insertion)                    14
  Hour (RDB insertion)                   4
  Minute (RDB insertion)                  49
  Second (RDB insertion)                  52
  Day (MDB arrival)                      14
  Hour (MDB arrival)                     4
  Minute (MDB arrival)                    48
  Second (MDB arrival)                    55
  Correction number                       0
  Part of message                         1
  Correction number                       0
  Part of message                         0
  Correction number                       0
  Part of message                         0
  Correction number                       0
  Part of message                         0
  Quality control % conf                  70
```

```
1
  BUFR SECTION 3

  Length of section 3 (bytes)            68
  Reserved                               0
  Number of data subsets                  1
  Flag (data type/data compression)      128
```

Data descriptors (unexpanded)

```
1 001001
2 001002
3 002240
4 002241
5 002242
6 002243
7 002244
8 002245
9 004001
10 004002
```

11 004003
12 004004
13 004005
14 004006
15 005001
16 006001
17 105000
18 031001
19 007004
20 010003
21 012001
22 011001
23 011002
24 105000
25 031001
26 007002
27 012001
28 013240
29 011001
30 011002

Data descriptors (expanded)

1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 002240 TYPE OF THERMODYNAMIC SENSING
4 002241 TYPE OF ROCKET MOTOR
5 002242 TYPE OF WIND SENSING EQUIPMENT
6 002243 THERMODYNAMIC CORRECTION TECHNIQUE
7 002244 WIND CORRECTION TECHNIQUE
8 002245 METHOD OF REDUCING OF DATA
9 004001 YEAR
10 004002 MONTH
11 004003 DAY
12 004004 HOUR
13 004005 MINUTE
14 004006 SECOND
15 005001 LATITUDE (HIGH ACCURACY)
16 006001 LONGITUDE (HIGH ACCURACY)
17 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
18 007004 PRESSURE
19 010003 GEOPOTENTIAL
20 012001 TEMPERATURE/DRY BULB TEMPERATURE
21 011001 WIND DIRECTION
22 011002 WIND SPEED
23 007004 PRESSURE
24 010003 GEOPOTENTIAL
25 012001 TEMPERATURE/DRY BULB TEMPERATURE
26 011001 WIND DIRECTION
27 011002 WIND SPEED
28 007004 PRESSURE
29 010003 GEOPOTENTIAL
30 012001 TEMPERATURE/DRY BULB TEMPERATURE
31 011001 WIND DIRECTION
32 011002 WIND SPEED
33 007004 PRESSURE
34 010003 GEOPOTENTIAL
35 012001 TEMPERATURE/DRY BULB TEMPERATURE
36 011001 WIND DIRECTION
37 011002 WIND SPEED
38 007004 PRESSURE
39 010003 GEOPOTENTIAL
40 012001 TEMPERATURE/DRY BULB TEMPERATURE
41 011001 WIND DIRECTION
42 011002 WIND SPEED
43 007004 PRESSURE
44 010003 GEOPOTENTIAL
45 012001 TEMPERATURE/DRY BULB TEMPERATURE
46 011001 WIND DIRECTION
47 011002 WIND SPEED
48 007004 PRESSURE
49 010003 GEOPOTENTIAL
50 012001 TEMPERATURE/DRY BULB TEMPERATURE
51 011001 WIND DIRECTION
52 011002 WIND SPEED
53 007004 PRESSURE
54 010003 GEOPOTENTIAL
55 012001 TEMPERATURE/DRY BULB TEMPERATURE
56 011001 WIND DIRECTION
57 011002 WIND SPEED
58 007004 PRESSURE
59 010003 GEOPOTENTIAL
60 012001 TEMPERATURE/DRY BULB TEMPERATURE
61 011001 WIND DIRECTION
62 011002 WIND SPEED
63 007004 PRESSURE
64 010003 GEOPOTENTIAL
65 012001 TEMPERATURE/DRY BULB TEMPERATURE
66 011001 WIND DIRECTION
67 011002 WIND SPEED
68 007004 PRESSURE
69 010003 GEOPOTENTIAL

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70 012001 TEMPERATURE/DRY BULB TEMPERATURE
71 011001 WIND DIRECTION
72 011002 WIND SPEED
73 007004 PRESSURE
74 010003 GEOPOTENTIAL
75 012001 TEMPERATURE/DRY BULB TEMPERATURE
76 011001 WIND DIRECTION
77 011002 WIND SPEED
78 007004 PRESSURE
79 010003 GEOPOTENTIAL
80 012001 TEMPERATURE/DRY BULB TEMPERATURE
81 011001 WIND DIRECTION
82 011002 WIND SPEED
83 007004 PRESSURE
84 010003 GEOPOTENTIAL
85 012001 TEMPERATURE/DRY BULB TEMPERATURE
86 011001 WIND DIRECTION
87 011002 WIND SPEED
88 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
89 007002 HEIGHT OR ALTITUDE
90 012001 TEMPERATURE/DRY BULB TEMPERATURE
91 013240 AIR DENSITY
92 011001 WIND DIRECTION
93 011002 WIND SPEED
94 007002 HEIGHT OR ALTITUDE
95 012001 TEMPERATURE/DRY BULB TEMPERATURE
96 013240 AIR DENSITY
97 011001 WIND DIRECTION
98 011002 WIND SPEED
99 007002 HEIGHT OR ALTITUDE
100 012001 TEMPERATURE/DRY BULB TEMPERATURE
101 013240 AIR DENSITY
102 011001 WIND DIRECTION
103 011002 WIND SPEED
104 007002 HEIGHT OR ALTITUDE
105 012001 TEMPERATURE/DRY BULB TEMPERATURE
106 013240 AIR DENSITY
107 011001 WIND DIRECTION
108 011002 WIND SPEED
109 007002 HEIGHT OR ALTITUDE
110 012001 TEMPERATURE/DRY BULB TEMPERATURE
111 013240 AIR DENSITY
112 011001 WIND DIRECTION
113 011002 WIND SPEED
114 007002 HEIGHT OR ALTITUDE
115 012001 TEMPERATURE/DRY BULB TEMPERATURE
116 013240 AIR DENSITY
117 011001 WIND DIRECTION
118 011002 WIND SPEED
119 007002 HEIGHT OR ALTITUDE
120 012001 TEMPERATURE/DRY BULB TEMPERATURE
121 013240 AIR DENSITY
122 011001 WIND DIRECTION
123 011002 WIND SPEED
124 007002 HEIGHT OR ALTITUDE
125 012001 TEMPERATURE/DRY BULB TEMPERATURE
126 013240 AIR DENSITY
127 011001 WIND DIRECTION
128 011002 WIND SPEED
129 007002 HEIGHT OR ALTITUDE
130 012001 TEMPERATURE/DRY BULB TEMPERATURE
131 013240 AIR DENSITY
132 011001 WIND DIRECTION
133 011002 WIND SPEED
134 007002 HEIGHT OR ALTITUDE
135 012001 TEMPERATURE/DRY BULB TEMPERATURE
136 013240 AIR DENSITY
137 011001 WIND DIRECTION
138 011002 WIND SPEED
139 007002 HEIGHT OR ALTITUDE
140 012001 TEMPERATURE/DRY BULB TEMPERATURE
141 013240 AIR DENSITY
142 011001 WIND DIRECTION
143 011002 WIND SPEED
144 007002 HEIGHT OR ALTITUDE
145 012001 TEMPERATURE/DRY BULB TEMPERATURE
146 013240 AIR DENSITY
147 011001 WIND DIRECTION
148 011002 WIND SPEED
149 007002 HEIGHT OR ALTITUDE
150 012001 TEMPERATURE/DRY BULB TEMPERATURE
151 013240 AIR DENSITY
152 011001 WIND DIRECTION
153 011002 WIND SPEED
154 007002 HEIGHT OR ALTITUDE
155 012001 TEMPERATURE/DRY BULB TEMPERATURE
156 013240 AIR DENSITY
157 011001 WIND DIRECTION
158 011002 WIND SPEED
159 007002 HEIGHT OR ALTITUDE
160 012001 TEMPERATURE/DRY BULB TEMPERATURE
161 013240 AIR DENSITY
162 011001 WIND DIRECTION
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163 011002 WIND SPEED
164 007002 HEIGHT OR ALTITUDE
165 012001 TEMPERATURE/DRY BULB TEMPERATURE
166 013240 AIR DENSITY
167 011001 WIND DIRECTION
168 011002 WIND SPEED
169 007002 HEIGHT OR ALTITUDE
170 012001 TEMPERATURE/DRY BULB TEMPERATURE
171 013240 AIR DENSITY
172 011001 WIND DIRECTION
173 011002 WIND SPEED
174 007002 HEIGHT OR ALTITUDE
175 012001 TEMPERATURE/DRY BULB TEMPERATURE
176 013240 AIR DENSITY
177 011001 WIND DIRECTION
178 011002 WIND SPEED
179 007002 HEIGHT OR ALTITUDE
180 012001 TEMPERATURE/DRY BULB TEMPERATURE
181 013240 AIR DENSITY
182 011001 WIND DIRECTION
183 011002 WIND SPEED
184 007002 HEIGHT OR ALTITUDE
185 012001 TEMPERATURE/DRY BULB TEMPERATURE
186 013240 AIR DENSITY
187 011001 WIND DIRECTION
188 011002 WIND SPEED
189 007002 HEIGHT OR ALTITUDE
190 012001 TEMPERATURE/DRY BULB TEMPERATURE
191 013240 AIR DENSITY
192 011001 WIND DIRECTION
193 011002 WIND SPEED
194 007002 HEIGHT OR ALTITUDE
195 012001 TEMPERATURE/DRY BULB TEMPERATURE
196 013240 AIR DENSITY
197 011001 WIND DIRECTION
198 011002 WIND SPEED
199 007002 HEIGHT OR ALTITUDE
200 012001 TEMPERATURE/DRY BULB TEMPERATURE
201 013240 AIR DENSITY
202 011001 WIND DIRECTION
203 011002 WIND SPEED
204 007002 HEIGHT OR ALTITUDE
205 012001 TEMPERATURE/DRY BULB TEMPERATURE
206 013240 AIR DENSITY
207 011001 WIND DIRECTION
208 011002 WIND SPEED
209 007002 HEIGHT OR ALTITUDE
210 012001 TEMPERATURE/DRY BULB TEMPERATURE
211 013240 AIR DENSITY
212 011001 WIND DIRECTION
213 011002 WIND SPEED
214 007002 HEIGHT OR ALTITUDE
215 012001 TEMPERATURE/DRY BULB TEMPERATURE
216 013240 AIR DENSITY
217 011001 WIND DIRECTION
218 011002 WIND SPEED
219 007002 HEIGHT OR ALTITUDE
220 012001 TEMPERATURE/DRY BULB TEMPERATURE
221 013240 AIR DENSITY
222 011001 WIND DIRECTION
223 011002 WIND SPEED
224 007002 HEIGHT OR ALTITUDE
225 012001 TEMPERATURE/DRY BULB TEMPERATURE
226 013240 AIR DENSITY
227 011001 WIND DIRECTION
228 011002 WIND SPEED
229 007002 HEIGHT OR ALTITUDE
230 012001 TEMPERATURE/DRY BULB TEMPERATURE
231 013240 AIR DENSITY
232 011001 WIND DIRECTION
233 011002 WIND SPEED
234 007002 HEIGHT OR ALTITUDE
235 012001 TEMPERATURE/DRY BULB TEMPERATURE
236 013240 AIR DENSITY
237 011001 WIND DIRECTION
238 011002 WIND SPEED
239 007002 HEIGHT OR ALTITUDE
240 012001 TEMPERATURE/DRY BULB TEMPERATURE
241 013240 AIR DENSITY
242 011001 WIND DIRECTION
243 011002 WIND SPEED
244 007002 HEIGHT OR ALTITUDE
245 012001 TEMPERATURE/DRY BULB TEMPERATURE
246 013240 AIR DENSITY
247 011001 WIND DIRECTION
248 011002 WIND SPEED
249 007002 HEIGHT OR ALTITUDE
250 012001 TEMPERATURE/DRY BULB TEMPERATURE
251 013240 AIR DENSITY
252 011001 WIND DIRECTION
253 011002 WIND SPEED
254 007002 HEIGHT OR ALTITUDE
255 012001 TEMPERATURE/DRY BULB TEMPERATURE

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256 013240 AIR DENSITY
257 011001 WIND DIRECTION
258 011002 WIND SPEED
259 007002 HEIGHT OR ALTITUDE
260 012001 TEMPERATURE/DRY BULB TEMPERATURE
261 013240 AIR DENSITY
262 011001 WIND DIRECTION
263 011002 WIND SPEED
264 007002 HEIGHT OR ALTITUDE
265 012001 TEMPERATURE/DRY BULB TEMPERATURE
266 013240 AIR DENSITY
267 011001 WIND DIRECTION
268 011002 WIND SPEED
269 007002 HEIGHT OR ALTITUDE
270 012001 TEMPERATURE/DRY BULB TEMPERATURE
271 013240 AIR DENSITY
272 011001 WIND DIRECTION
273 011002 WIND SPEED

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BUFR SECTION 4 (DATA), SUBSET 1

```

1 WMO BLOCK NUMBE      47.0000 NUMERIC
2 WMO STATION NUM     513.0000 NUMERIC
3 TYPE OF TERMODY      32.0000 CODE TABLE  2240
4 TYPE OF ROCKET       4.0000 CODE TABLE  2241
5 TYPE OF WIND SE      11.0000 CODE TABLE  2242
6 THERMODYNAMIC CO     3.0000 CODE TABLE  2243
7 WIND CORRECTION      .0000 CODE TABLE  2244
8 METHOD OF REDUC       2.0000 CODE TABLE  2245
9 YEAR                 2001.0000 YEAR
10 MONTH               2.0000 MONTH
11 DAY                 14.0000 DAY
12 HOUR                2.0000 HOUR
13 MINUTE              .0000 MINUTE
14 SECOND              .0000 SECOND
15 LATITUDE (HIGH     39.0300 DEGREE
16 LONGITUDE (HIGH    141.8300 DEGREE
17 DELAYED DESCRIP    14.0000 NUMERIC
18 PRESSURE            7000.0000 PA
19 GEOPOTENTIAL        177500.0000 M**2/S**2
20 TEMPERATURE/DRY    213.2000 K
21 WIND DIRECTION      250.0000 DEGREE TRUE
22 WIND SPEED          47.0000 M/S
23 PRESSURE            5000.0000 PA
24 GEOPOTENTIAL        198090.0000 M**2/S**2
25 TEMPERATURE/DRY    215.2000 K
26 WIND DIRECTION      250.0000 DEGREE TRUE
27 WIND SPEED          23.0000 M/S
28 PRESSURE            3000.0000 PA
29 GEOPOTENTIAL        229480.0000 M**2/S**2
30 TEMPERATURE/DRY    220.2000 K
31 WIND DIRECTION      240.0000 DEGREE TRUE
32 WIND SPEED          16.0000 M/S
33 PRESSURE            2000.0000 PA
34 GEOPOTENTIAL        254970.0000 M**2/S**2
35 TEMPERATURE/DRY    218.2000 K
36 WIND DIRECTION      220.0000 DEGREE TRUE
37 WIND SPEED          10.0000 M/S
38 PRESSURE            1000.0000 PA
39 GEOPOTENTIAL        300080.0000 M**2/S**2
40 TEMPERATURE/DRY    227.2000 K
41 WIND DIRECTION      180.0000 DEGREE TRUE
42 WIND SPEED          5.0000 M/S
43 PRESSURE            700.0000 PA
44 GEOPOTENTIAL        323620.0000 M**2/S**2
45 TEMPERATURE/DRY    234.2000 K
46 WIND DIRECTION      70.0000 DEGREE TRUE
47 WIND SPEED          6.0000 M/S
48 PRESSURE            500.0000 PA
49 GEOPOTENTIAL        346170.0000 M**2/S**2
50 TEMPERATURE/DRY    236.2000 K
51 WIND DIRECTION      100.0000 DEGREE TRUE
52 WIND SPEED          8.0000 M/S
53 PRESSURE            300.0000 PA
54 GEOPOTENTIAL        381480.0000 M**2/S**2
55 TEMPERATURE/DRY    244.2000 K
56 WIND DIRECTION      110.0000 DEGREE TRUE
57 WIND SPEED          4.0000 M/S
58 PRESSURE            200.0000 PA
59 GEOPOTENTIAL        409920.0000 M**2/S**2
60 TEMPERATURE/DRY    251.2000 K
61 WIND DIRECTION      310.0000 DEGREE TRUE
62 WIND SPEED          1.0000 M/S
63 PRESSURE            100.0000 PA
64 GEOPOTENTIAL        459930.0000 M**2/S**2
65 TEMPERATURE/DRY    256.2000 K
66 WIND DIRECTION      270.0000 DEGREE TRUE
67 WIND SPEED          33.0000 M/S
68 PRESSURE            70.0000 PA
69 GEOPOTENTIAL        486410.0000 M**2/S**2
70 TEMPERATURE/DRY    258.2000 K
71 WIND DIRECTION      270.0000 DEGREE TRUE
72 WIND SPEED          44.0000 M/S

```

| | | | |
|-----|-----------------|-------------|-------------|
| 73 | PRESSURE | 50.0000 | PA |
| 74 | GEOPOTENTIAL | 511910.0000 | M**2/S**2 |
| 75 | TEMPERATURE/DRY | 257.2000 | K |
| 76 | WIND DIRECTION | 260.0000 | DEGREE TRUE |
| 77 | WIND SPEED | 42.0000 | M/S |
| 78 | PRESSURE | 40.0000 | PA |
| 79 | GEOPOTENTIAL | 527600.0000 | M**2/S**2 |
| 80 | TEMPERATURE/DRY | 255.2000 | K |
| 81 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 82 | WIND SPEED | 44.0000 | M/S |
| 83 | PRESSURE | 30.0000 | PA |
| 84 | GEOPOTENTIAL | 549170.0000 | M**2/S**2 |
| 85 | TEMPERATURE/DRY | 252.2000 | K |
| 86 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 87 | WIND SPEED | 45.0000 | M/S |
| 88 | DELAYED DESCRIP | 37.0000 | NUMERIC |
| 89 | HEIGHT OR ALTIT | 20000.0000 | M |
| 90 | TEMPERATURE/DRY | 215.2000 | K |
| 91 | AIR DENSITY | .8410 | KG/M**3 |
| 92 | WIND DIRECTION | 250.0000 | DEGREE TRUE |
| 93 | WIND SPEED | 27.0000 | M/S |
| 94 | HEIGHT OR ALTIT | 21000.0000 | M |
| 95 | TEMPERATURE/DRY | 212.2000 | K |
| 96 | AIR DENSITY | .7270 | KG/M**3 |
| 97 | WIND DIRECTION | 240.0000 | DEGREE TRUE |
| 98 | WIND SPEED | 25.0000 | M/S |
| 99 | HEIGHT OR ALTIT | 22000.0000 | M |
| 100 | TEMPERATURE/DRY | 214.2000 | K |
| 101 | AIR DENSITY | .6150 | KG/M**3 |
| 102 | WIND DIRECTION | 240.0000 | DEGREE TRUE |
| 103 | WIND SPEED | 24.0000 | M/S |
| 104 | HEIGHT OR ALTIT | 23000.0000 | M |
| 105 | TEMPERATURE/DRY | 222.2000 | K |
| 106 | AIR DENSITY | .5070 | KG/M**3 |
| 107 | WIND DIRECTION | 240.0000 | DEGREE TRUE |
| 108 | WIND SPEED | 19.0000 | M/S |
| 109 | HEIGHT OR ALTIT | 24000.0000 | M |
| 110 | TEMPERATURE/DRY | 217.2000 | K |
| 111 | AIR DENSITY | .4450 | KG/M**3 |
| 112 | WIND DIRECTION | 240.0000 | DEGREE TRUE |
| 113 | WIND SPEED | 15.0000 | M/S |
| 114 | HEIGHT OR ALTIT | 25000.0000 | M |
| 115 | TEMPERATURE/DRY | 220.2000 | K |
| 116 | AIR DENSITY | .3760 | KG/M**3 |
| 117 | WIND DIRECTION | 260.0000 | DEGREE TRUE |
| 118 | WIND SPEED | 11.0000 | M/S |
| 119 | HEIGHT OR ALTIT | 26000.0000 | M |
| 120 | TEMPERATURE/DRY | 218.2000 | K |
| 121 | AIR DENSITY | .3250 | KG/M**3 |
| 122 | WIND DIRECTION | 220.0000 | DEGREE TRUE |
| 123 | WIND SPEED | 10.0000 | M/S |
| 124 | HEIGHT OR ALTIT | 27000.0000 | M |
| 125 | TEMPERATURE/DRY | 223.2000 | K |
| 126 | AIR DENSITY | .2730 | KG/M**3 |
| 127 | WIND DIRECTION | 210.0000 | DEGREE TRUE |
| 128 | WIND SPEED | 11.0000 | M/S |
| 129 | HEIGHT OR ALTIT | 28000.0000 | M |
| 130 | TEMPERATURE/DRY | 224.2000 | K |
| 131 | AIR DENSITY | .2330 | KG/M**3 |
| 132 | WIND DIRECTION | 210.0000 | DEGREE TRUE |
| 133 | WIND SPEED | 9.0000 | M/S |
| 134 | HEIGHT OR ALTIT | 29000.0000 | M |
| 135 | TEMPERATURE/DRY | 226.2000 | K |
| 136 | AIR DENSITY | .1990 | KG/M**3 |
| 137 | WIND DIRECTION | 210.0000 | DEGREE TRUE |
| 138 | WIND SPEED | 7.0000 | M/S |
| 139 | HEIGHT OR ALTIT | 30000.0000 | M |
| 140 | TEMPERATURE/DRY | 228.2000 | K |
| 141 | AIR DENSITY | .1700 | KG/M**3 |
| 142 | WIND DIRECTION | 170.0000 | DEGREE TRUE |
| 143 | WIND SPEED | 5.0000 | M/S |
| 144 | HEIGHT OR ALTIT | 31000.0000 | M |
| 145 | TEMPERATURE/DRY | 227.2000 | K |
| 146 | AIR DENSITY | .1480 | KG/M**3 |
| 147 | WIND DIRECTION | 190.0000 | DEGREE TRUE |
| 148 | WIND SPEED | 6.0000 | M/S |
| 149 | HEIGHT OR ALTIT | 32000.0000 | M |
| 150 | TEMPERATURE/DRY | 231.2000 | K |
| 151 | AIR DENSITY | .1250 | KG/M**3 |
| 152 | WIND DIRECTION | 180.0000 | DEGREE TRUE |
| 153 | WIND SPEED | 4.0000 | M/S |
| 154 | HEIGHT OR ALTIT | 33000.0000 | M |
| 155 | TEMPERATURE/DRY | 234.2000 | K |
| 156 | AIR DENSITY | .1070 | KG/M**3 |
| 157 | WIND DIRECTION | 80.0000 | DEGREE TRUE |
| 158 | WIND SPEED | 6.0000 | M/S |
| 159 | HEIGHT OR ALTIT | 34000.0000 | M |
| 160 | TEMPERATURE/DRY | 234.2000 | K |
| 161 | AIR DENSITY | .9210 | KG/M**3 |
| 162 | WIND DIRECTION | 70.0000 | DEGREE TRUE |
| 163 | WIND SPEED | 5.0000 | M/S |
| 164 | HEIGHT OR ALTIT | 35000.0000 | M |
| 165 | TEMPERATURE/DRY | 235.2000 | K |

| | | | |
|-----|-----------------|------------|-------------|
| 166 | AIR DENSITY | .7960 | KG/M**3 |
| 167 | WIND DIRECTION | 90.0000 | DEGREE TRUE |
| 168 | WIND SPEED | 7.0000 | M/S |
| 169 | HEIGHT OR ALTIT | 36000.0000 | M |
| 170 | TEMPERATURE/DRY | 237.2000 | K |
| 171 | AIR DENSITY | .6830 | KG/M**3 |
| 172 | WIND DIRECTION | 100.0000 | DEGREE TRUE |
| 173 | WIND SPEED | 9.0000 | M/S |
| 174 | HEIGHT OR ALTIT | 37000.0000 | M |
| 175 | TEMPERATURE/DRY | 237.2000 | K |
| 176 | AIR DENSITY | .5940 | KG/M**3 |
| 177 | WIND DIRECTION | 90.0000 | DEGREE TRUE |
| 178 | WIND SPEED | 7.0000 | M/S |
| 179 | HEIGHT OR ALTIT | 38000.0000 | M |
| 180 | TEMPERATURE/DRY | 239.2000 | K |
| 181 | AIR DENSITY | .5100 | KG/M**3 |
| 182 | WIND DIRECTION | 90.0000 | DEGREE TRUE |
| 183 | WIND SPEED | 6.0000 | M/S |
| 184 | HEIGHT OR ALTIT | 39000.0000 | M |
| 185 | TEMPERATURE/DRY | 243.2000 | K |
| 186 | AIR DENSITY | .4360 | KG/M**3 |
| 187 | WIND DIRECTION | 110.0000 | DEGREE TRUE |
| 188 | WIND SPEED | 5.0000 | M/S |
| 189 | HEIGHT OR ALTIT | 40000.0000 | M |
| 190 | TEMPERATURE/DRY | 248.2000 | K |
| 191 | AIR DENSITY | .3730 | KG/M**3 |
| 192 | WIND DIRECTION | 30.0000 | DEGREE TRUE |
| 193 | WIND SPEED | 4.0000 | M/S |
| 194 | HEIGHT OR ALTIT | 41000.0000 | M |
| 195 | TEMPERATURE/DRY | 249.2000 | K |
| 196 | AIR DENSITY | .3240 | KG/M**3 |
| 197 | WIND DIRECTION | 340.0000 | DEGREE TRUE |
| 198 | WIND SPEED | 4.0000 | M/S |
| 199 | HEIGHT OR ALTIT | 42000.0000 | M |
| 200 | TEMPERATURE/DRY | 251.2000 | K |
| 201 | AIR DENSITY | .2820 | KG/M**3 |
| 202 | WIND DIRECTION | 320.0000 | DEGREE TRUE |
| 203 | WIND SPEED | 2.0000 | M/S |
| 204 | HEIGHT OR ALTIT | 43000.0000 | M |
| 205 | TEMPERATURE/DRY | 252.2000 | K |
| 206 | AIR DENSITY | .2450 | KG/M**3 |
| 207 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 208 | WIND SPEED | 6.0000 | M/S |
| 209 | HEIGHT OR ALTIT | 44000.0000 | M |
| 210 | TEMPERATURE/DRY | 252.2000 | K |
| 211 | AIR DENSITY | .2140 | KG/M**3 |
| 212 | WIND DIRECTION | 250.0000 | DEGREE TRUE |
| 213 | WIND SPEED | 12.0000 | M/S |
| 214 | HEIGHT OR ALTIT | 45000.0000 | M |
| 215 | TEMPERATURE/DRY | 253.2000 | K |
| 216 | AIR DENSITY | .1870 | KG/M**3 |
| 217 | WIND DIRECTION | 260.0000 | DEGREE TRUE |
| 218 | WIND SPEED | 19.0000 | M/S |
| 219 | HEIGHT OR ALTIT | 46000.0000 | M |
| 220 | TEMPERATURE/DRY | 253.2000 | K |
| 221 | AIR DENSITY | .1630 | KG/M**3 |
| 222 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 223 | WIND SPEED | 26.0000 | M/S |
| 224 | HEIGHT OR ALTIT | 47000.0000 | M |
| 225 | TEMPERATURE/DRY | 255.2000 | K |
| 226 | AIR DENSITY | .1420 | KG/M**3 |
| 227 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 228 | WIND SPEED | 32.0000 | M/S |
| 229 | HEIGHT OR ALTIT | 48000.0000 | M |
| 230 | TEMPERATURE/DRY | 258.2000 | K |
| 231 | AIR DENSITY | .1230 | KG/M**3 |
| 232 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 233 | WIND SPEED | 39.0000 | M/S |
| 234 | HEIGHT OR ALTIT | 49000.0000 | M |
| 235 | TEMPERATURE/DRY | 260.2000 | K |
| 236 | AIR DENSITY | .1080 | KG/M**3 |
| 237 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 238 | WIND SPEED | 43.0000 | M/S |
| 239 | HEIGHT OR ALTIT | 50000.0000 | M |
| 240 | TEMPERATURE/DRY | 258.2000 | K |
| 241 | AIR DENSITY | .9510 | KG/M**3 |
| 242 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 243 | WIND SPEED | 44.0000 | M/S |
| 244 | HEIGHT OR ALTIT | 51000.0000 | M |
| 245 | TEMPERATURE/DRY | 255.2000 | K |
| 246 | AIR DENSITY | .8430 | KG/M**3 |
| 247 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 248 | WIND SPEED | 45.0000 | M/S |
| 249 | HEIGHT OR ALTIT | 52000.0000 | M |
| 250 | TEMPERATURE/DRY | 254.2000 | K |
| 251 | AIR DENSITY | .7410 | KG/M**3 |
| 252 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 253 | WIND SPEED | 43.0000 | M/S |
| 254 | HEIGHT OR ALTIT | 53000.0000 | M |
| 255 | TEMPERATURE/DRY | 257.2000 | K |
| 256 | AIR DENSITY | .6450 | KG/M**3 |
| 257 | WIND DIRECTION | 260.0000 | DEGREE TRUE |
| 258 | WIND SPEED | 43.0000 | M/S |



| | | | |
|-----|-----------------|------------|-------------|
| 259 | HEIGHT OR ALTIT | 54000.0000 | M |
| 260 | TEMPERATURE/DRY | 256.2000 | K |
| 261 | AIR DENSITY | .5670 | KG/M**3 |
| 262 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 263 | WIND SPEED | 45.0000 | M/S |
| 264 | HEIGHT OR ALTIT | 55000.0000 | M |
| 265 | TEMPERATURE/DRY | 254.2000 | K |
| 266 | AIR DENSITY | .5000 | KG/M**3 |
| 267 | WIND DIRECTION | 280.0000 | DEGREE TRUE |
| 268 | WIND SPEED | 42.0000 | M/S |
| 269 | HEIGHT OR ALTIT | 56000.0000 | M |
| 270 | TEMPERATURE/DRY | 253.2000 | K |
| 271 | AIR DENSITY | .4400 | KG/M**3 |
| 272 | WIND DIRECTION | 270.0000 | DEGREE TRUE |
| 273 | WIND SPEED | 41.0000 | M/S |



3.42 SSMI mapped data

RDB type 12, subtype 126

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|------|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 1116 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 12 |
| Bufr message subtype | 126 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 11 |
| Hour | 23 |
| Minute | 19 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|--------|
| RDB data type | 12 |
| RDB data subtype | 126 |
| Year | 2001 |
| Month | 2 |
| Day | 11 |
| Hour | 23 |
| Minute | 19 |
| Second | 0 |
| Latitude 1 | .00 |
| Longitude 1 | 91.70 |
| Latitude 2 | .60 |
| Longitude 2 | 108.32 |
| Number of observations | 74 |
| Identifier | 246 |
| Total Bufr message length | 1116 |
| Day (RDB insertion) | 14 |
| Hour (RDB insertion) | 1 |
| Minute (RDB insertion) | 39 |
| Second (RDB insertion) | 17 |
| Day (MDB arrival) | 14 |
| Hour (MDB arrival) | 1 |
| Minute (MDB arrival) | 35 |
| Second (MDB arrival) | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 58 |
| Reserved | 0 |
| Number of data subsets | 74 |
| Flag (data type/data compression) | 192 |

Data descriptors (unexpanded)

| | |
|---|--------|
| 1 | 001007 |
| 2 | 002195 |
| 3 | 004001 |
| 4 | 004002 |
| 5 | 004003 |
| 6 | 004004 |
| 7 | 004005 |
| 8 | 005040 |

9 005002
10 006002
11 005031
12 006031
13 020253
14 013194
15 013195
16 011002
17 013196
18 020254
19 020251
20 020252
21 013197
22 012061
23 013013
24 013198
25 020250

Data descriptors (expanded)

1 001007 SATELLITE IDENTIFIER
2 002195 TYPE OF SATELLITE INSTRUMENTATION
3 004001 YEAR
4 004002 MONTH
5 004003 DAY
6 004004 HOUR
7 004005 MINUTE
8 005040 ORBIT NUMBER
9 005002 LATITUDE (COARSE ACCURACY)
10 006002 LONGITUDE (COARSE ACCURACY)
11 005031 ROW NUMBER
12 006031 COLUMN NUMBER
13 020253 SURFACE TYPE
14 013194 TOTAL COLUMN WATER
15 013195 RAIN RATE
16 011002 WIND SPEED
17 013196 ANTECEDENT PRECIPITATION INDEX
18 020254 ICE CONCENTRATION
19 020251 ICE AGE
20 020252 ICE EDGE
21 013197 TOTAL COLUMN WATER VAPOUR
22 012061 SKIN TEMPERATURE
23 013013 TOTAL SNOW DEPTH
24 013198 RAIN FLAG
25 020250 CALCULATED SURFACE TYPE

BUFR SECTION 4 (DATA), SUBSET 1

| | | | | |
|----|-----------------|-----------|--------------------|-------|
| 1 | SATELLITE IDENT | 246.0000 | CODE TABLE | 1007 |
| 2 | TYPE OF SATELLI | 1.0000 | CODE TABLE | 2195 |
| 3 | YEAR | 1990.0000 | YEAR | |
| 4 | MONTH | 12.0000 | MONTH | |
| 5 | DAY | 31.0000 | DAY | |
| 6 | HOUR | 2.0000 | HOUR | |
| 7 | MINUTE | 5.0000 | MINUTE | |
| 8 | ORBIT NUMBER | 5421.0000 | NUMERIC | |
| 9 | LATITUDE (COARS | .0000 | DEGREE | |
| 10 | LONGITUDE (COAR | 108.3200 | DEGREE | |
| 11 | ROW NUMBER | 9.0000 | NUMERIC | |
| 12 | COLUMN NUMBER | 220.0000 | NUMERIC | |
| 13 | SURFACE TYPE | 5.0000 | CODE TABLE | 20253 |
| 14 | TOTAL COLUMN WA | .2000 | KG/M**2 | |
| 15 | RAIN RATE | .0000 | KG/M**2HOUR | |
| 16 | WIND SPEED | 9.6000 | M/S | |
| 17 | ANTECEDENT PREC | | MISSING KG/M**2 | |
| 18 | ICE CONCENTRATI | .0000 | % | |
| 19 | ICE AGE | | MISSING CODE TABLE | 20251 |
| 20 | ICE EDGE | | MISSING CODE TABLE | 20252 |
| 21 | TOTAL COLUMN WA | 61.5000 | KG/M**2 | |
| 22 | SKIN TEMPERATUR | | MISSING K | |
| 23 | TOTAL SNOW DEPT | | MISSING M | |
| 24 | RAIN FLAG | 1.0000 | CODE TABLE | 13198 |
| 25 | CALCULATED SURF | 5.0000 | CODE TABLE | 20250 |

3.43 TRMM brightness temperatures

RDB type 2, subtype 129

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|------|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 4294 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 3 |
| Bufr message subtype | 129 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 11 |
| Hour | 0 |
| Minute | 0 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|--------|
| RDB data type | 2 |
| RDB data subtype | 129 |
| Year | 2001 |
| Month | 2 |
| Day | 11 |
| Hour | 0 |
| Minute | 0 |
| Second | 4 |
| Latitude 1 | -37.25 |
| Longitude 1 | 158.77 |
| Latitude 2 | -30.43 |
| Longitude 2 | 158.77 |
| Number of observations | 208 |
| Identifier | 1022 |
| Total Bufr message length | 4294 |
| Day (RDB insertion) | 11 |
| Hour (RDB insertion) | 1 |
| Minute (RDB insertion) | 47 |
| Second (RDB insertion) | 31 |
| Day (MDB arrival) | 11 |
| Hour (MDB arrival) | 1 |
| Minute (MDB arrival) | 38 |
| Second (MDB arrival) | 45 |
| Correction number | 0 |
| Part of message | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 62 |
| Reserved | 0 |
| Number of data subsets | 208 |
| Flag (data type/data compression) | 192 |

Data descriptors (unexpanded)

| | |
|---|--------|
| 1 | 001007 |
| 2 | 005040 |
| 3 | 201133 |
| 4 | 005041 |
| 5 | 201000 |
| 6 | 030193 |
| 7 | 004001 |
| 8 | 004002 |

9 004003
10 004004
11 004005
12 004006
13 005002
14 006002
15 007001
16 007024
17 013202
18 008003
19 108009
20 002197
21 002198
22 002104
23 201132
24 202129
25 012063
26 201000
27 202000

Data descriptors (expanded)

1 001007 SATELLITE IDENTIFIER
2 005040 ORBIT NUMBER
3 005041 SCAN LINE NUMBER
4 030193 POSITION NUMBER ALONG SCAN
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 004006 SECOND
11 005002 LATITUDE (COARSE ACCURACY)
12 006002 LONGITUDE (COARSE ACCURACY)
13 007001 HEIGHT OF STATION
14 007024 SATELLITE ZENITH ANGLE
15 013202 TYPE OF SURFACE
16 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
17 002197 SATELLITE CHANNEL CENTRE FREQUENCY
18 002198 SATELLITE CHANNEL BAND WIDTH
19 002104 ANTENNA POLARISATION
20 012063 BRIGHTNESS TEMPERATURE
21 002197 SATELLITE CHANNEL CENTRE FREQUENCY
22 002198 SATELLITE CHANNEL BAND WIDTH
23 002104 ANTENNA POLARISATION
24 012063 BRIGHTNESS TEMPERATURE
25 002197 SATELLITE CHANNEL CENTRE FREQUENCY
26 002198 SATELLITE CHANNEL BAND WIDTH
27 002104 ANTENNA POLARISATION
28 012063 BRIGHTNESS TEMPERATURE
29 002197 SATELLITE CHANNEL CENTRE FREQUENCY
30 002198 SATELLITE CHANNEL BAND WIDTH
31 002104 ANTENNA POLARISATION
32 012063 BRIGHTNESS TEMPERATURE
33 002197 SATELLITE CHANNEL CENTRE FREQUENCY
34 002198 SATELLITE CHANNEL BAND WIDTH
35 002104 ANTENNA POLARISATION
36 012063 BRIGHTNESS TEMPERATURE
37 002197 SATELLITE CHANNEL CENTRE FREQUENCY
38 002198 SATELLITE CHANNEL BAND WIDTH
39 002104 ANTENNA POLARISATION
40 012063 BRIGHTNESS TEMPERATURE
41 002197 SATELLITE CHANNEL CENTRE FREQUENCY
42 002198 SATELLITE CHANNEL BAND WIDTH
43 002104 ANTENNA POLARISATION
44 012063 BRIGHTNESS TEMPERATURE
45 002197 SATELLITE CHANNEL CENTRE FREQUENCY
46 002198 SATELLITE CHANNEL BAND WIDTH
47 002104 ANTENNA POLARISATION
48 012063 BRIGHTNESS TEMPERATURE
49 002197 SATELLITE CHANNEL CENTRE FREQUENCY
50 002198 SATELLITE CHANNEL BAND WIDTH
51 002104 ANTENNA POLARISATION
52 012063 BRIGHTNESS TEMPERATURE

BUFR SECTION 4 (DATA), SUBSET 1

| | | | | |
|----|-----------------|-----------|--------------------|-------|
| 1 | SATELLITE IDENT | 1022.0000 | CODE TABLE | 1007 |
| 2 | ORBIT NUMBER | | MISSING NUMERIC | |
| 3 | SCAN LINE NUMBE | 1751.0000 | NUMERIC | |
| 4 | POSITION NUMBER | 1.0000 | NUMERIC | |
| 5 | YEAR | 2001.0000 | YEAR | |
| 6 | MONTH | 2.0000 | MONTH | |
| 7 | DAY | 11.0000 | DAY | |
| 8 | HOUR | .0000 | HOUR | |
| 9 | MINUTE | .0000 | MINUTE | |
| 10 | SECOND | 4.0000 | SECOND | |
| 11 | LATITUDE (COARS | -30.4300 | DEGREE | |
| 12 | LONGITUDE (COAR | 158.7700 | DEGREE | |
| 13 | HEIGHT OF STATI | .0000 | M | |
| 14 | SATELLITE ZENIT | 52.7500 | DEGREE | |
| 15 | TYPE OF SURFACE | | MISSING CODE TABLE | 13202 |



| | | | |
|--------------------|------------------|------------|------|
| 16 VERTICAL SIGNIF | 5.0000 | CODE TABLE | 8003 |
| 17 SATELLITE CHANN | 10700000256.0000 | Hz | |
| 18 SATELLITE CHANN | 100000000.0000 | Hz | |
| 19 ANTENNA POLARIS | 1.0000 | CODE TABLE | 2104 |
| 20 BRIGHTNESS TEMP | 168.4100 | K | |
| 21 SATELLITE CHANN | 10700000256.0000 | Hz | |
| 22 SATELLITE CHANN | 100000000.0000 | Hz | |
| 23 ANTENNA POLARIS | .0000 | CODE TABLE | 2104 |
| 24 BRIGHTNESS TEMP | 87.4200 | K | |
| 25 SATELLITE CHANN | 19399999488.0000 | Hz | |
| 26 SATELLITE CHANN | 500000000.0000 | Hz | |
| 27 ANTENNA POLARIS | 1.0000 | CODE TABLE | 2104 |
| 28 BRIGHTNESS TEMP | 197.4300 | K | |
| 29 SATELLITE CHANN | 19399999488.0000 | Hz | |
| 30 SATELLITE CHANN | 500000000.0000 | Hz | |
| 31 ANTENNA POLARIS | .0000 | CODE TABLE | 2104 |
| 32 BRIGHTNESS TEMP | 129.9100 | K | |
| 33 SATELLITE CHANN | 21300000768.0000 | Hz | |
| 34 SATELLITE CHANN | 200000000.0000 | Hz | |
| 35 ANTENNA POLARIS | 1.0000 | CODE TABLE | 2104 |
| 36 BRIGHTNESS TEMP | 220.4300 | K | |
| 37 SATELLITE CHANN | 36999999488.0000 | Hz | |
| 38 SATELLITE CHANN | 2000000000.0000 | Hz | |
| 39 ANTENNA POLARIS | 1.0000 | CODE TABLE | 2104 |
| 40 BRIGHTNESS TEMP | 212.0200 | K | |
| 41 SATELLITE CHANN | 36999999488.0000 | Hz | |
| 42 SATELLITE CHANN | 2000000000.0000 | Hz | |
| 43 ANTENNA POLARIS | .0000 | CODE TABLE | 2104 |
| 44 BRIGHTNESS TEMP | 147.6800 | K | |
| 45 SATELLITE CHANN | 85500002304.0000 | Hz | |
| 46 SATELLITE CHANN | 3000000000.0000 | Hz | |
| 47 ANTENNA POLARIS | 1.0000 | CODE TABLE | 2104 |
| 48 BRIGHTNESS TEMP | 258.4600 | K | |
| 49 SATELLITE CHANN | 85500002304.0000 | Hz | |
| 50 SATELLITE CHANN | 3000000000.0000 | Hz | |
| 51 ANTENNA POLARIS | .0000 | CODE TABLE | 2104 |
| 52 BRIGHTNESS TEMP | 222.9800 | K | |

3.44 TRMR rain data

RDB type 2, subtype 130

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|------|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 1092 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 3 |
| Bufr message subtype | 130 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 11 |
| Hour | 1 |
| Minute | 57 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|---------|
| RDB data type | 2 |
| RDB data subtype | 130 |
| Year | 2001 |
| Month | 2 |
| Day | 11 |
| Hour | 1 |
| Minute | 57 |
| Second | 33 |
| Latitude 1 | 12.68 |
| Longitude 1 | -136.79 |
| Latitude 2 | 18.45 |
| Longitude 2 | -136.79 |
| Number of observations | 208 |
| Identifier | 1022 |
| Total Bufr message length | 1092 |
| Day (RDB insertion) | 11 |
| Hour (RDB insertion) | 4 |
| Minute (RDB insertion) | 40 |
| Second (RDB insertion) | 2 |
| Day (MDB arrival) | 11 |
| Hour (MDB arrival) | 4 |
| Minute (MDB arrival) | 36 |
| Second (MDB arrival) | 21 |
| Correction number | 0 |
| Part of message | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 56 |
| Reserved | 0 |
| Number of data subsets | 208 |
| Flag (data type/data compression) | 192 |

Data descriptors (unexpanded)

| | |
|---|--------|
| 1 | 001007 |
| 2 | 005040 |
| 3 | 201133 |
| 4 | 005041 |
| 5 | 201000 |
| 6 | 030193 |
| 7 | 004001 |
| 8 | 004002 |

9 004003
 10 004004
 11 004005
 12 004006
 13 005002
 14 006002
 15 201132
 16 007001
 17 201000
 18 013202
 19 013209
 20 013208
 21 202130
 22 013205
 23 202000
 24 013206

Data descriptors (expanded)

1 001007 SATELLITE IDENTIFIER
 2 005040 ORBIT NUMBER
 3 005041 SCAN LINE NUMBER
 4 030193 POSITION NUMBER ALONG SCAN
 5 004001 YEAR
 6 004002 MONTH
 7 004003 DAY
 8 004004 HOUR
 9 004005 MINUTE
 10 004006 SECOND
 11 005002 LATITUDE (COARSE ACCURACY)
 12 006002 LONGITUDE (COARSE ACCURACY)
 13 007001 HEIGHT OF STATION
 14 013202 TYPE OF SURFACE
 15 013209 RAIN POSSIBILITY
 16 013208 SURFACE RAIN RATE (INSTANTANEOUS)
 17 013205 CLOUD LIQUID WATER PATH
 18 013206 TOTAL PRECIPITATION ICE CONTENT

BUFR SECTION 4 (DATA), SUBSET 1

| | | | |
|--------------------|-------------|--------------------|-------|
| 1 SATELLITE IDENT | 1022.0000 | CODE TABLE | 1007 |
| 2 ORBIT NUMBER | | MISSING NUMERIC | |
| 3 SCAN LINE NUMBE | 763.0000 | NUMERIC | |
| 4 POSITION NUMBER | 1.0000 | NUMERIC | |
| 5 YEAR | 2001.0000 | YEAR | |
| 6 MONTH | 2.0000 | MONTH | |
| 7 DAY | 11.0000 | DAY | |
| 8 HOUR | 1.0000 | HOUR | |
| 9 MINUTE | 57.0000 | MINUTE | |
| 10 SECOND | 33.0000 | SECOND | |
| 11 LATITUDE (COARS | 18.4200 | DEGREE | |
| 12 LONGITUDE (COAR | -136.7900 | DEGREE | |
| 13 HEIGHT OF STATI | 350000.0000 | M | |
| 14 TYPE OF SURFACE | | MISSING CODE TABLE | 13202 |
| 15 RAIN POSSIBILIT | 10.0000 | NUMERIC | |
| 16 SURFACE RAIN RA | .0000 | KG/M**2*S | |
| 17 CLOUD LIQUID WA | .0000 | KG/M**2 | |
| 18 TOTAL PRECIPITA | .0000 | KG/M**2 | |

3.45 Driftr oceanographic

RDB type 6, subtype 131

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|-----|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 638 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 31 |
| Bufr message subtype | 131 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 12 |
| Hour | 8 |
| Minute | 42 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|--------|
| RDB data type | 6 |
| RDB data subtype | 131 |
| Year | 2001 |
| Month | 2 |
| Day | 12 |
| Hour | 8 |
| Minute | 42 |
| Second | 0 |
| Latitude 1 | 38.03 |
| Longitude 1 | 167.74 |
| Identifier | 29005 |
| Total Bufr message length | 638 |
| Day (RDB insertion) | 15 |
| Hour (RDB insertion) | 6 |
| Minute (RDB insertion) | 33 |
| Second (RDB insertion) | 7 |
| Day (MDB arrival) | 15 |
| Hour (MDB arrival) | 6 |
| Minute (MDB arrival) | 31 |
| Second (MDB arrival) | 26 |
| Correction number | 0 |
| Part of message | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 34 |
| Reserved | 0 |
| Number of data subsets | 1 |
| Flag (data type/data compression) | 128 |

Data descriptors (unexpanded)

| | |
|----|--------|
| 1 | 301035 |
| 2 | 022001 |
| 3 | 022011 |
| 4 | 022021 |
| 5 | 306004 |
| 6 | 306005 |
| 7 | 222000 |
| 8 | 101184 |
| 9 | 031031 |
| 10 | 001031 |
| 11 | 001201 |

12 101184
13 033007

Data descriptors (expanded)

1 001005 BUOY/PLATFORM IDENTIFIER
2 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
3 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
4 002001 TYPE OF STATION
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 005002 LATITUDE (COARSE ACCURACY)
11 006002 LONGITUDE (COARSE ACCURACY)
12 022001 DIRECTION OF WAVES
13 022011 PERIOD OF WAVES
14 022021 HEIGHT OF WAVES
15 002032 INDICATOR FOR DIGITIZATION
16 002033 METHOD OF SALINITY/DEPTH MEASUREMENT
17 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
18 007062 DEPTH BELOW SEA/WATER SURFACE
19 022043 SEA/WATER TEMPERATURE
20 022062 SALINITY
21 007062 DEPTH BELOW SEA/WATER SURFACE
22 022043 SEA/WATER TEMPERATURE
23 022062 SALINITY
24 007062 DEPTH BELOW SEA/WATER SURFACE
25 022043 SEA/WATER TEMPERATURE
26 022062 SALINITY
27 007062 DEPTH BELOW SEA/WATER SURFACE
28 022043 SEA/WATER TEMPERATURE
29 022062 SALINITY
30 007062 DEPTH BELOW SEA/WATER SURFACE
31 022043 SEA/WATER TEMPERATURE
32 022062 SALINITY
33 007062 DEPTH BELOW SEA/WATER SURFACE
34 022043 SEA/WATER TEMPERATURE
35 022062 SALINITY
36 007062 DEPTH BELOW SEA/WATER SURFACE
37 022043 SEA/WATER TEMPERATURE
38 022062 SALINITY
39 007062 DEPTH BELOW SEA/WATER SURFACE
40 022043 SEA/WATER TEMPERATURE
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42 007062 DEPTH BELOW SEA/WATER SURFACE
43 022043 SEA/WATER TEMPERATURE
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46 022043 SEA/WATER TEMPERATURE
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84 007062 DEPTH BELOW SEA/WATER SURFACE
85 022043 SEA/WATER TEMPERATURE
86 022062 SALINITY
87 007062 DEPTH BELOW SEA/WATER SURFACE

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| 88 | 022043 | SEA/WATER TEMPERATURE |
| 89 | 022062 | SALINITY |
| 90 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 91 | 022043 | SEA/WATER TEMPERATURE |
| 92 | 022062 | SALINITY |
| 93 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 94 | 022043 | SEA/WATER TEMPERATURE |
| 95 | 022062 | SALINITY |
| 96 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 97 | 022043 | SEA/WATER TEMPERATURE |
| 98 | 022062 | SALINITY |
| 99 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 100 | 022043 | SEA/WATER TEMPERATURE |
| 101 | 022062 | SALINITY |
| 102 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 103 | 022043 | SEA/WATER TEMPERATURE |
| 104 | 022062 | SALINITY |
| 105 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 106 | 022043 | SEA/WATER TEMPERATURE |
| 107 | 022062 | SALINITY |
| 108 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 109 | 022043 | SEA/WATER TEMPERATURE |
| 110 | 022062 | SALINITY |
| 111 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 112 | 022043 | SEA/WATER TEMPERATURE |
| 113 | 022062 | SALINITY |
| 114 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 115 | 022043 | SEA/WATER TEMPERATURE |
| 116 | 022062 | SALINITY |
| 117 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 118 | 022043 | SEA/WATER TEMPERATURE |
| 119 | 022062 | SALINITY |
| 120 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 121 | 022043 | SEA/WATER TEMPERATURE |
| 122 | 022062 | SALINITY |
| 123 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 124 | 022043 | SEA/WATER TEMPERATURE |
| 125 | 022062 | SALINITY |
| 126 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 127 | 022043 | SEA/WATER TEMPERATURE |
| 128 | 022062 | SALINITY |
| 129 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 130 | 022043 | SEA/WATER TEMPERATURE |
| 131 | 022062 | SALINITY |
| 132 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 133 | 022043 | SEA/WATER TEMPERATURE |
| 134 | 022062 | SALINITY |
| 135 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 136 | 022043 | SEA/WATER TEMPERATURE |
| 137 | 022062 | SALINITY |
| 138 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 139 | 022043 | SEA/WATER TEMPERATURE |
| 140 | 022062 | SALINITY |
| 141 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 142 | 022043 | SEA/WATER TEMPERATURE |
| 143 | 022062 | SALINITY |
| 144 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 145 | 022043 | SEA/WATER TEMPERATURE |
| 146 | 022062 | SALINITY |
| 147 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 148 | 022043 | SEA/WATER TEMPERATURE |
| 149 | 022062 | SALINITY |
| 150 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 151 | 022043 | SEA/WATER TEMPERATURE |
| 152 | 022062 | SALINITY |
| 153 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 154 | 022043 | SEA/WATER TEMPERATURE |
| 155 | 022062 | SALINITY |
| 156 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 157 | 022043 | SEA/WATER TEMPERATURE |
| 158 | 022062 | SALINITY |
| 159 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 160 | 022043 | SEA/WATER TEMPERATURE |
| 161 | 022062 | SALINITY |
| 162 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 163 | 022043 | SEA/WATER TEMPERATURE |
| 164 | 022062 | SALINITY |
| 165 | 002031 | DURATION AND TIME OF CURRENT MEASUREMENT |
| 166 | 031001 | DELAYED DESCRIPTOR REPLICATION FACTOR |
| 167 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 168 | 022004 | DIRECTION OF CURRENT |
| 169 | 022031 | SPEED OF CURRENT |
| 170 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 171 | 022004 | DIRECTION OF CURRENT |
| 172 | 022031 | SPEED OF CURRENT |
| 173 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 174 | 022004 | DIRECTION OF CURRENT |
| 175 | 022031 | SPEED OF CURRENT |
| 176 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 177 | 022004 | DIRECTION OF CURRENT |
| 178 | 022031 | SPEED OF CURRENT |
| 179 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 180 | 022004 | DIRECTION OF CURRENT |

181 022031 SPEED OF CURRENT
182 007062 DEPTH BELOW SEA/WATER SURFACE
183 022004 DIRECTION OF CURRENT
184 022031 SPEED OF CURRENT
185 222000 QUALITY INFORMATION FOLLOW
186 031031 DATA PRESENT INDICATOR
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367 031031 DATA PRESENT INDICATOR
368 031031 DATA PRESENT INDICATOR
369 031031 DATA PRESENT INDICATOR
370 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
371 001201 GENERATING APPLICATION
372 033007 % CONFIDENCE
373 033007 % CONFIDENCE
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BUFR SECTION 4 (DATA), SUBSET 1

| | | | |
|----|-----------------|------------|-------------------------|
| 1 | BUOY/PLATFORM I | 29005.0000 | NUMERIC |
| 2 | DIRECTION OF MO | | MISSING DEGREE TRUE |
| 3 | SPEED OF MOTION | .0000 | M/S |
| 4 | TYPE OF STATION | | MISSING CODE TABLE 2001 |
| 5 | YEAR | 2001.0000 | YEAR |
| 6 | MONTH | 2.0000 | MONTH |
| 7 | DAY | 12.0000 | DAY |
| 8 | HOUR | 8.0000 | HOUR |
| 9 | MINUTE | 42.0000 | MINUTE |
| 10 | LATITUDE (COARS | 38.0300 | DEGREE |
| 11 | LONGITUDE (COAR | 167.7400 | DEGREE |
| 12 | DIRECTION OF WA | | MISSING DEGREE TRUE |
| 13 | PERIOD OF WAVES | | MISSING S |
| 14 | HEIGHT OF WAVES | | MISSING M |
| 15 | INDICATOR FOR D | | MISSING CODE TABLE 2032 |
| 16 | METHOD OF SALIN | | MISSING CODE TABLE 2033 |
| 17 | DELAYED DESCRIP | 49.0000 | NUMERIC |
| 18 | DEPTH BELOW SEA | .0000 | M |
| 19 | SEA/WATER TEMPE | 285.0200 | K |
| 20 | SALINITY | | MISSING %. |
| 21 | DEPTH BELOW SEA | 5.0000 | M |
| 22 | SEA/WATER TEMPE | 285.0300 | K |
| 23 | SALINITY | | MISSING %. |
| 24 | DEPTH BELOW SEA | 10.0000 | M |
| 25 | SEA/WATER TEMPE | 285.0400 | K |
| 26 | SALINITY | | MISSING %. |
| 27 | DEPTH BELOW SEA | 15.0000 | M |
| 28 | SEA/WATER TEMPE | 285.0400 | K |
| 29 | SALINITY | | MISSING %. |
| 30 | DEPTH BELOW SEA | 21.0000 | M |
| 31 | SEA/WATER TEMPE | 285.0300 | K |
| 32 | SALINITY | | MISSING %. |
| 33 | DEPTH BELOW SEA | 26.0000 | M |
| 34 | SEA/WATER TEMPE | 285.0300 | K |
| 35 | SALINITY | | MISSING %. |
| 36 | DEPTH BELOW SEA | 31.0000 | M |
| 37 | SEA/WATER TEMPE | 285.0400 | K |
| 38 | SALINITY | | MISSING %. |
| 39 | DEPTH BELOW SEA | 36.0000 | M |
| 40 | SEA/WATER TEMPE | 285.0400 | K |
| 41 | SALINITY | | MISSING %. |
| 42 | DEPTH BELOW SEA | 41.0000 | M |
| 43 | SEA/WATER TEMPE | 285.0400 | K |
| 44 | SALINITY | | MISSING %. |
| 45 | DEPTH BELOW SEA | 46.0000 | M |
| 46 | SEA/WATER TEMPE | 285.0300 | K |
| 47 | SALINITY | | MISSING %. |
| 48 | DEPTH BELOW SEA | 51.0000 | M |
| 49 | SEA/WATER TEMPE | 285.0200 | K |
| 50 | SALINITY | | MISSING %. |
| 51 | DEPTH BELOW SEA | 57.0000 | M |
| 52 | SEA/WATER TEMPE | 285.0200 | K |
| 53 | SALINITY | | MISSING %. |
| 54 | DEPTH BELOW SEA | 62.0000 | M |
| 55 | SEA/WATER TEMPE | 285.0200 | K |
| 56 | SALINITY | | MISSING %. |
| 57 | DEPTH BELOW SEA | 67.0000 | M |
| 58 | SEA/WATER TEMPE | 284.9900 | K |
| 59 | SALINITY | | MISSING %. |
| 60 | DEPTH BELOW SEA | 72.0000 | M |
| 61 | SEA/WATER TEMPE | 284.9700 | K |
| 62 | SALINITY | | MISSING %. |
| 63 | DEPTH BELOW SEA | 77.0000 | M |
| 64 | SEA/WATER TEMPE | 284.9700 | K |
| 65 | SALINITY | | MISSING %. |
| 66 | DEPTH BELOW SEA | 82.0000 | M |
| 67 | SEA/WATER TEMPE | 284.9500 | K |
| 68 | SALINITY | | MISSING %. |
| 69 | DEPTH BELOW SEA | 87.0000 | M |
| 70 | SEA/WATER TEMPE | 284.8600 | K |
| 71 | SALINITY | | MISSING %. |
| 72 | DEPTH BELOW SEA | 93.0000 | M |
| 73 | SEA/WATER TEMPE | 284.7000 | K |
| 74 | SALINITY | | MISSING %. |
| 75 | DEPTH BELOW SEA | 98.0000 | M |
| 76 | SEA/WATER TEMPE | 284.5000 | K |
| 77 | SALINITY | | MISSING %. |
| 78 | DEPTH BELOW SEA | 103.0000 | M |
| 79 | SEA/WATER TEMPE | 284.2000 | K |
| 80 | SALINITY | | MISSING %. |
| 81 | DEPTH BELOW SEA | 108.0000 | M |
| 82 | SEA/WATER TEMPE | 284.0200 | K |
| 83 | SALINITY | | MISSING %. |
| 84 | DEPTH BELOW SEA | 113.0000 | M |
| 85 | SEA/WATER TEMPE | 283.9100 | K |
| 86 | SALINITY | | MISSING %. |
| 87 | DEPTH BELOW SEA | 118.0000 | M |

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| 88 | SEA/WATER TEMPE | 283.8100 | K |
| 89 | SALINITY | MISSING | % |
| 90 | DEPTH BELOW SEA | 123.0000 | M |
| 91 | SEA/WATER TEMPE | 283.7700 | K |
| 92 | SALINITY | MISSING | % |
| 93 | DEPTH BELOW SEA | 129.0000 | M |
| 94 | SEA/WATER TEMPE | 283.6000 | K |
| 95 | SALINITY | MISSING | % |
| 96 | DEPTH BELOW SEA | 134.0000 | M |
| 97 | SEA/WATER TEMPE | 283.5100 | K |
| 98 | SALINITY | MISSING | % |
| 99 | DEPTH BELOW SEA | 139.0000 | M |
| 100 | SEA/WATER TEMPE | 283.4500 | K |
| 101 | SALINITY | MISSING | % |
| 102 | DEPTH BELOW SEA | 144.0000 | M |
| 103 | SEA/WATER TEMPE | 283.3800 | K |
| 104 | SALINITY | MISSING | % |
| 105 | DEPTH BELOW SEA | 149.0000 | M |
| 106 | SEA/WATER TEMPE | 283.3000 | K |
| 107 | SALINITY | MISSING | % |
| 108 | DEPTH BELOW SEA | 154.0000 | M |
| 109 | SEA/WATER TEMPE | 283.2500 | K |
| 110 | SALINITY | MISSING | % |
| 111 | DEPTH BELOW SEA | 159.0000 | M |
| 112 | SEA/WATER TEMPE | 283.2400 | K |
| 113 | SALINITY | MISSING | % |
| 114 | DEPTH BELOW SEA | 164.0000 | M |
| 115 | SEA/WATER TEMPE | 283.2100 | K |
| 116 | SALINITY | MISSING | % |
| 117 | DEPTH BELOW SEA | 170.0000 | M |
| 118 | SEA/WATER TEMPE | 282.9800 | K |
| 119 | SALINITY | MISSING | % |
| 120 | DEPTH BELOW SEA | 175.0000 | M |
| 121 | SEA/WATER TEMPE | 282.8300 | K |
| 122 | SALINITY | MISSING | % |
| 123 | DEPTH BELOW SEA | 180.0000 | M |
| 124 | SEA/WATER TEMPE | 282.7600 | K |
| 125 | SALINITY | MISSING | % |
| 126 | DEPTH BELOW SEA | 185.0000 | M |
| 127 | SEA/WATER TEMPE | 282.6900 | K |
| 128 | SALINITY | MISSING | % |
| 129 | DEPTH BELOW SEA | 190.0000 | M |
| 130 | SEA/WATER TEMPE | 282.6100 | K |
| 131 | SALINITY | MISSING | % |
| 132 | DEPTH BELOW SEA | 195.0000 | M |
| 133 | SEA/WATER TEMPE | 282.5200 | K |
| 134 | SALINITY | MISSING | % |
| 135 | DEPTH BELOW SEA | 200.0000 | M |
| 136 | SEA/WATER TEMPE | 282.4600 | K |
| 137 | SALINITY | MISSING | % |
| 138 | DEPTH BELOW SEA | 206.0000 | M |
| 139 | SEA/WATER TEMPE | 282.4400 | K |
| 140 | SALINITY | MISSING | % |
| 141 | DEPTH BELOW SEA | 211.0000 | M |
| 142 | SEA/WATER TEMPE | 282.3900 | K |
| 143 | SALINITY | MISSING | % |
| 144 | DEPTH BELOW SEA | 216.0000 | M |
| 145 | SEA/WATER TEMPE | 282.3500 | K |
| 146 | SALINITY | MISSING | % |
| 147 | DEPTH BELOW SEA | 221.0000 | M |
| 148 | SEA/WATER TEMPE | 282.3200 | K |
| 149 | SALINITY | MISSING | % |
| 150 | DEPTH BELOW SEA | 226.0000 | M |
| 151 | SEA/WATER TEMPE | 282.3400 | K |
| 152 | SALINITY | MISSING | % |
| 153 | DEPTH BELOW SEA | 231.0000 | M |
| 154 | SEA/WATER TEMPE | 282.3600 | K |
| 155 | SALINITY | MISSING | % |
| 156 | DEPTH BELOW SEA | 236.0000 | M |
| 157 | SEA/WATER TEMPE | 282.2800 | K |
| 158 | SALINITY | MISSING | % |
| 159 | DEPTH BELOW SEA | 242.0000 | M |
| 160 | SEA/WATER TEMPE | 282.2500 | K |
| 161 | SALINITY | MISSING | % |
| 162 | DEPTH BELOW SEA | 247.0000 | M |
| 163 | SEA/WATER TEMPE | 282.1600 | K |
| 164 | SALINITY | MISSING | % |
| 165 | DURATION AND TI | 2.0000 | CODE TABLE 2031 |
| 166 | DELAYED DESCRIP | 6.0000 | NUMERIC |
| 167 | DEPTH BELOW SEA | 3.0000 | M |
| 168 | DIRECTION OF CU | 436.0000 | DEGREE TRUE |
| 169 | SPEED OF CURREN | MISSING | M/S |
| 170 | DEPTH BELOW SEA | 2.0000 | M |
| 171 | DIRECTION OF CU | 478.0000 | DEGREE TRUE |
| 172 | SPEED OF CURREN | .0300 | M/S |
| 173 | DEPTH BELOW SEA | 3.0000 | M |
| 174 | DIRECTION OF CU | 86.0000 | DEGREE TRUE |
| 175 | SPEED OF CURREN | MISSING | M/S |
| 176 | DEPTH BELOW SEA | 2.0000 | M |
| 177 | DIRECTION OF CU | 166.0000 | DEGREE TRUE |
| 178 | SPEED OF CURREN | .0300 | M/S |
| 179 | DEPTH BELOW SEA | 70.0000 | M |
| 180 | DIRECTION OF CU | MISSING | DEGREE TRUE |

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181 SPEED OF CURREN      70.0000 M/S
182 DEPTH BELOW SEA      MISSING M
183 DIRECTION OF CU      70.0000 DEGREE TRUE
184 SPEED OF CURREN      70.0000 M/S
185 QUALITY INFORMA      .0000
186 DATA PRESENT IN     .0000 NUMERIC
187 DATA PRESENT IN     .0000 NUMERIC
188 DATA PRESENT IN     .0000 NUMERIC
189 DATA PRESENT IN     .0000 NUMERIC
190 DATA PRESENT IN     .0000 NUMERIC
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270 DATA PRESENT IN     .0000 NUMERIC
271 DATA PRESENT IN     .0000 NUMERIC
272 DATA PRESENT IN     .0000 NUMERIC
273 DATA PRESENT IN     .0000 NUMERIC
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| 367 DATA PRESENT IN | .0000 | NUMERIC | |
| 368 DATA PRESENT IN | .0000 | NUMERIC | |
| 369 DATA PRESENT IN | .0000 | NUMERIC | |
| 370 IDENTIFICATION | 98.0000 | CODE TABLE | 1031 |
| 371 GENERATING APPL | 1.0000 | CODE TABLE | 1201 |
| 372 % CONFIDENCE | 70.0000 | NUMERIC | |
| 373 % CONFIDENCE | 70.0000 | NUMERIC | |
| 374 % CONFIDENCE | 70.0000 | NUMERIC | |
| 375 % CONFIDENCE | 70.0000 | NUMERIC | |
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553 % CONFIDENCE 70.0000 NUMERIC
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3.46 Bathy oceanographic

RDB type 6, subtype 132

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|-----|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 426 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 31 |
| Bufr message subtype | 132 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 12 |
| Hour | 3 |
| Minute | 6 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|--------|
| RDB data type | 6 |
| RDB data subtype | 132 |
| Year | 2001 |
| Month | 2 |
| Day | 12 |
| Hour | 3 |
| Minute | 6 |
| Second | 0 |
| Latitude 1 | 40.40 |
| Longitude 1 | 145.50 |
| Identifier | JDWX |
| Total Bufr message length | 426 |
| Day (RDB insertion) | 12 |
| Hour (RDB insertion) | 5 |
| Minute (RDB insertion) | 52 |
| Second (RDB insertion) | 16 |
| Day (MDB arrival) | 12 |
| Hour (MDB arrival) | 5 |
| Minute (MDB arrival) | 52 |
| Second (MDB arrival) | 2 |
| Correction number | 0 |
| Part of message | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 26 |
| Reserved | 0 |
| Number of data subsets | 1 |
| Flag (data type/data compression) | 128 |

Data descriptors (unexpanded)

| | |
|---|--------|
| 1 | 315001 |
| 2 | 306002 |
| 3 | 222000 |
| 4 | 101111 |
| 5 | 031031 |
| 6 | 001031 |
| 7 | 001201 |
| 8 | 101111 |
| 9 | 033007 |

Data descriptors (expanded)

| | | |
|----|--------|--|
| 1 | 001011 | SHIP OR MOBILE LAND STATION IDENTIFIER |
| 2 | 004001 | YEAR |
| 3 | 004002 | MONTH |
| 4 | 004003 | DAY |
| 5 | 004004 | HOUR |
| 6 | 004005 | MINUTE |
| 7 | 005002 | LATITUDE (COARSE ACCURACY) |
| 8 | 006002 | LONGITUDE (COARSE ACCURACY) |
| 9 | 002032 | INDICATOR FOR DIGITIZATION |
| 10 | 031001 | DELAYED DESCRIPTOR REPLICATION FACTOR |
| 11 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 12 | 022042 | SEA/WATER TEMPERATURE |
| 13 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 14 | 022042 | SEA/WATER TEMPERATURE |
| 15 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 16 | 022042 | SEA/WATER TEMPERATURE |
| 17 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 18 | 022042 | SEA/WATER TEMPERATURE |
| 19 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 20 | 022042 | SEA/WATER TEMPERATURE |
| 21 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 22 | 022042 | SEA/WATER TEMPERATURE |
| 23 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 24 | 022042 | SEA/WATER TEMPERATURE |
| 25 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 26 | 022042 | SEA/WATER TEMPERATURE |
| 27 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 28 | 022042 | SEA/WATER TEMPERATURE |
| 29 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 30 | 022042 | SEA/WATER TEMPERATURE |
| 31 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 32 | 022042 | SEA/WATER TEMPERATURE |
| 33 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 34 | 022042 | SEA/WATER TEMPERATURE |
| 35 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 36 | 022042 | SEA/WATER TEMPERATURE |
| 37 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 38 | 022042 | SEA/WATER TEMPERATURE |
| 39 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 40 | 022042 | SEA/WATER TEMPERATURE |
| 41 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 42 | 022042 | SEA/WATER TEMPERATURE |
| 43 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 44 | 022042 | SEA/WATER TEMPERATURE |
| 45 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 46 | 022042 | SEA/WATER TEMPERATURE |
| 47 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 48 | 022042 | SEA/WATER TEMPERATURE |
| 49 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 50 | 022042 | SEA/WATER TEMPERATURE |
| 51 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 52 | 022042 | SEA/WATER TEMPERATURE |
| 53 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 54 | 022042 | SEA/WATER TEMPERATURE |
| 55 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 56 | 022042 | SEA/WATER TEMPERATURE |
| 57 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 58 | 022042 | SEA/WATER TEMPERATURE |
| 59 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 60 | 022042 | SEA/WATER TEMPERATURE |
| 61 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 62 | 022042 | SEA/WATER TEMPERATURE |
| 63 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 64 | 022042 | SEA/WATER TEMPERATURE |
| 65 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 66 | 022042 | SEA/WATER TEMPERATURE |
| 67 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 68 | 022042 | SEA/WATER TEMPERATURE |
| 69 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 70 | 022042 | SEA/WATER TEMPERATURE |
| 71 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 72 | 022042 | SEA/WATER TEMPERATURE |
| 73 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 74 | 022042 | SEA/WATER TEMPERATURE |
| 75 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 76 | 022042 | SEA/WATER TEMPERATURE |
| 77 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 78 | 022042 | SEA/WATER TEMPERATURE |
| 79 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 80 | 022042 | SEA/WATER TEMPERATURE |
| 81 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 82 | 022042 | SEA/WATER TEMPERATURE |
| 83 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 84 | 022042 | SEA/WATER TEMPERATURE |
| 85 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 86 | 022042 | SEA/WATER TEMPERATURE |
| 87 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 88 | 022042 | SEA/WATER TEMPERATURE |
| 89 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 90 | 022042 | SEA/WATER TEMPERATURE |
| 91 | 007062 | DEPTH BELOW SEA/WATER SURFACE |

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| 92 | 022042 | SEA/WATER TEMPERATURE |
| 93 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 94 | 022042 | SEA/WATER TEMPERATURE |
| 95 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 96 | 022042 | SEA/WATER TEMPERATURE |
| 97 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 98 | 022042 | SEA/WATER TEMPERATURE |
| 99 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 100 | 022042 | SEA/WATER TEMPERATURE |
| 101 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 102 | 022042 | SEA/WATER TEMPERATURE |
| 103 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 104 | 022042 | SEA/WATER TEMPERATURE |
| 105 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 106 | 022042 | SEA/WATER TEMPERATURE |
| 107 | 007062 | DEPTH BELOW SEA/WATER SURFACE |
| 108 | 022042 | SEA/WATER TEMPERATURE |
| 109 | 002031 | DURATION AND TIME OF CURRENT MEASUREMENT |
| 110 | 022004 | DIRECTION OF CURRENT |
| 111 | 022031 | SPEED OF CURRENT |
| 112 | 222000 | QUALITY INFORMATION FOLLOW |
| 113 | 031031 | DATA PRESENT INDICATOR |
| 114 | 031031 | DATA PRESENT INDICATOR |
| 115 | 031031 | DATA PRESENT INDICATOR |
| 116 | 031031 | DATA PRESENT INDICATOR |
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| 167 | 031031 | DATA PRESENT INDICATOR |
| 168 | 031031 | DATA PRESENT INDICATOR |
| 169 | 031031 | DATA PRESENT INDICATOR |
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222 031031 DATA PRESENT INDICATOR
223 031031 DATA PRESENT INDICATOR
224 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
225 001201 GENERATING APPLICATION
226 033007 % CONFIDENCE
227 033007 % CONFIDENCE
228 033007 % CONFIDENCE
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BUFR SECTION 4 (DATA), SUBSET 1

| | | | |
|--------------------|-----------|------------|------|
| 1 SHIP OR MOBILE | 1009.0000 | CCITIA5 | JDWX |
| 2 YEAR | 2001.0000 | YEAR | |
| 3 MONTH | 2.0000 | MONTH | |
| 4 DAY | 12.0000 | DAY | |
| 5 HOUR | 3.0000 | HOUR | |
| 6 MINUTE | 6.0000 | MINUTE | |
| 7 LATITUDE (COARS | 40.4000 | DEGREE | |
| 8 LONGITUDE (COAR | 145.5000 | DEGREE | |
| 9 INDICATOR FOR D | 2.0000 | CODE TABLE | 2032 |
| 10 DELAYED DESCRIP | 49.0000 | NUMERIC | |
| 11 DEPTH BELOW SEA | 74.0000 | M | |
| 12 SEA/WATER TEMPE | 287.8000 | K | |
| 13 DEPTH BELOW SEA | 20.0000 | M | |
| 14 SEA/WATER TEMPE | 273.6000 | K | |
| 15 DEPTH BELOW SEA | 30.0000 | M | |
| 16 SEA/WATER TEMPE | 265.7000 | K | |
| 17 DEPTH BELOW SEA | 43.0000 | M | |
| 18 SEA/WATER TEMPE | 308.1000 | K | |
| 19 DEPTH BELOW SEA | 20.0000 | M | |
| 20 SEA/WATER TEMPE | 281.2000 | K | |
| 21 DEPTH BELOW SEA | 30.0000 | M | |
| 22 SEA/WATER TEMPE | 265.8000 | K | |
| 23 DEPTH BELOW SEA | 43.0000 | M | |
| 24 SEA/WATER TEMPE | 309.5000 | K | |
| 25 DEPTH BELOW SEA | 20.0000 | M | |
| 26 SEA/WATER TEMPE | 283.3000 | K | |
| 27 DEPTH BELOW SEA | 30.0000 | M | |
| 28 SEA/WATER TEMPE | 271.3000 | K | |
| 29 DEPTH BELOW SEA | 43.0000 | M | |
| 30 SEA/WATER TEMPE | 308.8000 | K | |
| 31 DEPTH BELOW SEA | 20.0000 | M | |

| | | | |
|-----|-----------------|----------|-----------------|
| 32 | SEA/WATER TEMPE | 292.4000 | K |
| 33 | DEPTH BELOW SEA | 30.0000 | M |
| 34 | SEA/WATER TEMPE | 295.8000 | K |
| 35 | DEPTH BELOW SEA | 43.0000 | M |
| 36 | SEA/WATER TEMPE | 306.0000 | K |
| 37 | DEPTH BELOW SEA | 20.0000 | M |
| 38 | SEA/WATER TEMPE | 294.6000 | K |
| 39 | DEPTH BELOW SEA | 30.0000 | M |
| 40 | SEA/WATER TEMPE | 303.0000 | K |
| 41 | DEPTH BELOW SEA | 43.0000 | M |
| 42 | SEA/WATER TEMPE | 307.2000 | K |
| 43 | DEPTH BELOW SEA | 20.0000 | M |
| 44 | SEA/WATER TEMPE | 295.2000 | K |
| 45 | DEPTH BELOW SEA | 30.0000 | M |
| 46 | SEA/WATER TEMPE | 311.9000 | K |
| 47 | DEPTH BELOW SEA | 43.0000 | M |
| 48 | SEA/WATER TEMPE | 308.7000 | K |
| 49 | DEPTH BELOW SEA | 20.0000 | M |
| 50 | SEA/WATER TEMPE | 295.6000 | K |
| 51 | DEPTH BELOW SEA | 30.0000 | M |
| 52 | SEA/WATER TEMPE | 303.9000 | K |
| 53 | DEPTH BELOW SEA | 43.0000 | M |
| 54 | SEA/WATER TEMPE | 308.0000 | K |
| 55 | DEPTH BELOW SEA | 20.0000 | M |
| 56 | SEA/WATER TEMPE | 296.3000 | K |
| 57 | DEPTH BELOW SEA | 30.0000 | M |
| 58 | SEA/WATER TEMPE | 300.6000 | K |
| 59 | DEPTH BELOW SEA | 43.0000 | M |
| 60 | SEA/WATER TEMPE | 307.7000 | K |
| 61 | DEPTH BELOW SEA | 20.0000 | M |
| 62 | SEA/WATER TEMPE | 297.5000 | K |
| 63 | DEPTH BELOW SEA | 30.0000 | M |
| 64 | SEA/WATER TEMPE | 298.4000 | K |
| 65 | DEPTH BELOW SEA | 43.0000 | M |
| 66 | SEA/WATER TEMPE | 308.2000 | K |
| 67 | DEPTH BELOW SEA | 20.0000 | M |
| 68 | SEA/WATER TEMPE | 298.3000 | K |
| 69 | DEPTH BELOW SEA | 30.0000 | M |
| 70 | SEA/WATER TEMPE | 301.8000 | K |
| 71 | DEPTH BELOW SEA | 43.0000 | M |
| 72 | SEA/WATER TEMPE | 308.5000 | K |
| 73 | DEPTH BELOW SEA | 20.0000 | M |
| 74 | SEA/WATER TEMPE | 298.6000 | K |
| 75 | DEPTH BELOW SEA | 30.0000 | M |
| 76 | SEA/WATER TEMPE | 303.9000 | K |
| 77 | DEPTH BELOW SEA | 43.0000 | M |
| 78 | SEA/WATER TEMPE | 309.0000 | K |
| 79 | DEPTH BELOW SEA | 20.0000 | M |
| 80 | SEA/WATER TEMPE | 299.3000 | K |
| 81 | DEPTH BELOW SEA | 30.0000 | M |
| 82 | SEA/WATER TEMPE | 317.7000 | K |
| 83 | DEPTH BELOW SEA | 43.0000 | M |
| 84 | SEA/WATER TEMPE | 310.9000 | K |
| 85 | DEPTH BELOW SEA | 20.0000 | M |
| 86 | SEA/WATER TEMPE | 299.5000 | K |
| 87 | DEPTH BELOW SEA | 30.0000 | M |
| 88 | SEA/WATER TEMPE | 318.3000 | K |
| 89 | DEPTH BELOW SEA | 43.0000 | M |
| 90 | SEA/WATER TEMPE | 310.8000 | K |
| 91 | DEPTH BELOW SEA | 20.0000 | M |
| 92 | SEA/WATER TEMPE | 300.5000 | K |
| 93 | DEPTH BELOW SEA | 30.0000 | M |
| 94 | SEA/WATER TEMPE | 309.0000 | K |
| 95 | DEPTH BELOW SEA | 43.0000 | M |
| 96 | SEA/WATER TEMPE | 309.7000 | K |
| 97 | DEPTH BELOW SEA | 20.0000 | M |
| 98 | SEA/WATER TEMPE | 302.5000 | K |
| 99 | DEPTH BELOW SEA | 30.0000 | M |
| 100 | SEA/WATER TEMPE | 303.6000 | K |
| 101 | DEPTH BELOW SEA | 43.0000 | M |
| 102 | SEA/WATER TEMPE | 309.7000 | K |
| 103 | DEPTH BELOW SEA | 20.0000 | M |
| 104 | SEA/WATER TEMPE | 303.5000 | K |
| 105 | DEPTH BELOW SEA | 30.0000 | M |
| 106 | SEA/WATER TEMPE | 309.7000 | K |
| 107 | DEPTH BELOW SEA | 43.0000 | M |
| 108 | SEA/WATER TEMPE | 310.8000 | K |
| 109 | DURATION AND TI | 30.0000 | CODE TABLE 2031 |
| 110 | DIRECTION OF CU | MISSING | DEGREE TRUE |
| 111 | SPEED OF CURREN | MISSING | M/S |
| 112 | QUALITY INFORMA | .0000 | |
| 113 | DATA PRESENT IN | .0000 | NUMERIC |
| 114 | DATA PRESENT IN | .0000 | NUMERIC |
| 115 | DATA PRESENT IN | .0000 | NUMERIC |
| 116 | DATA PRESENT IN | .0000 | NUMERIC |
| 117 | DATA PRESENT IN | .0000 | NUMERIC |
| 118 | DATA PRESENT IN | .0000 | NUMERIC |
| 119 | DATA PRESENT IN | .0000 | NUMERIC |
| 120 | DATA PRESENT IN | .0000 | NUMERIC |
| 121 | DATA PRESENT IN | .0000 | NUMERIC |
| 122 | DATA PRESENT IN | .0000 | NUMERIC |
| 123 | DATA PRESENT IN | .0000 | NUMERIC |
| 124 | DATA PRESENT IN | .0000 | NUMERIC |

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|-----|-----------------|---------|------------|------|
| 218 | DATA PRESENT IN | .0000 | NUMERIC | |
| 219 | DATA PRESENT IN | .0000 | NUMERIC | |
| 220 | DATA PRESENT IN | .0000 | NUMERIC | |
| 221 | DATA PRESENT IN | .0000 | NUMERIC | |
| 222 | DATA PRESENT IN | .0000 | NUMERIC | |
| 223 | DATA PRESENT IN | .0000 | NUMERIC | |
| 224 | IDENTIFICATION | 98.0000 | CODE TABLE | 1031 |
| 225 | GENERATING APPL | 1.0000 | CODE TABLE | 1201 |
| 226 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 227 | % CONFIDENCE | 70.0000 | NUMERIC | |
| 228 | % CONFIDENCE | 70.0000 | NUMERIC | |
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| 309 | % CONFIDENCE | 70.0000 | NUMERIC | |
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336 % CONFIDENCE          70.0000 NUMERIC
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3.47 QSCAT data

RDB type 12, subtype 138

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|------|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 1762 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 0 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 12 |
| Bufr message subtype | 138 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 13 |
| Hour | 0 |
| Minute | 0 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|-------|
| RDB data type | 12 |
| RDB data subtype | 138 |
| Year | 2001 |
| Month | 2 |
| Day | 13 |
| Hour | 0 |
| Minute | 0 |
| Second | 0 |
| Latitude 1 | 48.56 |
| Longitude 1 | 71.45 |
| Latitude 2 | 50.79 |
| Longitude 2 | 71.45 |
| Number of observations | 0 |
| Identifier | 11777 |
| Total Bufr message length | 1762 |
| Day (RDB insertion) | 13 |
| Hour (RDB insertion) | 1 |
| Minute (RDB insertion) | 45 |
| Second (RDB insertion) | 40 |
| Day (MDB arrival) | 13 |
| Hour (MDB arrival) | 1 |
| Minute (MDB arrival) | 39 |
| Second (MDB arrival) | 14 |
| Correction number | 0 |
| Part of message | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 10 |
| Reserved | 0 |
| Number of data subsets | 46 |
| Flag (data type/data compression) | 192 |

Data descriptors (unexpanded)

1 312028

Data descriptors (expanded)

| | | |
|---|--------|--|
| 1 | 001007 | SATELLITE IDENTIFIER |
| 2 | 001012 | DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM |

3 002048 SATELLITE SENSOR INDICATOR
4 021119 WIND SCATTEROMETER GEOPHYSICAL MODEL FUNCTION
5 025060 SOFTWARE IDENTIFICATION
6 002026 CROSS TRACK RESOLUTION
7 002027 ALONG TRACK RESOLUTION
8 005040 ORBIT NUMBER
9 004001 YEAR
10 004002 MONTH
11 004003 DAY
12 004004 HOUR
13 004005 MINUTE
14 004006 SECOND
15 005002 LATITUDE (COARSE ACCURACY)
16 006002 LONGITUDE (COARSE ACCURACY)
17 008025 TIME DIFFERENCE QUALIFIER
18 004006 SECOND
19 005034 ALONG TRACK ROW NUMBER
20 006034 CROSS TRACK CELL NUMBER
21 021109 SEAWINDS WIND VECTOR CELL QUALITY FLAG
22 011081 MODEL WIND DIRECTION AT 10 M
23 011082 MODEL WIND SPEED AT 10 M
24 021101 NUMBER OF VECTOR AMBIGUITIES
25 021102 INDEX OF SELECTED WIND VECTOR
26 021103 TOTAL NUMBER OF SIGMA-0 MEASUREMENTS
27 021120 SEAWINDS PROBABILITY OF RAIN
28 021121 SEAWINDS NOF RAIN INDEX
29 013055 INTENSITY OF PRECIPITATION
30 021122 ATTENUATION CORRECTION ON SIGMA-0 (FROM Tb)
31 011012 WIND SPEED AT 10 M
32 011052 FORMAL UNCERTAINTY IN WIND SPEED
33 011011 WIND DIRECTION AT 10 M
34 011053 FORMAL UNCERTAINTY IN WIND DIRECTION
35 021104 LIKELIHOOD COMPUTED FOR WIND SOLUTION
36 011012 WIND SPEED AT 10 M
37 011052 FORMAL UNCERTAINTY IN WIND SPEED
38 011011 WIND DIRECTION AT 10 M
39 011053 FORMAL UNCERTAINTY IN WIND DIRECTION
40 021104 LIKELIHOOD COMPUTED FOR WIND SOLUTION
41 011012 WIND SPEED AT 10 M
42 011052 FORMAL UNCERTAINTY IN WIND SPEED
43 011011 WIND DIRECTION AT 10 M
44 011053 FORMAL UNCERTAINTY IN WIND DIRECTION
45 021104 LIKELIHOOD COMPUTED FOR WIND SOLUTION
46 011012 WIND SPEED AT 10 M
47 011052 FORMAL UNCERTAINTY IN WIND SPEED
48 011011 WIND DIRECTION AT 10 M
49 011053 FORMAL UNCERTAINTY IN WIND DIRECTION
50 021104 LIKELIHOOD COMPUTED FOR WIND SOLUTION
51 002104 ANTENNA POLARISATION
52 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
53 012063 BRIGHTNESS TEMPERATURE
54 012065 STANDARD DEVIATION BRIGHTNESS TEMPERATURE
55 002104 ANTENNA POLARISATION
56 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
57 012063 BRIGHTNESS TEMPERATURE
58 012065 STANDARD DEVIATION BRIGHTNESS TEMPERATURE
59 021110 NUMBER OF INNER-BEAM SIGMA-0 (FORWARD OF SATELLITE)
60 005002 LATITUDE (COARSE ACCURACY)
61 006002 LONGITUDE (COARSE ACCURACY)
62 021118 ATTENUATION CORRECTION ON SIGMA-0
63 002112 RADAR LOOK ANGLE
64 002111 RADAR INCIDENCE ANGLE
65 002104 ANTENNA POLARISATION
66 021123 SEAWINDS NORMALIZED RADAR CROSS SECTION
67 021106 Kp VARIANCE COEFFICIENT (ALPHA)
68 021107 Kp VARIANCE COEFFICIENT (BETA)
69 021114 Kp VARIANCE COEFFICIENT (GAMMA)
70 021115 SEAWINDS SIGMA-0 QUALITY FLAG
71 021116 SEAWINDS SIGMA-0 MODE FLAG
72 008018 SEAWINDS LAND/ICE SURFACE FLAG
73 021117 SIGMA-0 VARIANCE QUALITY CONTROL
74 021111 NUMBER OF OUTER-BEAM SIGMA-0 (FORWARD OF SATELLITE)
75 005002 LATITUDE (COARSE ACCURACY)
76 006002 LONGITUDE (COARSE ACCURACY)
77 021118 ATTENUATION CORRECTION ON SIGMA-0
78 002112 RADAR LOOK ANGLE
79 002111 RADAR INCIDENCE ANGLE
80 002104 ANTENNA POLARISATION
81 021123 SEAWINDS NORMALIZED RADAR CROSS SECTION
82 021106 Kp VARIANCE COEFFICIENT (ALPHA)
83 021107 Kp VARIANCE COEFFICIENT (BETA)
84 021114 Kp VARIANCE COEFFICIENT (GAMMA)
85 021115 SEAWINDS SIGMA-0 QUALITY FLAG
86 021116 SEAWINDS SIGMA-0 MODE FLAG
87 008018 SEAWINDS LAND/ICE SURFACE FLAG
88 021117 SIGMA-0 VARIANCE QUALITY CONTROL
89 021112 NUMBER OF INNER-BEAM SIGMA-0 (AFT OF SATELLITE)
90 005002 LATITUDE (COARSE ACCURACY)
91 006002 LONGITUDE (COARSE ACCURACY)
92 021118 ATTENUATION CORRECTION ON SIGMA-0
93 002112 RADAR LOOK ANGLE
94 002111 RADAR INCIDENCE ANGLE
95 002104 ANTENNA POLARISATION

```

96 021123 SEAWINDS NORMALIZED RADAR CROSS SECTION
97 021106 Kp VARIANCE COEFFICIENT (ALPHA)
98 021107 Kp VARIANCE COEFFICIENT (BETA)
99 021114 Kp VARIANCE COEFFICIENT (GAMMA)
100 021115 SEAWINDS SIGMA-0 QUALITY FLAG
101 021116 SEAWINDS SIGMA-0 MODE FLAG
102 008018 SEAWINDS LAND/ICE SURFACE FLAG
103 021117 SIGMA-0 VARIANCE QUALITY CONTROL
104 021113 NUMBER OF OUTER-BEAM SIGMA-0 (AFT OF SATELLITE)
105 005002 LATITUDE (COARSE ACCURACY)
106 006002 LONGITUDE (COARSE ACCURACY)
107 021118 ATTENUATION CORRECTION ON SIGMA-0
108 002112 RADAR LOOK ANGLE
109 002111 RADAR INCIDENCE ANGLE
110 002104 ANTENNA POLARISATION
111 021123 SEAWINDS NORMALIZED RADAR CROSS SECTION
112 021106 Kp VARIANCE COEFFICIENT (ALPHA)
113 021107 Kp VARIANCE COEFFICIENT (BETA)
114 021114 Kp VARIANCE COEFFICIENT (GAMMA)
115 021115 SEAWINDS SIGMA-0 QUALITY FLAG
116 021116 SEAWINDS SIGMA-0 MODE FLAG
117 008018 SEAWINDS LAND/ICE SURFACE FLAG
118 021117 SIGMA-0 VARIANCE QUALITY CONTROL

```

BUFR SECTION 4 (DATA), SUBSET 1

```

1 SATELLITE IDENT          281.0000 CODE TABLE  1007
2 DIRECTION OF MO        347.0000 DEGREE TRUE
3 SATELLITE SENSO         8.0000 CODE TABLE  2048
4 WIND SCATTEROME        7.0000 CODE TABLE  21119
5 SOFTWARE INDENT        232.0000 NUMERIC
6 CROSS TRACK RES        25000.0000 M
7 ALONG TRACK RES        25000.0000 M
8 ORBIT NUMBER           8613.0000 NUMERIC
9 YEAR                   2001.0000 YEAR
10 MONTH                  2.0000 MONTH
11 DAY                    13.0000 DAY
12 HOUR                   .0000 HOUR
13 MINUTE                 .0000 MINUTE
14 SECOND                 .0000 SECOND
15 LATITUDE (COARS       48.5600 DEGREE
16 LONGITUDE (COAR      71.4500 DEGREE
17 TIME DIFFERENCE       5.0000 CODE TABLE  8025
18 SECOND                29.0000 SECOND
19 ALONG TRACK ROW       634.0000 NUMERIC
20 CROSS TRACK CEL       18.0000 NUMERIC
21 SEAWINDS WIND V       49472.0000 FLAG TABLE  21109
22 MODEL WIND DIRE       MISSING DEGREE TRUE
23 MODEL WIND SPEE       MISSING M/S
24 NUMBER OF VECTO       .0000 NUMERIC
25 INDEX OF SELECT       MISSING NUMERIC
26 TOTAL NUMBER OF       1.0000 NUMERIC
27 SEAWINDS PROBAB       .0000 NUMERIC
28 SEAWINDS NOF RA       .0000 NUMERIC
29 INTENSITY OF PR       MISSING KG/M**2S
30 ATTENUATION COR       MISSING dB
31 WIND SPEED AT 1       MISSING M/S
32 FORMAL UNCERTA       MISSING M/S
33 WIND DIRECTION        MISSING DEGREE TRUE
34 FORMAL UNCERTA       MISSING DEGREE TRUE
35 LIKELIHOOD COMP       MISSING NUMERIC
36 WIND SPEED AT 1       MISSING M/S
37 FORMAL UNCERTA       MISSING M/S
38 WIND DIRECTION        MISSING DEGREE TRUE
39 FORMAL UNCERTA       MISSING DEGREE TRUE
40 LIKELIHOOD COMP       MISSING NUMERIC
41 WIND SPEED AT 1       MISSING M/S
42 FORMAL UNCERTA       MISSING M/S
43 WIND DIRECTION        MISSING DEGREE TRUE
44 FORMAL UNCERTA       MISSING DEGREE TRUE
45 LIKELIHOOD COMP       MISSING NUMERIC
46 WIND SPEED AT 1       MISSING M/S
47 FORMAL UNCERTA       MISSING M/S
48 WIND DIRECTION        MISSING DEGREE TRUE
49 FORMAL UNCERTA       MISSING DEGREE TRUE
50 LIKELIHOOD COMP       MISSING NUMERIC
51 ANTENNA POLARIS       MISSING CODE TABLE  2104
52 TOTAL NUMBER (WI       MISSING NUMERIC
53 BRIGHTNESS TEMP       MISSING K
54 STANDARD DEVIAT       MISSING K
55 ANTENNA POLARIS       1.0000 CODE TABLE  2104
56 TOTAL NUMBER (WI       2.0000 NUMERIC
57 BRIGHTNESS TEMP       227.5000 K
58 STANDARD DEVIAT       137.5000 K
59 NUMBER OF INNER       .0000 NUMERIC
60 LATITUDE (COARS       MISSING DEGREE
61 LONGITUDE (COAR      MISSING DEGREE
62 ATTENUATION COR       MISSING dB
63 RADAR LOOK ANGL       MISSING DEGREE
64 RADAR INCIDENCE       MISSING DEGREE
65 ANTENNA POLARIS       MISSING CODE TABLE  2104
66 SEAWINDS NORMAL       MISSING dB
67 Kp VARIANCE COE       MISSING NUMERIC

```

| | | |
|---------------------|-----------------------|-------|
| 68 Kp VARIANCE COE | MISSING NUMERIC | |
| 69 Kp VARIANCE COE | MISSING dB | |
| 70 SEAWINDS SIGMA- | MISSING FLAG TABLE | 21115 |
| 71 SEAWINDS SIGMA- | MISSING FLAG TABLE | 21116 |
| 72 SEAWINDS LAND/I | MISSING FLAG TABLE | 8018 |
| 73 SIGMA-0 VARIANC | MISSING NUMERIC | |
| 74 NUMBER OF OUTER | 1.0000 NUMERIC | |
| 75 LATITUDE (COARS | 48.5600 DEGREE | |
| 76 LONGITUDE (COAR | 71.4500 DEGREE | |
| 77 ATTENUATION COR | .1400 dB | |
| 78 RADAR LOOK ANGL | 304.6900 DEGREE | |
| 79 RADAR INCIDENCE | 54.2400 DEGREE | |
| 80 ANTENNA POLARIS | 1.0000 CODE TABLE | 2104 |
| 81 SEAWINDS NORMAL | -13.6100 dB | |
| 82 Kp VARIANCE COE | 1.0130 NUMERIC | |
| 83 Kp VARIANCE COE | .0000 NUMERIC | |
| 84 Kp VARIANCE COE | -80.2220 dB | |
| 85 SEAWINDS SIGMA- | .0000 FLAG TABLE | 21115 |
| 86 SEAWINDS SIGMA- | 8960.0000 FLAG TABLE | 21116 |
| 87 SEAWINDS LAND/I | 32768.0000 FLAG TABLE | 8018 |
| 88 SIGMA-0 VARIANC | MISSING NUMERIC | |
| 89 NUMBER OF INNER | .0000 NUMERIC | |
| 90 LATITUDE (COARS | MISSING DEGREE | |
| 91 LONGITUDE (COAR | MISSING DEGREE | |
| 92 ATTENUATION COR | MISSING dB | |
| 93 RADAR LOOK ANGL | MISSING DEGREE | |
| 94 RADAR INCIDENCE | MISSING DEGREE | |
| 95 ANTENNA POLARIS | MISSING CODE TABLE | 2104 |
| 96 SEAWINDS NORMAL | MISSING dB | |
| 97 Kp VARIANCE COE | MISSING NUMERIC | |
| 98 Kp VARIANCE COE | MISSING NUMERIC | |
| 99 Kp VARIANCE COE | MISSING dB | |
| 100 SEAWINDS SIGMA- | MISSING FLAG TABLE | 21115 |
| 101 SEAWINDS SIGMA- | MISSING FLAG TABLE | 21116 |
| 102 SEAWINDS LAND/I | MISSING FLAG TABLE | 8018 |
| 103 SIGMA-0 VARIANC | MISSING NUMERIC | |
| 104 NUMBER OF OUTER | .0000 NUMERIC | |
| 105 LATITUDE (COARS | MISSING DEGREE | |
| 106 LONGITUDE (COAR | MISSING DEGREE | |
| 107 ATTENUATION COR | MISSING dB | |
| 108 RADAR LOOK ANGL | MISSING DEGREE | |
| 109 RADAR INCIDENCE | MISSING DEGREE | |
| 110 ANTENNA POLARIS | MISSING CODE TABLE | 2104 |
| 111 SEAWINDS NORMAL | MISSING dB | |
| 112 Kp VARIANCE COE | MISSING NUMERIC | |
| 113 Kp VARIANCE COE | MISSING NUMERIC | |
| 114 Kp VARIANCE COE | MISSING dB | |
| 115 SEAWINDS SIGMA- | MISSING FLAG TABLE | 21115 |
| 116 SEAWINDS SIGMA- | MISSING FLAG TABLE | 21116 |
| 117 SEAWINDS LAND/I | MISSING FLAG TABLE | 8018 |
| 118 SIGMA-0 VARIANC | MISSING NUMERIC | |



3.48 Metar data

RDB type 1, subtype 140

B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|-----|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 168 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 0 |
| Bufr message subtype | 140 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 12 |
| Hour | 0 |
| Minute | 0 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|-------|
| RDB data type | 1 |
| RDB data subtype | 140 |
| Year | 2001 |
| Month | 2 |
| Day | 12 |
| Hour | 0 |
| Minute | 0 |
| Second | 0 |
| Latitude 1 | 24.90 |
| Longitude 1 | 67.12 |
| Identifier | OPKC |
| Total Bufr message length | 168 |
| Day (RDB insertion) | 12 |
| Hour (RDB insertion) | 0 |
| Minute (RDB insertion) | 13 |
| Second (RDB insertion) | 38 |
| Day (MDB arrival) | 12 |
| Hour (MDB arrival) | 0 |
| Minute (MDB arrival) | 10 |
| Second (MDB arrival) | 53 |
| Correction number | 0 |
| Part of message | 1 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

1

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 24 |
| Reserved | 0 |
| Number of data subsets | 1 |
| Flag (data type/data compression) | 128 |

Data descriptors (unexpanded)

| | |
|---|--------|
| 1 | 307011 |
| 2 | 222000 |
| 3 | 101021 |
| 4 | 031031 |
| 5 | 001031 |
| 6 | 001032 |
| 7 | 101021 |
| 8 | 033007 |

Data descriptors (expanded)

1 001063 ICAO LOCATION INDICATOR
 2 002001 TYPE OF STATION
 3 004001 YEAR
 4 004002 MONTH
 5 004003 DAY
 6 004004 HOUR
 7 004005 MINUTE
 8 005002 LATITUDE (COARSE ACCURACY)
 9 006002 LONGITUDE (COARSE ACCURACY)
 10 007001 HEIGHT OF STATION
 11 007006 HEIGHT ABOVE STATION
 12 011001 WIND DIRECTION
 13 011016 EXTREME COUNTERCLOCKWISE WIND DIRECTION OF A VARIABLE WIND
 14 011017 EXTREME CLOCKWISE WIND DIRECTION OF A VARIABLE WIND
 15 011002 WIND SPEED
 16 011041 MAXIMUM WIND SPEED (GUSTS)
 17 007006 HEIGHT ABOVE STATION
 18 012001 TEMPERATURE/DRY BULB TEMPERATURE
 19 012003 DEW POINT TEMPERATURE
 20 010052 ALTIMETER SETTING (QNH)
 21 020009 GENERAL WEATHER INDICATOR
 22 222000 QUALITY INFORMATION FOLLOW
 23 031031 DATA PRESENT INDICATOR
 24 031031 DATA PRESENT INDICATOR
 25 031031 DATA PRESENT INDICATOR
 26 031031 DATA PRESENT INDICATOR
 27 031031 DATA PRESENT INDICATOR
 28 031031 DATA PRESENT INDICATOR
 29 031031 DATA PRESENT INDICATOR
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 33 031031 DATA PRESENT INDICATOR
 34 031031 DATA PRESENT INDICATOR
 35 031031 DATA PRESENT INDICATOR
 36 031031 DATA PRESENT INDICATOR
 37 031031 DATA PRESENT INDICATOR
 38 031031 DATA PRESENT INDICATOR
 39 031031 DATA PRESENT INDICATOR
 40 031031 DATA PRESENT INDICATOR
 41 031031 DATA PRESENT INDICATOR
 42 031031 DATA PRESENT INDICATOR
 43 031031 DATA PRESENT INDICATOR
 44 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
 45 001032 GENERATING APPLICATION
 46 033007 % CONFIDENCE
 47 033007 % CONFIDENCE
 48 033007 % CONFIDENCE
 49 033007 % CONFIDENCE
 50 033007 % CONFIDENCE
 51 033007 % CONFIDENCE
 52 033007 % CONFIDENCE
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 63 033007 % CONFIDENCE
 64 033007 % CONFIDENCE
 65 033007 % CONFIDENCE
 66 033007 % CONFIDENCE

BUFR SECTION 4 (DATA), SUBSET 1

| | | | | | |
|----|-----------------|-------------|-------------|-------|------|
| 1 | ICAO LOCATION I | 1008.0000 | CCITTIA5 | | OPKC |
| 2 | TYPE OF STATION | 1.0000 | CODE TABLE | 2001 | |
| 3 | YEAR | 2001.0000 | YEAR | | |
| 4 | MONTH | 2.0000 | MONTH | | |
| 5 | DAY | 12.0000 | DAY | | |
| 6 | HOUR | .0000 | HOUR | | |
| 7 | MINUTE | .0000 | MINUTE | | |
| 8 | LATITUDE (COARS | 24.9000 | DEGREE | | |
| 9 | LONGITUDE (COAR | 67.1200 | DEGREE | | |
| 10 | HEIGHT OF STATI | 21.0000 | M | | |
| 11 | HEIGHT ABOVE ST | 10.0000 | M | | |
| 12 | WIND DIRECTION | .0000 | DEGREE TRUE | | |
| 13 | EXTREME COUNTER | MISSING | DEGREE TRUE | | |
| 14 | EXTREME CLOCKWI | MISSING | DEGREE TRUE | | |
| 15 | WIND SPEED | .0000 | M/S | | |
| 16 | MAXIMUM WIND SP | MISSING | M/S | | |
| 17 | HEIGHT ABOVE ST | 2.0000 | M | | |
| 18 | TEMPERATURE/DRY | 289.2000 | K | | |
| 19 | DEW POINT TEMPE | 280.2000 | K | | |
| 20 | ALTIMETER SETTI | 101100.0000 | PA | | |
| 21 | GENERAL WEATHER | MISSING | CODE TABLE | 20009 | |
| 22 | QUALITY INFORMA | .0000 | | | |
| 23 | DATA PRESENT IN | .0000 | NUMERIC | | |

```
24 DATA PRESENT IN          .0000 NUMERIC
25 DATA PRESENT IN          .0000 NUMERIC
26 DATA PRESENT IN          .0000 NUMERIC
27 DATA PRESENT IN          .0000 NUMERIC
28 DATA PRESENT IN          .0000 NUMERIC
29 DATA PRESENT IN          .0000 NUMERIC
30 DATA PRESENT IN          .0000 NUMERIC
31 DATA PRESENT IN          .0000 NUMERIC
32 DATA PRESENT IN          .0000 NUMERIC
33 DATA PRESENT IN          .0000 NUMERIC
34 DATA PRESENT IN          .0000 NUMERIC
35 DATA PRESENT IN          .0000 NUMERIC
36 DATA PRESENT IN          .0000 NUMERIC
37 DATA PRESENT IN          .0000 NUMERIC
38 DATA PRESENT IN          .0000 NUMERIC
39 DATA PRESENT IN          .0000 NUMERIC
40 DATA PRESENT IN          .0000 NUMERIC
41 DATA PRESENT IN          .0000 NUMERIC
42 DATA PRESENT IN          .0000 NUMERIC
43 DATA PRESENT IN          .0000 NUMERIC
44 IDENTIFICATION            98.0000 CODE TABLE 1031
45 GENERATING APPL           1.0000 CODE TABLE 1032
46 % CONFIDENCE              70.0000 NUMERIC
47 % CONFIDENCE              70.0000 NUMERIC
48 % CONFIDENCE              70.0000 NUMERIC
49 % CONFIDENCE              70.0000 NUMERIC
50 % CONFIDENCE              70.0000 NUMERIC
51 % CONFIDENCE              70.0000 NUMERIC
52 % CONFIDENCE              70.0000 NUMERIC
53 % CONFIDENCE              70.0000 NUMERIC
54 % CONFIDENCE              70.0000 NUMERIC
55 % CONFIDENCE              70.0000 NUMERIC
56 % CONFIDENCE              70.0000 NUMERIC
57 % CONFIDENCE              75.0000 NUMERIC
58 % CONFIDENCE              70.0000 NUMERIC
59 % CONFIDENCE              70.0000 NUMERIC
60 % CONFIDENCE              74.0000 NUMERIC
61 % CONFIDENCE              70.0000 NUMERIC
62 % CONFIDENCE              70.0000 NUMERIC
63 % CONFIDENCE              77.0000 NUMERIC
64 % CONFIDENCE              77.0000 NUMERIC
65 % CONFIDENCE              70.0000 NUMERIC
66 % CONFIDENCE              70.0000 NUMERIC
```

3.49 Surface ozone

RDB type 9, subtype 157

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|-----|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 140 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 8 |
| Bufr message subtype | 157 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 13 |
| Hour | 11 |
| Minute | 40 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|-------|
| RDB data type | 9 |
| RDB data subtype | 157 |
| Year | 2001 |
| Month | 2 |
| Day | 13 |
| Hour | 11 |
| Minute | 40 |
| Second | 0 |
| Latitude 1 | 50.18 |
| Longitude 1 | 15.83 |
| Identifier | 11649 |
| Total Bufr message length | 140 |
| Day (RDB insertion) | 13 |
| Hour (RDB insertion) | 11 |
| Minute (RDB insertion) | 52 |
| Second (RDB insertion) | 47 |
| Day (MDB arrival) | 13 |
| Hour (MDB arrival) | 11 |
| Minute (MDB arrival) | 51 |
| Second (MDB arrival) | 29 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 10 |
| Reserved | 0 |
| Number of data subsets | 1 |
| Flag (data type/data compression) | 128 |

Data descriptors (unexpanded)

1 307041

Data descriptors (expanded)

| | | |
|---|--------|--------------------------|
| 1 | 001001 | WMO BLOCK NUMBER |
| 2 | 001002 | WMO STATION NUMBER |
| 3 | 001015 | STATION OR SITE NAME |
| 4 | 005001 | LATITUDE (HIGH ACCURACY) |



```

5 006001 LONGITUDE (HIGH ACCURACY)
6 007001 HEIGHT OF STATION
7 004001 YEAR
8 004002 MONTH
9 004003 DAY
10 004004 HOUR
11 004005 MINUTE
12 002143 OZONE INSTRUMENT TYPE
13 002142 OZONE INSTRUMENT SERIAL NUMBER/IDENTIFICATION
14 002144 LIGHT SOURCE TYPE FOR BREWER SPECTROPHOTOMETER
15 015001 OZON
16 015002 AIR MASS (SLANT PATH AT 22 KM)

```

BUFR SECTION 4 (DATA), SUBSET 1

```

1 WMO BLOCK NUMBE          11.0000 NUMERIC
2 WMO STATION NUM          649.0000 NUMERIC
3 STATION OR SITE          1020.0000 CCITTIA5      HRADEC KRALOVE
4 LATITUDE (HIGH          50.1800 DEGREE
5 LONGITUDE (HIGH         15.8300 DEGREE
6 HEIGHT OF STATI         285.0000 M
7 YEAR                     2001.0000 YEAR
8 MONTH                    2.0000 MONTH
9 DAY                      13.0000 DAY
10 HOUR                    11.0000 HOUR
11 MINUTE                  40.0000 MINUTE
12 OZON INSTRUMENT         1.0000 CODE TABLE  2143
13 OZON INSTRUMEN         2004.0000 CCITTIA5      98
14 LIGHT SOURCE TY         6.0000 CODE TABLE  2144
15 OZON                    281.0000 DOBSON
16 AIR MASS (SLANT         2.2300 NUMERIC

```

3.50 Total column ozone

RDB type 9, subtype 158

BUFR Tables to be loaded B0000980601,D0000980601

```
1
  BUFR SECTION 0
  Length of section 0 (bytes)      8
  Total length of Bufr message (bytes) 146
  Bufr Edition number             3
```

```
1
  BUFR SECTION 1
  Length of section 1 (bytes)      18
  Bufr Edition number             3
  Originating sub-centre          0
  Originating centre              98
  Update sequence number          1
  Flag (presence of section 2)    128
  Bufr message type               8
  Bufr message subtype            158
  Version number of local table    1
  Year                             1
  Month                             2
  Day                               13
  Hour                              8
  Minute                           29
  Version number of Master table    6
  Bufr Master table                0
```

```
1
  BUFR SECTION 2
  Length of section 2              52
  Report Data Base Key
  RDB data type                    9
  RDB data subtype                 158
  Year                             2001
  Month                             2
  Day                               13
  Hour                              8
  Minute                           29
  Second                            0
  Latitude 1                       50.18
  Longitude 1                      15.83
  Identifier                       11649
  Total Bufr message length        146
  Day (RDB insertion)              13
  Hour (RDB insertion)             14
  Minute (RDB insertion)           18
  Second (RDB insertion)           44
  Day (MDB arrival)                13
  Hour (MDB arrival)               14
  Minute (MDB arrival)             18
  Second (MDB arrival)             19
  Correction number                0
  Part of message                  0
  Correction number                0
  Part of message                  0
  Correction number                0
  Part of message                  0
  Correction number                0
  Part of message                  0
  Quality control % conf           70
```

```
1
  BUFR SECTION 3
  Length of section 3 (bytes)      10
  Reserved                          0
  Number of data subsets           1
  Flag (data type/data compression) 128
```

Data descriptors (unexpanded)

```
1 307042
```

Data descriptors (expanded)

```
1 001001 WMO BLOCK NUMBER
2 001002 WMO STATION NUMBER
3 001015 STATION OR SITE NAME
4 005001 LATITUDE (HIGH ACCURACY)
5 006001 LONGITUDE (HIGH ACCURACY)
```



```

6 007001 HEIGHT OF STATION
7 004001 YEAR
8 004002 MONTH
9 004003 DAY
10 004004 HOUR
11 004005 MINUTE
12 008021 TIME SIGNIFICANCE
13 004025 TIME PERIOD OR DISPLACEMENT
14 002143 OZON INSTRUMENT TYPE
15 002142 OZONE INSTRUMENT SERIAL NUMBER/IDENTIFICATION
16 002144 LIGHT SOURCE TYPE FOR BREWER SPECTROPHOTOMETER
17 008022 TOTAL NUMBER (WITH RESPECT TO ACCUMULATION OR AVERAGE)
18 008023 FIRST ORDER STATISTICS
19 015001 OZON
20 008023 FIRST ORDER STATISTICS
21 015001 OZON
22 008023 FIRST ORDER STATISTICS
23 015002 AIR MASS (SLANT PATH AT 22 KM)

```

BUFR SECTION 4 (DATA), SUBSET 1

```

1 WMO BLOCK NUMBE          11.0000 NUMERIC
2 WMO STATION NUM         649.0000 NUMERIC
3 STATION OR SITE         1020.0000 CCITTIA5           Hradec Kralove
4 LATITUDE (HIGH)         50.1800 DEGREE
5 LONGITUDE (HIGH)        15.8300 DEGREE
6 HEIGHT OF STATI         285.0000 M
7 YEAR                     2001.0000 YEAR
8 MONTH                    2.0000 MONTH
9 DAY                      13.0000 DAY
10 HOUR                    8.0000 HOUR
11 MINUTE                  29.0000 MINUTE
12 TIME SIGNIFICAN         8.0000 CODE TABLE 8021
13 TIME PERIOD OR          304.0000 MINUTE
14 OZON INSTRUMENT         1.0000 CODE TABLE 2143
15 OZONE INSTRUMEN        2004.0000 CCITTIA5           98
16 LIGHT SOURCE TY         6.0000 CODE TABLE 2144
17 TOTAL NUMBER (WI        12.0000 NUMERIC
18 FIRST ORDER STA         4.0000 CODE TABLE 8023
19 OZON                    279.0000 DOBSON
20 FIRST ORDER STA         9.0000 CODE TABLE 8023
21 OZON                    9.0000 DOBSON
22 FIRST ORDER STA        11.0000 CODE TABLE 8023
23 AIR MASS (SLANT         2.4800 NUMERIC

```

3.51 Ozone profile

RDB type 9, subtype 162

BUFR Tables to be loaded B0000980601,D0000980601

BUFR SECTION 0

| | |
|--------------------------------------|------|
| Length of section 0 (bytes) | 8 |
| Total length of Bufr message (bytes) | 5704 |
| Bufr Edition number | 3 |

BUFR SECTION 1

| | |
|--------------------------------|-----|
| Length of section 1 (bytes) | 18 |
| Bufr Edition number | 3 |
| Originating sub-centre | 0 |
| Originating centre | 98 |
| Update sequence number | 1 |
| Flag (presence of section 2) | 128 |
| Bufr message type | 8 |
| Bufr message subtype | 162 |
| Version number of local table | 1 |
| Year | 1 |
| Month | 2 |
| Day | 13 |
| Hour | 11 |
| Minute | 18 |
| Version number of Master table | 6 |
| Bufr Master table | 0 |

BUFR SECTION 2

| | |
|---------------------|----|
| Length of section 2 | 52 |
|---------------------|----|

Report Data Base Key

| | |
|---------------------------|-------|
| RDB data type | 9 |
| RDB data subtype | 162 |
| Year | 2001 |
| Month | 2 |
| Day | 13 |
| Hour | 11 |
| Minute | 18 |
| Second | 0 |
| Latitude 1 | 52.10 |
| Longitude 1 | 5.18 |
| Identifier | 06260 |
| Total Bufr message length | 5704 |
| Day (RDB insertion) | 13 |
| Hour (RDB insertion) | 14 |
| Minute (RDB insertion) | 13 |
| Second (RDB insertion) | 42 |
| Day (MDB arrival) | 13 |
| Hour (MDB arrival) | 14 |
| Minute (MDB arrival) | 12 |
| Second (MDB arrival) | 43 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Correction number | 0 |
| Part of message | 0 |
| Quality control % conf | 70 |

BUFR SECTION 3

| | |
|-----------------------------------|-----|
| Length of section 3 (bytes) | 52 |
| Reserved | 0 |
| Number of data subsets | 1 |
| Flag (data type/data compression) | 128 |

Data descriptors (unexpanded)

| | |
|----|--------|
| 1 | 301001 |
| 2 | 001015 |
| 3 | 301024 |
| 4 | 008021 |
| 5 | 301011 |
| 6 | 301012 |
| 7 | 002143 |
| 8 | 002142 |
| 9 | 015001 |
| 10 | 002011 |
| 11 | 002143 |



12 015004
 13 015005
 14 107000
 15 031002
 16 007004
 17 012073
 18 013003
 19 011001
 20 011002
 21 015003
 22 004016

Data descriptors (expanded)

1 001001 WMO BLOCK NUMBER
 2 001002 WMO STATION NUMBER
 3 001015 STATION OR SITE NAME
 4 005002 LATITUDE (COARSE ACCURACY)
 5 006002 LONGITUDE (COARSE ACCURACY)
 6 007001 HEIGHT OF STATION
 7 008021 TIME SIGNIFICANCE
 8 004001 YEAR
 9 004002 MONTH
 10 004003 DAY
 11 004004 HOUR
 12 004005 MINUTE
 13 002143 OZONE INSTRUMENT TYPE
 14 002142 OZONE INSTRUMENT SERIAL NUMBER/IDENTIFICATION
 15 015001 OZONE
 16 002011 RADIOSONDE TYPE
 17 002143 OZONE INSTRUMENT TYPE
 18 015004 OZONE SOUNDING CORRECTION FACTOR (CF)
 19 015005 OZONE p
 20 031002 EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR
 21 007004 PRESSURE
 22 012073 TEMPERATURE
 23 013003 RELATIVE HUMIDITY
 24 011001 WIND DIRECTION
 25 011002 WIND SPEED
 26 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 27 004016 TIME INCREMENT
 28 007004 PRESSURE
 29 012073 TEMPERATURE
 30 013003 RELATIVE HUMIDITY
 31 011001 WIND DIRECTION
 32 011002 WIND SPEED
 33 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 34 004016 TIME INCREMENT
 35 007004 PRESSURE
 36 012073 TEMPERATURE
 37 013003 RELATIVE HUMIDITY
 38 011001 WIND DIRECTION
 39 011002 WIND SPEED
 40 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 41 004016 TIME INCREMENT
 42 007004 PRESSURE
 43 012073 TEMPERATURE
 44 013003 RELATIVE HUMIDITY
 45 011001 WIND DIRECTION
 46 011002 WIND SPEED
 47 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 48 004016 TIME INCREMENT
 49 007004 PRESSURE
 50 012073 TEMPERATURE
 51 013003 RELATIVE HUMIDITY
 52 011001 WIND DIRECTION
 53 011002 WIND SPEED
 54 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 55 004016 TIME INCREMENT
 56 007004 PRESSURE
 57 012073 TEMPERATURE
 58 013003 RELATIVE HUMIDITY
 59 011001 WIND DIRECTION
 60 011002 WIND SPEED
 61 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 62 004016 TIME INCREMENT
 63 007004 PRESSURE
 64 012073 TEMPERATURE
 65 013003 RELATIVE HUMIDITY
 66 011001 WIND DIRECTION
 67 011002 WIND SPEED
 68 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 69 004016 TIME INCREMENT
 70 007004 PRESSURE
 71 012073 TEMPERATURE
 72 013003 RELATIVE HUMIDITY
 73 011001 WIND DIRECTION
 74 011002 WIND SPEED
 75 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
 76 004016 TIME INCREMENT
 77 007004 PRESSURE
 78 012073 TEMPERATURE

```

79 013003 RELATIVE HUMIDITY
80 011001 WIND DIRECTION
81 011002 WIND SPEED
82 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
83 004016 TIME INCREMENT
84 007004 PRESSURE
85 012073 TEMPERATURE
86 013003 RELATIVE HUMIDITY
87 011001 WIND DIRECTION
88 011002 WIND SPEED
89 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
90 004016 TIME INCREMENT
91 007004 PRESSURE
92 012073 TEMPERATURE
93 013003 RELATIVE HUMIDITY
94 011001 WIND DIRECTION
95 011002 WIND SPEED
96 015003 MEASURED OZONE PARTIAL PRESSURE (SOUNDING)
97 004016 TIME INCREMENT
98 007004 PRESSURE
99 012073 TEMPERATURE
100 013003 RELATIVE HUMIDITY
    
```

BUFR SECTION 4 (DATA), SUBSET 1

```

1 WMO BLOCK NUMBE          6.0000 NUMERIC
2 WMO STATION NUM         260.0000 NUMERIC
3 STATION OR SITE        1020.0000 CCITTIA5          Debltt
4 LATITUDE (COARS        52.1000 DEGREE
5 LONGITUDE (COAR        5.1800 DEGREE
6 HEIGHT OF STATI        4.0000 M
7 TIME SIGNIFICAN        18.0000 CODE TABLE  8021
8 YEAR                    2001.0000 YEAR
9 MONTH                   2.0000 MONTH
10 DAY                    13.0000 DAY
11 HOUR                   11.0000 HOUR
12 MINUTE                 18.0000 MINUTE
13 OZON INSTRUMENT        MISSING CODE TABLE  2143
14 OZON INSTRUMEN        2004.0000 CCITTIA5          ///
15 OZON                   234.0000 DOBSON
16 RADIOSONDE TYPE        61.0000 CODE TABLE  2011
17 OZON INSTRUMENT        19.0000 CODE TABLE  2143
18 OZON SOUNDING          MISSING NUMERIC
19 OZON p                 MISSING DOBSON
20 EXTENDED DELAYE        559.0000 NUMERIC
21 PRESSURE               103500.0000 PA
22 TEMPERATURE           281.3000 K
23 RELATIVE HUMIDI        74.0000 %
24 WIND DIRECTION         10.0000 DEGREE TRUE
25 WIND SPEED             6.0000 M/S
26 MEASURED OZONE         .0025 PA
27 TIME INCREMENT         .0000 SECOND
28 PRESSURE               102700.0000 PA
29 TEMPERATURE           280.3000 K
30 RELATIVE HUMIDI        69.0000 %
31 WIND DIRECTION         13.0000 DEGREE TRUE
32 WIND SPEED             6.0000 M/S
33 MEASURED OZONE         .0026 PA
34 TIME INCREMENT         10.0000 SECOND
35 PRESSURE               102000.0000 PA
36 TEMPERATURE           279.7000 K
37 RELATIVE HUMIDI        71.0000 %
38 WIND DIRECTION         15.0000 DEGREE TRUE
39 WIND SPEED             5.9000 M/S
40 MEASURED OZONE         .0027 PA
41 TIME INCREMENT         20.0000 SECOND
42 PRESSURE               101300.0000 PA
43 TEMPERATURE           279.0000 K
44 RELATIVE HUMIDI        71.0000 %
45 WIND DIRECTION         16.0000 DEGREE TRUE
46 WIND SPEED             5.8000 M/S
47 MEASURED OZONE         .0028 PA
48 TIME INCREMENT         30.0000 SECOND
49 PRESSURE               100800.0000 PA
50 TEMPERATURE           278.6000 K
51 RELATIVE HUMIDI        73.0000 %
52 WIND DIRECTION         17.0000 DEGREE TRUE
53 WIND SPEED             5.7000 M/S
54 MEASURED OZONE         .0029 PA
55 TIME INCREMENT         40.0000 SECOND
56 PRESSURE               100200.0000 PA
57 TEMPERATURE           278.2000 K
58 RELATIVE HUMIDI        75.0000 %
59 WIND DIRECTION         18.0000 DEGREE TRUE
60 WIND SPEED             5.7000 M/S
61 MEASURED OZONE         .0030 PA
62 TIME INCREMENT         50.0000 SECOND
63 PRESSURE               99620.0000 PA
64 TEMPERATURE           277.7000 K
65 RELATIVE HUMIDI        77.0000 %
66 WIND DIRECTION         18.0000 DEGREE TRUE
67 WIND SPEED             5.6000 M/S
68 MEASURED OZONE         .0030 PA
    
```

| | | | |
|-----|-----------------|------------|-------------|
| 69 | TIME INCREMENT | 60.0000 | SECOND |
| 70 | PRESSURE | 99030.0000 | PA |
| 71 | TEMPERATURE | 277.3000 | K |
| 72 | RELATIVE HUMIDI | 81.0000 | % |
| 73 | WIND DIRECTION | 19.0000 | DEGREE TRUE |
| 74 | WIND SPEED | 5.6000 | M/S |
| 75 | MEASURED OZONE | .0030 | PA |
| 76 | TIME INCREMENT | 70.0000 | SECOND |
| 77 | PRESSURE | 98360.0000 | PA |
| 78 | TEMPERATURE | 276.7000 | K |
| 79 | RELATIVE HUMIDI | 81.0000 | % |
| 80 | WIND DIRECTION | 20.0000 | DEGREE TRUE |
| 81 | WIND SPEED | 5.6000 | M/S |
| 82 | MEASURED OZONE | .0030 | PA |
| 83 | TIME INCREMENT | 80.0000 | SECOND |
| 84 | PRESSURE | 97770.0000 | PA |
| 85 | TEMPERATURE | 276.2000 | K |
| 86 | RELATIVE HUMIDI | 83.0000 | % |
| 87 | WIND DIRECTION | 22.0000 | DEGREE TRUE |
| 88 | WIND SPEED | 5.7000 | M/S |
| 89 | MEASURED OZONE | .0030 | PA |
| 90 | TIME INCREMENT | 90.0000 | SECOND |
| 91 | PRESSURE | 97240.0000 | PA |
| 92 | TEMPERATURE | 275.8000 | K |
| 93 | RELATIVE HUMIDI | 85.0000 | % |
| 94 | WIND DIRECTION | 24.0000 | DEGREE TRUE |
| 95 | WIND SPEED | 5.8000 | M/S |
| 96 | MEASURED OZONE | .0030 | PA |
| 97 | TIME INCREMENT | 100.0000 | SECOND |
| 98 | PRESSURE | 96690.0000 | PA |
| 99 | TEMPERATURE | 275.3000 | K |
| 100 | RELATIVE HUMIDI | 87.0000 | % |

3.52 JASON data

RDB type 12, subtype 214

```

                                ECMWF
                                BUFR DECODING SOFTWARE VERSION - 6.1
                                07 JULY 2003.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
    BUFR SECTION 0
    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 5964
    BUFR EDITION NUMBER                  3
1
    BUFR SECTION 1
    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                  3
    ORIGINATING SUB-CENTRE                0
    ORIGINATING CENTRE                   98
    UPDATE SEQUENCE NUMBER                 0
    FLAG (PRESENCE OF SECTION 2)         128
    BUFR MESSAGE TYPE                     3
    BUFR MESSAGE SUBTYPE                  214
    VERSION NUMBER OF LOCAL TABLE        1
    YEAR                                   4
    MONTH                                  1
    DAY                                    1
    HOUR                                   21
    MINUTE                                 1
    VERSION NUMBER OF MASTER TABLE       11
    BUFR MASTER TABLE                    0
1
    BUFR SECTION 2
    LENGTH OF SECTION 2                   52
    REPORT DATA BASE KEY
    RDB DATA TYPE                        12
    RDB DATA SUBTYPE                      214
    YEAR                                   2004
    MONTH                                  1
    DAY                                    1
    HOUR                                   21
    MINUTE                                 1
    SECOND                                  6
    LATITUDE 1                            -65.83
    LONGITUDE 1                           114.50
    LATITUDE 2                             -63.65
    LONGITUDE 2                            130.76
    NUMBER OF OBSERVATIONS                  128
    IDENTIFIER                              260
    TOTAL BUFR MESSAGE LENGTH              5964
    DAY (RDB INSERTION)                    1
    HOUR (RDB INSERTION)                   23
    MINUTE (RDB INSERTION)                 11
    SECOND (RDB INSERTION)                 50
    DAY (MDB ARRIVAL)                      1
    HOUR (MDB ARRIVAL)                     23
    MINUTE (MDB ARRIVAL)                   9
    SECOND (MDB ARRIVAL)                   28
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    CORRECTION NUMBER                      0
    PART OF MESSAGE                        0
    QUALITY CONTROL % CONF                  70
1
    BUFR SECTION 3
    LENGTH OF SECTION 3 (BYTES)            154
    RESERVED                                0
    NUMBER OF DATA SUBSETS                 128
    FLAG (DATA TYPE/DATA COMPRESSION)      192

```

DATA DESCRIPTORS (UNEXPANDED)



1 001007
2 025060
3 001033
4 002048
5 002048
6 005040
7 201134
8 007001
9 201000
10 202131
11 007005
12 202000
13 301011
14 301012
15 004007
16 005001
17 006001
18 008029
19 008074
20 008012
21 025095
22 025096
23 025097
24 204001
25 031021
26 022070
27 204000
28 008023
29 022070
30 021128
31 123002
32 008076
33 204001
34 031021
35 201129
36 021062
37 201000
38 204000
39 008023
40 021062
41 204001
42 031021
43 201134
44 007001
45 201000
46 204000
47 202131
48 007005
49 202000
50 008023
51 202131
52 007001
53 202000
54 021128
55 204001
56 031021
57 002173
58 204000
59 107003
60 201130
61 002121
62 201000
63 204001
64 031021
65 012163
66 204000
67 104002
68 002023
69 202129
70 011012
71 202000
72 013090
73 013091

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 025060 SOFTWARE IDENTIFICATION
3 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
4 002048 SATELLITE SENSOR INDICATOR
5 002048 SATELLITE SENSOR INDICATOR
6 005040 ORBIT NUMBER
7 007001 HEIGHT OF STATION
8 007005 HEIGHT INCREMENT
9 004001 YEAR
10 004002 MONTH
11 004003 DAY
12 004004 HOUR
13 004005 MINUTE
14 004007 SECOND WITHIN MINUTE
15 005001 LATITUDE (HIGH ACCURACY)

16 006001 LONGITUDE (HIGH ACCURACY)
17 008029 REMOTELY SENSED SURFACE TYPE
18 008074 ALTIMETER ECHO TYPE
19 008012 LAND/SEA QUALIFIER
20 025095 ALTIMETER STATE FLAG
21 025096 RADIOMETER STATE FLAG
22 025097 THREE DIMENSIONAL ERROR ESTIMATE OF THE NAVIGATOR ORBIT
23 031021 ASSOCIATED FIELD SIGNIFICANCE
24 999999 ASSOCIATED FIELD
25 022070 SIGNIFICANT WAVE HEIGHT
26 008023 FIRST ORDER STATISTICS
27 022070 SIGNIFICANT WAVE HEIGHT
28 021128 NUMBER OF VALID POINTS PER SECOND USED TO DERIVE PREVIOUS PARAME
29 008076 TYPE OF BAND
30 031021 ASSOCIATED FIELD SIGNIFICANCE
31 999999 ASSOCIATED FIELD
32 021062 BACKSCATTER
33 008023 FIRST ORDER STATISTICS
34 021062 BACKSCATTER
35 031021 ASSOCIATED FIELD SIGNIFICANCE
36 999999 ASSOCIATED FIELD
37 007001 HEIGHT OF STATION
38 007005 HEIGHT INCREMENT
39 008023 FIRST ORDER STATISTICS
40 007001 HEIGHT OF STATION
41 021128 NUMBER OF VALID POINTS PER SECOND USED TO DERIVE PREVIOUS PARAME
42 008076 TYPE OF BAND
43 031021 ASSOCIATED FIELD SIGNIFICANCE
44 999999 ASSOCIATED FIELD
45 021062 BACKSCATTER
46 008023 FIRST ORDER STATISTICS
47 021062 BACKSCATTER
48 031021 ASSOCIATED FIELD SIGNIFICANCE
49 999999 ASSOCIATED FIELD
50 007001 HEIGHT OF STATION
51 007005 HEIGHT INCREMENT
52 008023 FIRST ORDER STATISTICS
53 007001 HEIGHT OF STATION
54 021128 NUMBER OF VALID POINTS PER SECOND USED TO DERIVE PREVIOUS PARAME
55 031021 ASSOCIATED FIELD SIGNIFICANCE
56 999999 ASSOCIATED FIELD
57 002173 SQUARE OF THE OFF NADIR ANGLE
58 002121 MEAN FREQUENCY
59 031021 ASSOCIATED FIELD SIGNIFICANCE
60 999999 ASSOCIATED FIELD
61 012163 BRIGHTNESS TEMPERATURE
62 002121 MEAN FREQUENCY
63 031021 ASSOCIATED FIELD SIGNIFICANCE
64 999999 ASSOCIATED FIELD
65 012163 BRIGHTNESS TEMPERATURE
66 002121 MEAN FREQUENCY
67 031021 ASSOCIATED FIELD SIGNIFICANCE
68 999999 ASSOCIATED FIELD
69 012163 BRIGHTNESS TEMPERATURE
70 002023 SATELLITE DERIVED WIND COMPUTATION METHOD
71 011012 WIND SPEED AT 10 M
72 002023 SATELLITE DERIVED WIND COMPUTATION METHOD
73 011012 WIND SPEED AT 10 M
74 013090 RADIOMETER WATER VAPOUR CONTENT
75 013091 RADIOMETER LIQUID CONTENT

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

1 SATELLITE IDENT .2600000000E+03 CODE TABLE 001007
2 SOFTWARE IDENTI .6000000000E+02 NUMERIC
3 IDENTIFICATION .8500000000E+02 CODE TABLE 001033
4 SATELLITE SENSO .9000000000E+01 CODE TABLE 002048
5 SATELLITE SENSO .1000000000E+02 CODE TABLE 002048
6 ORBIT NUMBER .9180000000E+04 NUMERIC
7 HEIGHT OF STATI .1355890000E+07 M
8 HEIGHT INCREMEN .1740000000E+00 M
9 YEAR .2004000000E+04 YEAR
10 MONTH .1000000000E+01 MONTH
11 DAY .1000000000E+01 DAY
12 HOUR .2100000000E+02 HOUR
13 MINUTE .1000000000E+01 MINUTE
14 SECOND WITHIN M .5908828000E+01 SECOND
15 LATITUDE (HIGH -.6582644000E+02 DEGREE
16 LONGITUDE (HIGH .1144973600E+03 DEGREE
17 REMOTELY SENSED .0000000000E+00 CODE TABLE 008029
18 ALTIMETER ECHO .0000000000E+00 CODE TABLE 008074
19 LAND/SEA QUALIF .1000000000E+01 CODE TABLE 008012
20 ALTIMETER STATE .0000000000E+00 FLAG TABLE 025095
21 RADIOMETER STAT .4000000000E+01 FLAG TABLE 025096
22 THREE DIMENSION .9000000000E+01 CODE TABLE 025097
23 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
24 ASSOCIATED FIEL .0000000000E+00
25 SIGNIFICANT WAV .8040000000E+01 M
26 FIRST ORDER STA .1000000000E+02 CODE TABLE 008023
27 SIGNIFICANT WAV .7570000000E+01 M
28 NUMBER OF VALID .2000000000E+02 NUMERIC
29 TYPE OF BAND .0000000000E+00 CODE TABLE 008076



```
30 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
31 ASSOCIATED FIEL .0000000000E+00
32 BACKSCATTER .1606000000E+02 dB
33 FIRST ORDER STA .1000000000E+02 CODE TABLE 008023
34 BACKSCATTER .2170000000E+01 dB
35 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
36 ASSOCIATED FIEL .0000000000E+00
37 HEIGHT OF STATI .1355910000E+07 M
38 HEIGHT INCREMEN .1220000000E+00 M
39 FIRST ORDER STA .1000000000E+02 CODE TABLE 008023
40 HEIGHT OF STATI .4569000000E+01 M
41 NUMBER OF VALID .2000000000E+02 NUMERIC
42 TYPE OF BAND .1000000000E+01 CODE TABLE 008076
43 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
44 ASSOCIATED FIEL .0000000000E+00
45 BACKSCATTER .2330000000E+02 dB
46 FIRST ORDER STA .1000000000E+02 CODE TABLE 008023
47 BACKSCATTER .1380000000E+01 dB
48 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
49 ASSOCIATED FIEL .0000000000E+00
50 HEIGHT OF STATI .1355913000E+07 M
51 HEIGHT INCREMEN .4230000000E+00 M
52 FIRST ORDER STA .1000000000E+02 CODE TABLE 008023
53 HEIGHT OF STATI .9925000000E+01 M
54 NUMBER OF VALID .2000000000E+02 NUMERIC
55 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
56 ASSOCIATED FIEL .0000000000E+00
57 SQUARE OF THE O .4900000000E-02 DEGREE**2
58 MEAN FREQUENCY .1870000000E+11 Hz
59 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
60 ASSOCIATED FIEL .0000000000E+00
61 BRIGHTNESS TEMP .2193000000E+03 K
62 MEAN FREQUENCY .2380000000E+11 Hz
63 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
64 ASSOCIATED FIEL .0000000000E+00
65 BRIGHTNESS TEMP .2172000000E+03 K
66 MEAN FREQUENCY .3400000000E+11 Hz
67 ASSOCIATED FIEL .1000000000E+01 CODE TABLE 031021
68 ASSOCIATED FIEL .0000000000E+00
69 BRIGHTNESS TEMP .2139700000E+03 K
70 SATELLITE DERIV .8000000000E+01 CODE TABLE 002023
71 WIND SPEED AT 1 .8400000000E+00 M/S
72 SATELLITE DERIV .9000000000E+01 CODE TABLE 002023
73 WIND SPEED AT 1 .4094000000E+02 M/S
74 RADIOMETER WATE .7100000000E+01 KG/M**2
75 RADIOMETER LIQU .0000000000E+00 KG/M**2
```

3.53 Geostationary radiances

RDB type 3, subtype 89

```

                                ECMWF
                                BUFR DECODING SOFTWARE VERSION - 6.1
                                07 JULY 2003.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000980601,D0000980601
1
    BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 4040
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE          0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER          0
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                5
BUFR MESSAGE SUBTYPE            89
VERSION NUMBER OF LOCAL TABLE  1
YEAR                              4
MONTH                             1
DAY                               1
HOUR                             10
MINUTE                           0
VERSION NUMBER OF MASTER TABLE  6
BUFR MASTER TABLE              0
1
    BUFR SECTION 2
LENGTH OF SECTION 2              52
REPORT DATA BASE KEY
RDB DATA TYPE                   3
RDB DATA SUBTYPE                89
YEAR                             2004
MONTH                             1
DAY                               1
HOUR                             10
MINUTE                           0
SECOND                           0
LATITUDE 1                       -59.85
LONGITUDE 1                       36.75
LATITUDE 2                       -52.76
LONGITUDE 2                       95.84
NUMBER OF OBSERVATIONS            128
IDENTIFIER                        52
TOTAL BUFR MESSAGE LENGTH        4040
DAY (RDB INSERTION)              1
HOUR (RDB INSERTION)             10
MINUTE (RDB INSERTION)           24
SECOND (RDB INSERTION)           11
DAY (MDB ARRIVAL)                1
HOUR (MDB ARRIVAL)               10
MINUTE (MDB ARRIVAL)             15
SECOND (MDB ARRIVAL)             30
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      292
RESERVED                          0
NUMBER OF DATA SUBSETS          128
FLAG (DATA TYPE/DATA COMPRESSION) 192
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DATA DESCRIPTORS (UNEXPANDED)



1 001007
2 001031
3 002196
4 002221
5 002222
6 004001
7 004002
8 004003
9 004004
10 004005
11 004006
12 005001
13 006001
14 007024
15 010002
16 002252
17 002023
18 007004
19 011001
20 011002
21 002197
22 002198
23 012193
24 002197
25 002198
26 020193
27 020194
28 020012
29 002197
30 002198
31 020193
32 020194
33 020012
34 002197
35 002198
36 020193
37 020194
38 020012
39 002197
40 002198
41 020193
42 020194
43 020012
44 002197
45 002198
46 020193
47 020194
48 020012
49 002197
50 002198
51 020193
52 020194
53 020012
54 002252
55 002199
56 007004
57 007004
58 013003
59 002252
60 002254
61 002251
62 002197
63 002198
64 012195
65 012196
66 012063
67 002252
68 002254
69 002251
70 002197
71 002198
72 012195
73 012196
74 012063
75 002252
76 002254
77 002251
78 002197
79 002198
80 012195
81 012196
82 012063
83 002252
84 002254
85 002251
86 002197
87 002198
88 012195
89 012196
90 012063
91 002252
92 002254

93 002251
94 002197
95 002198
96 012195
97 012196
98 012063
99 002252
100 002254
101 002251
102 002197
103 002198
104 012195
105 012196
106 012063
107 222000
108 236000
109 101106
110 031031
111 001031
112 001032
113 033007
114 033007
115 033007
116 033007
117 033007
118 033007
119 033007
120 222000
121 237000
122 001031
123 001032
124 033252
125 033252
126 033252
127 033252
128 033252
129 033252
130 033252
131 224000
132 237000
133 001031
134 001032
135 008023
136 224255
137 224255
138 224255
139 224255
140 224255
141 224255
142 224255

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
3 002196 SATELLITE CLASSIFICATION
4 002221 SEGMENT SIZE AT NADIR IN X DIRECTION
5 002222 SEGMENT SIZE AT NADIR IN Y DIRECTION
6 004001 YEAR
7 004002 MONTH
8 004003 DAY
9 004004 HOUR
10 004005 MINUTE
11 004006 SECOND
12 005001 LATITUDE (HIGH ACCURACY)
13 006001 LONGITUDE (HIGH ACCURACY)
14 007024 SATELLITE ZENITH ANGLE
15 010002 HEIGHT
16 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
17 002023 SATELLITE DERIVED WIND COMPUTATION METHOD
18 007004 PRESSURE
19 011001 WIND DIRECTION
20 011002 WIND SPEED
21 002197 SATELLITE CHANNEL CENTRE FREQUENCY
22 002198 SATELLITE CHANNEL BAND WIDTH
23 012193 COLDEST CLUSTER TEMPERATURE
24 002197 SATELLITE CHANNEL CENTRE FREQUENCY
25 002198 SATELLITE CHANNEL BAND WIDTH
26 020193 CLOUD AMOUNT IN SEGMENT
27 020194 AMOUNT OF SEGMENT CLOUD FREE
28 020012 CLOUD TYPE
29 002197 SATELLITE CHANNEL CENTRE FREQUENCY
30 002198 SATELLITE CHANNEL BAND WIDTH
31 020193 CLOUD AMOUNT IN SEGMENT
32 020194 AMOUNT OF SEGMENT CLOUD FREE
33 020012 CLOUD TYPE
34 002197 SATELLITE CHANNEL CENTRE FREQUENCY
35 002198 SATELLITE CHANNEL BAND WIDTH
36 020193 CLOUD AMOUNT IN SEGMENT
37 020194 AMOUNT OF SEGMENT CLOUD FREE
38 020012 CLOUD TYPE
39 002197 SATELLITE CHANNEL CENTRE FREQUENCY

40 002198 SATELLITE CHANNEL BAND WIDTH
41 020193 CLOUD AMOUNT IN SEGMENT
42 020194 AMOUNT OF SEGMENT CLOUD FREE
43 020012 CLOUD TYPE
44 002197 SATELLITE CHANNEL CENTRE FREQUENCY
45 002198 SATELLITE CHANNEL BAND WIDTH
46 020193 CLOUD AMOUNT IN SEGMENT
47 020194 AMOUNT OF SEGMENT CLOUD FREE
48 020012 CLOUD TYPE
49 002197 SATELLITE CHANNEL CENTRE FREQUENCY
50 002198 SATELLITE CHANNEL BAND WIDTH
51 020193 CLOUD AMOUNT IN SEGMENT
52 020194 AMOUNT OF SEGMENT CLOUD FREE
53 020012 CLOUD TYPE
54 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
55 002199 INTEGRATED MEAN HUMIDITY COMPUTATIONAL METHOD
56 007004 PRESSURE
57 007004 PRESSURE
58 013003 RELATIVE HUMIDITY
59 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
60 002254 RADIANCE TYPE
61 002251 RADIANCE COMPUTATIONAL METHOD
62 002197 SATELLITE CHANNEL CENTRE FREQUENCY
63 002198 SATELLITE CHANNEL BAND WIDTH
64 012195 SPECTRAL RADIANCE
65 012196 RADIANCE
66 012063 BRIGHTNESS TEMPERATURE
67 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
68 002254 RADIANCE TYPE
69 002251 RADIANCE COMPUTATIONAL METHOD
70 002197 SATELLITE CHANNEL CENTRE FREQUENCY
71 002198 SATELLITE CHANNEL BAND WIDTH
72 012195 SPECTRAL RADIANCE
73 012196 RADIANCE
74 012063 BRIGHTNESS TEMPERATURE
75 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
76 002254 RADIANCE TYPE
77 002251 RADIANCE COMPUTATIONAL METHOD
78 002197 SATELLITE CHANNEL CENTRE FREQUENCY
79 002198 SATELLITE CHANNEL BAND WIDTH
80 012195 SPECTRAL RADIANCE
81 012196 RADIANCE
82 012063 BRIGHTNESS TEMPERATURE
83 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
84 002254 RADIANCE TYPE
85 002251 RADIANCE COMPUTATIONAL METHOD
86 002197 SATELLITE CHANNEL CENTRE FREQUENCY
87 002198 SATELLITE CHANNEL BAND WIDTH
88 012195 SPECTRAL RADIANCE
89 012196 RADIANCE
90 012063 BRIGHTNESS TEMPERATURE
91 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
92 002254 RADIANCE TYPE
93 002251 RADIANCE COMPUTATIONAL METHOD
94 002197 SATELLITE CHANNEL CENTRE FREQUENCY
95 002198 SATELLITE CHANNEL BAND WIDTH
96 012195 SPECTRAL RADIANCE
97 012196 RADIANCE
98 012063 BRIGHTNESS TEMPERATURE
99 002252 SATELLITE INSTRUMENT DATA USED IN PROCESSING
100 002254 RADIANCE TYPE
101 002251 RADIANCE COMPUTATIONAL METHOD
102 002197 SATELLITE CHANNEL CENTRE FREQUENCY
103 002198 SATELLITE CHANNEL BAND WIDTH
104 012195 SPECTRAL RADIANCE
105 012196 RADIANCE
106 012063 BRIGHTNESS TEMPERATURE
107 222000 QUALITY INFORMATION FOLLOW
108 236000 BACKWARD REFERENCE BIT MAP
109 031031 DATA PRESENT INDICATOR
110 031031 DATA PRESENT INDICATOR
111 031031 DATA PRESENT INDICATOR
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212 031031 DATA PRESENT INDICATOR
213 031031 DATA PRESENT INDICATOR
214 031031 DATA PRESENT INDICATOR
215 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
216 001032 GENERATING APPLICATION
217 033007 % CONFIDENCE
218 033007 % CONFIDENCE
219 033007 % CONFIDENCE
220 033007 % CONFIDENCE
221 033007 % CONFIDENCE
222 033007 % CONFIDENCE
223 033007 % CONFIDENCE
224 222000 QUALITY INFORMATION FOLLOW
225 237000 USE PREVIOUSLY DEFINED BIT MAP
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226 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
227 001032 GENERATING APPLICATION
228 033252 MANUAL-AUTOMATIC QUALITY CONTROL
229 033252 MANUAL-AUTOMATIC QUALITY CONTROL
230 033252 MANUAL-AUTOMATIC QUALITY CONTROL
231 033252 MANUAL-AUTOMATIC QUALITY CONTROL
232 033252 MANUAL-AUTOMATIC QUALITY CONTROL
233 033252 MANUAL-AUTOMATIC QUALITY CONTROL
234 033252 MANUAL-AUTOMATIC QUALITY CONTROL
235 224000 FIRST ORDER STATISTICS FOLLOW
236 237000 USE PREVIOUSLY DEFINED BIT MAP
237 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
238 001032 GENERATING APPLICATION
239 008023 FIRST ORDER STATISTICS
240 224255 RELATIVE HUMIDITY
241 224255 SPECTRAL RADIANCE
242 224255 RADIANCE
243 224255 BRIGHTNESS TEMPERATURE
244 224255 SPECTRAL RADIANCE
245 224255 RADIANCE
246 224255 BRIGHTNESS TEMPERATURE

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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

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 1 SATELLITE IDENT      .5200000000E+02 CODE TABLE  1007
 2 IDENTIFICATION      .2540000000E+03 CODE TABLE  1031
 3 SATELLITE CLASS     .3310000000E+03 CODE TABLE  2196
 4 SEGMENT SIZE AT    .8000000000E+05 M
 5 SEGMENT SIZE AT    .8000000000E+05 M
 6 YEAR                .2004000000E+04 YEAR
 7 MONTH              .1000000000E+01 MONTH
 8 DAY                .1000000000E+01 DAY
 9 HOUR               .1000000000E+02 HOUR
10 MINUTE             .0000000000E+00 MINUTE
11 SECOND            .0000000000E+00 SECOND
12 LATITUDE (HIGH)   -.5985179000E+02 DEGREE
13 LONGITUDE (HIGH)  .7642863000E+02 DEGREE
14 SATELLITE ZENIT    .6248000000E+02 DEGREE
15 HEIGHT             MISSING M
16 SATELLITE INSTR    MISSING FLAG TABLE  2252
17 SATELLITE DERIV    MISSING CODE TABLE  2023
18 PRESSURE           MISSING PA
19 WIND DIRECTION     MISSING DEGREE TRUE
20 WIND SPEED         MISSING M/S
21 SATELLITE CHANN    MISSING Hz
22 SATELLITE CHANN    MISSING Hz
23 COLDEST CLUSTER   MISSING K
24 SATELLITE CHANN    .4760000000E+14 Hz
25 SATELLITE CHANN    .7600000000E+13 Hz
26 CLOUD AMOUNT IN   .9200000000E+02 %
27 AMOUNT OF SEGME   .0000000000E+00 %
28 CLOUD TYPE        MISSING CODE TABLE  20012
29 SATELLITE CHANN    .2650000000E+14 Hz
30 SATELLITE CHANN    .3090000000E+13 Hz
31 CLOUD AMOUNT IN   .9200000000E+02 %
32 AMOUNT OF SEGME   .0000000000E+00 %
33 CLOUD TYPE        MISSING CODE TABLE  20012
34 SATELLITE CHANN    MISSING Hz
35 SATELLITE CHANN    MISSING Hz
36 CLOUD AMOUNT IN   MISSING %
37 AMOUNT OF SEGME   MISSING %
38 CLOUD TYPE        MISSING CODE TABLE  20012
39 SATELLITE CHANN    MISSING Hz
40 SATELLITE CHANN    MISSING Hz
41 CLOUD AMOUNT IN   MISSING %
42 AMOUNT OF SEGME   MISSING %
43 CLOUD TYPE        MISSING CODE TABLE  20012
44 SATELLITE CHANN    MISSING Hz
45 SATELLITE CHANN    MISSING Hz
46 CLOUD AMOUNT IN   MISSING %
47 AMOUNT OF SEGME   MISSING %
48 CLOUD TYPE        MISSING CODE TABLE  20012
49 SATELLITE CHANN    MISSING Hz
50 SATELLITE CHANN    MISSING Hz
51 CLOUD AMOUNT IN   MISSING %
52 AMOUNT OF SEGME   MISSING %
53 CLOUD TYPE        MISSING CODE TABLE  20012
54 SATELLITE INSTR    .4194304000E+07 FLAG TABLE  2252
55 INTEGRATED MEAN    .1000000000E+01 CODE TABLE  2199
56 PRESSURE           .6000000000E+05 PA
57 PRESSURE           .3000000000E+05 PA
58 RELATIVE HUMIDI    MISSING %
59 SATELLITE INSTR    .4194304000E+07 FLAG TABLE  2252
60 RADIANCE TYPE      .2000000000E+01 CODE TABLE  2254
61 RADIANCE COMPUT    .2000000000E+01 CODE TABLE  2251
62 SATELLITE CHANN    .4760000000E+14 Hz
63 SATELLITE CHANN    .7600000000E+13 Hz
64 SPECTRAL RADIAN    MISSING W/M**2*STER*M** (-1)
65 RADIANCE           MISSING W/M**2*STER
66 BRIGHTNESS TEMP    MISSING K
67 SATELLITE INSTR    .4194304000E+07 FLAG TABLE  2252
68 RADIANCE TYPE      .2000000000E+01 CODE TABLE  2254

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| | | | | |
|-----|-----------------|-----------------|-----------------------------|------|
| 69 | RADIANCE COMPUT | .2000000000E+01 | CODE TABLE | 2251 |
| 70 | SATELLITE CHANN | .2650000000E+14 | Hz | |
| 71 | SATELLITE CHANN | .3090000000E+13 | Hz | |
| 72 | SPECTRAL RADIAN | | MISSING W/M**2*STER*M**(-1) | |
| 73 | RADIANCE | | MISSING W/M**2*STER | |
| 74 | BRIGHTNESS TEMP | | MISSING K | |
| 75 | SATELLITE INSTR | | MISSING FLAG TABLE | 2252 |
| 76 | RADIANCE TYPE | | MISSING CODE TABLE | 2254 |
| 77 | RADIANCE COMPUT | | MISSING CODE TABLE | 2251 |
| 78 | SATELLITE CHANN | | MISSING Hz | |
| 79 | SATELLITE CHANN | | MISSING Hz | |
| 80 | SPECTRAL RADIAN | | MISSING W/M**2*STER*M**(-1) | |
| 81 | RADIANCE | | MISSING W/M**2*STER | |
| 82 | BRIGHTNESS TEMP | | MISSING K | |
| 83 | SATELLITE INSTR | | MISSING FLAG TABLE | 2252 |
| 84 | RADIANCE TYPE | | MISSING CODE TABLE | 2254 |
| 85 | RADIANCE COMPUT | | MISSING CODE TABLE | 2251 |
| 86 | SATELLITE CHANN | | MISSING Hz | |
| 87 | SATELLITE CHANN | | MISSING Hz | |
| 88 | SPECTRAL RADIAN | | MISSING W/M**2*STER*M**(-1) | |
| 89 | RADIANCE | | MISSING W/M**2*STER | |
| 90 | BRIGHTNESS TEMP | | MISSING K | |
| 91 | SATELLITE INSTR | | MISSING FLAG TABLE | 2252 |
| 92 | RADIANCE TYPE | | MISSING CODE TABLE | 2254 |
| 93 | RADIANCE COMPUT | | MISSING CODE TABLE | 2251 |
| 94 | SATELLITE CHANN | | MISSING Hz | |
| 95 | SATELLITE CHANN | | MISSING Hz | |
| 96 | SPECTRAL RADIAN | | MISSING W/M**2*STER*M**(-1) | |
| 97 | RADIANCE | | MISSING W/M**2*STER | |
| 98 | BRIGHTNESS TEMP | | MISSING K | |
| 99 | SATELLITE INSTR | | MISSING FLAG TABLE | 2252 |
| 100 | RADIANCE TYPE | | MISSING CODE TABLE | 2254 |
| 101 | RADIANCE COMPUT | | MISSING CODE TABLE | 2251 |
| 102 | SATELLITE CHANN | | MISSING Hz | |
| 103 | SATELLITE CHANN | | MISSING Hz | |
| 104 | SPECTRAL RADIAN | | MISSING W/M**2*STER*M**(-1) | |
| 105 | RADIANCE | | MISSING W/M**2*STER | |
| 106 | BRIGHTNESS TEMP | | MISSING K | |
| 107 | QUALITY INFORMA | .0000000000E+00 | | |
| 108 | BACKWARD REFERE | .0000000000E+00 | | |
| 109 | DATA PRESENT IN | | MISSING NUMERIC | |
| 110 | DATA PRESENT IN | | MISSING NUMERIC | |
| 111 | DATA PRESENT IN | | MISSING NUMERIC | |
| 112 | DATA PRESENT IN | | MISSING NUMERIC | |
| 113 | DATA PRESENT IN | | MISSING NUMERIC | |
| 114 | DATA PRESENT IN | | MISSING NUMERIC | |
| 115 | DATA PRESENT IN | | MISSING NUMERIC | |
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| 160 | DATA PRESENT IN | | MISSING NUMERIC | |
| 161 | DATA PRESENT IN | | MISSING NUMERIC | |

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162 DATA PRESENT IN          MISSING NUMERIC
163 DATA PRESENT IN          MISSING NUMERIC
164 DATA PRESENT IN          MISSING NUMERIC
165 DATA PRESENT IN          MISSING NUMERIC
166 DATA PRESENT IN          .0000000000E+00 NUMERIC
167 DATA PRESENT IN          MISSING NUMERIC
168 DATA PRESENT IN          MISSING NUMERIC
169 DATA PRESENT IN          MISSING NUMERIC
170 DATA PRESENT IN          MISSING NUMERIC
171 DATA PRESENT IN          MISSING NUMERIC
172 DATA PRESENT IN          .0000000000E+00 NUMERIC
173 DATA PRESENT IN          .0000000000E+00 NUMERIC
174 DATA PRESENT IN          .0000000000E+00 NUMERIC
175 DATA PRESENT IN          MISSING NUMERIC
176 DATA PRESENT IN          MISSING NUMERIC
177 DATA PRESENT IN          MISSING NUMERIC
178 DATA PRESENT IN          MISSING NUMERIC
179 DATA PRESENT IN          MISSING NUMERIC
180 DATA PRESENT IN          .0000000000E+00 NUMERIC
181 DATA PRESENT IN          .0000000000E+00 NUMERIC
182 DATA PRESENT IN          .0000000000E+00 NUMERIC
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212 DATA PRESENT IN          MISSING NUMERIC
213 DATA PRESENT IN          MISSING NUMERIC
214 DATA PRESENT IN          MISSING NUMERIC
215 IDENTIFICATION            .2540000000E+03 CODE TABLE 1031
216 GENERATING APPL          .1000000000E+01 CODE TABLE 1032
217 % CONFIDENCE              MISSING NUMERIC
218 % CONFIDENCE              MISSING NUMERIC
219 % CONFIDENCE              MISSING NUMERIC
220 % CONFIDENCE              MISSING NUMERIC
221 % CONFIDENCE              MISSING NUMERIC
222 % CONFIDENCE              MISSING NUMERIC
223 % CONFIDENCE              MISSING NUMERIC
224 QUALITY INFORMA          .0000000000E+00
225 USE PREVIOUSLY          .0000000000E+00
226 IDENTIFICATION            .2540000000E+03 CODE TABLE 1031
227 GENERATING APPL          .1000000000E+01 CODE TABLE 1032
228 MANUAL-AUTOMATI          .3000000000E+01 CODE TABLE 33252
229 MANUAL-AUTOMATI          .3000000000E+01 CODE TABLE 33252
230 MANUAL-AUTOMATI          .3000000000E+01 CODE TABLE 33252
231 MANUAL-AUTOMATI          .3000000000E+01 CODE TABLE 33252
232 MANUAL-AUTOMATI          .3000000000E+01 CODE TABLE 33252
233 MANUAL-AUTOMATI          .3000000000E+01 CODE TABLE 33252
234 MANUAL-AUTOMATI          .3000000000E+01 CODE TABLE 33252
235 FIRST ORDER STA          .0000000000E+00
236 USE PREVIOUSLY          .0000000000E+00
237 IDENTIFICATION            .2540000000E+03 CODE TABLE 1031
238 GENERATING APPL          .1000000000E+01 CODE TABLE 1032
239 FIRST ORDER STA          .1000000000E+02 CODE TABLE 8023
240 RELATIVE HUMIDI          MISSING %
241 SPECTRAL RADIAN          MISSING W/M**2*STER*M**(-1)
242 RADIANCE                  MISSING W/M**2*STER
243 BRIGHTNESS TEMP          MISSING K
244 SPECTRAL RADIAN          MISSING W/M**2*STER*M**(-1)
245 RADIANCE                  MISSING W/M**2*STER
246 BRIGHTNESS TEMP          MISSING K

```

3.54 Envisat MERIS data

RDB type 3, subtype 212

```

                                ECMWF
                                BUFR DECODING SOFTWARE VERSION - 6.1
                                07 JULY 2003.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 2038
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE          0
ORIGINATING CENTRE              98
UPDATE SEQUENCE NUMBER          1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                5
BUFR MESSAGE SUBTYPE            212
VERSION NUMBER OF LOCAL TABLE  1
YEAR                             103
MONTH                             5
DAY                               48
HOUR                              40
MINUTE                            83
VERSION NUMBER OF MASTER TABLE 11
BUFR MASTER TABLE              0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                   3
RDB DATA SUBTYPE                212
YEAR                             2003
MONTH                             12
DAY                               29
HOUR                              5
MINUTE                            48
SECOND                            40
LATITUDE 1                       52.14
LONGITUDE 1                       75.51
LATITUDE 2                       53.80
LONGITUDE 2                       82.88
NUMBER OF OBSERVATIONS            128
IDENTIFIER                       60
TOTAL BUFR MESSAGE LENGTH        2038
DAY (RDB INSERTION)              29
HOUR (RDB INSERTION)             13
MINUTE (RDB INSERTION)           43
SECOND (RDB INSERTION)           5
DAY (MDB ARRIVAL)                29
HOUR (MDB ARRIVAL)              13
MINUTE (MDB ARRIVAL)            42
SECOND (MDB ARRIVAL)             30
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
QUALITY CONTROL % CONF           70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      10
RESERVED                          0
NUMBER OF DATA SUBSETS          128
FLAG (DATA TYPE/DATA COMPRESSION) 192

```

DATA DESCRIPTORS (UNEXPANDED)



1 312050

DATA DESCRIPTORS (EXPANDED)

```

1 001007 SATELLITE IDENTIFIER
2 002019 SATELLITE INSTRUMENTS
3 001096 ACQUISITION STATION IDENTIFIER
4 025061 SOFTWARE IDENTIFICATION
5 005040 ORBIT NUMBER
6 004001 YEAR
7 004002 MONTH
8 004003 DAY
9 004004 HOUR
10 004005 MINUTE
11 004006 SECOND
12 005001 LATITUDE (HIGH ACCURACY)
13 006001 LONGITUDE (HIGH ACCURACY)
14 007025 SOLAR ZENITH ANGLE
15 005022 SOLAR AZIMUTH
16 010080 VIEWING ZENITH ANGLE
17 027080 VIEWING AZIMUTH ANGLE
18 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
19 007004 PRESSURE
20 013093 CLOUD OPTICAL THICKNESS
21 008003 VERTICAL SIGNIFICANCE (SATELLITE OBSERVATIONS)
22 007004 PRESSURE
23 007004 PRESSURE
24 013095 TOTAL COLUMN WATER VAPOUR

```

STARTING SUBSET TO BE PRINTED : 1

ENDING SUBSET TO BE PRINTED : 1

```

1 SATELLITE IDENT .6000000000E+02 CODE TABLE 001007
2 SATELLITE INSTR .1740000000E+03 CODE TABLE 002019
3 ACQUISITION STA .1020000000E+04 CCITTIA5 PDHS-K
4 SOFTWARE IDENTI .1290120000E+06 CCITTIA5 MERIS/4.07
5 ORBIT NUMBER .9564000000E+04 NUMERIC
6 YEAR .2003000000E+04 YEAR
7 MONTH .1200000000E+02 MONTH
8 DAY .2900000000E+02 DAY
9 HOUR .5000000000E+01 HOUR
10 MINUTE .4800000000E+02 MINUTE
11 SECOND .4000000000E+02 SECOND
12 LATITUDE (HIGH .5213884000E+02 DEGREE
13 LONGITUDE (HIGH .8288442000E+02 DEGREE
14 SOLAR ZENITH AN .7594000000E+02 DEGREE
15 SOLAR AZIMUTH .1701700000E+03 DEGREE TRUE
16 VIEWING ZENITH .4061000000E+02 DEGREE
17 VIEWING AZIMUTH .2933600000E+03 DEGREE TRUE
18 VERTICAL SIGNIF .2000000000E+01 CODE TABLE 008003
19 PRESSURE MISSING PA
20 CLOUD OPTICAL T MISSING NUMERIC
21 VERTICAL SIGNIF MISSING CODE TABLE 008003
22 PRESSURE .1000000000E+01 PA
23 PRESSURE .1031700000E+06 PA
24 TOTAL COLUMN WA .0000000000E+00 KG/M**2

```

3.55 Envisat ASAR data

RDB type 12, subtype 210

```

                                ECMWF

    BUFR DECODING SOFTWARE VERSION - 6.1
                                07 JULY 2003.

Your path for bufr tables is :
/home/ma/emos/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
    BUFR SECTION 0

    LENGTH OF SECTION 0 (BYTES)      8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 6380
    BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

    LENGTH OF SECTION 1 (BYTES)      18
    BUFR EDITION NUMBER              3
    ORIGINATING SUB-CENTRE           0
    ORIGINATING CENTRE               98
    UPDATE SEQUENCE NUMBER            1
    FLAG (PRESENCE OF SECTION 2)     128
    BUFR MESSAGE TYPE                 12
    BUFR MESSAGE SUBTYPE              210
    VERSION NUMBER OF LOCAL TABLE    1
    YEAR                              3
    MONTH                             12
    DAY                               29
    HOUR                              5
    MINUTE                            40
    VERSION NUMBER OF MASTER TABLE   11
    BUFR MASTER TABLE                0
1
    BUFR SECTION 2

    LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

    RDB DATA TYPE                    12
    RDB DATA SUBTYPE                  210
    YEAR                              2003
    MONTH                             12
    DAY                               29
    HOUR                              5
    MINUTE                            40
    SECOND                             26
    LATITUDE 1                         81.17
    LONGITUDE 1                       106.01
    LATITUDE 2                         81.81
    LONGITUDE 2                       110.23
    NUMBER OF OBSERVATIONS              2
    IDENTIFIER                          60
    TOTAL BUFR MESSAGE LENGTH          6380
    DAY (RDB INSERTION)                 29
    HOUR (RDB INSERTION)                 9
    MINUTE (RDB INSERTION)               39
    SECOND (RDB INSERTION)               7
    DAY (MDB ARRIVAL)                   29
    HOUR (MDB ARRIVAL)                   9
    MINUTE (MDB ARRIVAL)                 34
    SECOND (MDB ARRIVAL)                 48
    CORRECTION NUMBER                   0
    PART OF MESSAGE                      0
    CORRECTION NUMBER                   0
    PART OF MESSAGE                      0
    CORRECTION NUMBER                   0
    PART OF MESSAGE                      0
    CORRECTION NUMBER                   0
    PART OF MESSAGE                      0
    CORRECTION NUMBER                   0
    PART OF MESSAGE                      0
    QUALITY CONTROL % CONF              70
1
    BUFR SECTION 3

    LENGTH OF SECTION 3 (BYTES)        10
    RESERVED                            0
    NUMBER OF DATA SUBSETS              2
    FLAG (DATA TYPE/DATA COMPRESSION)   192
```

DATA DESCRIPTORS (UNEXPANDED)

1 312051

DATA DESCRIPTORS (EXPANDED)

```

1 001007 SATELLITE IDENTIFIER
2 002019 SATELLITE INSTRUMENTS
3 001096 ACQUISITION STATION IDENTIFIER
4 025061 SOFTWARE IDENTIFICATION
5 005040 ORBIT NUMBER
6 008075 ASCENDING/DSCENDING ORBIT QUALIFIER
7 004001 YEAR
8 004002 MONTH
9 004003 DAY
10 004004 HOUR
11 004005 MINUTE
12 004006 SECOND
13 005001 LATITUDE (HIGH ACCURACY)
14 006001 LONGITUDE (HIGH ACCURACY)
15 001012 DIRECTION OF MOTION OF MOVING OBSERVING PLATFORM
16 001013 SPEED OF MOTION OF MOVING OBSERVING PLATFORM
17 010032 SATELLITE DISTANCE TO EARTH CENTRE
18 010033 ALTITUDE (PLATFORM TO ELLIPSOID)
19 010034 EARTH RADIUS
20 007002 HEIGHT OR ALTITUDE
21 008012 LAND/SEA QUALIFIER
22 025110 IMAGE PROCESSING SUMMARY
23 025111 NUMBER OF INPUT DATA GAPS
24 025102 NUMBER OF MISSING LINES EXCLUDING DATA GAPS
25 002104 ANTENNA POLARISATION
26 025103 NUMBER OF DIRECTIONAL BINS
27 025104 NUMBER OF WAVELENGTH BINS
28 025105 FIRST DIRECTIONAL BIN
29 025106 DIRECTIONAL BIN STEP
30 025107 FIRST WAVELENGTH BIN
31 025108 LAST WAVELENGTH BIN
32 002111 RADAR INCIDENCE ANGLE
33 002121 MEAN FREQUENCY
34 002026 CROSS TRACK RESOLUTION
35 002027 ALONG TRACK RESOLUTION
36 021130 SPECTRUM TOTAL ENERGY
37 021131 SPECTRUM MAX ENERGY
38 021132 DIRECTION OF SPECTRUM MAX ON HIGHER RESOLUTION GRID
39 021133 WAVELENGTH OF SPECTRUM MAX ON HIGHER RESOLUTION GRID
40 021064 CLUTTER NOISE ESTIMATE
41 025014 AZIMUTH CLUTTER CUT-OFF
42 021134 RANGE RESOLUTION OF CROSS COVARIANCE SPECTRUM
43 005030 DIRECTION (SPECTRAL)
44 006030 WAVE NUMBER (SPECTRAL)
45 021135 REAL PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
46 021136 IMAGINARY PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
47 006030 WAVE NUMBER (SPECTRAL)
48 021135 REAL PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
49 021136 IMAGINARY PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
...
...
...
1345 006030 WAVE NUMBER (SPECTRAL)
1346 021135 REAL PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1347 021136 IMAGINARY PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1348 006030 WAVE NUMBER (SPECTRAL)
1349 021135 REAL PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1350 021136 IMAGINARY PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1351 006030 WAVE NUMBER (SPECTRAL)
1352 021135 REAL PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1353 021136 IMAGINARY PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1354 006030 WAVE NUMBER (SPECTRAL)
1355 021135 REAL PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1356 021136 IMAGINARY PART OF CROSS SPECTRA POLAR GRID NUMBER OF BINS
1357 033044 ASAR QUALITY INFORMATION

```

STARTING SUBSET TO BE PRINTED : 1

ENDING SUBSET TO BE PRINTED : 1

```

1 SATELLITE IDENT .6000000000E+02 CODE TABLE 001007
2 SATELLITE INSTR .1430000000E+03 CODE TABLE 002019
3 ACQUISITION STA .1020000000E+04 CCITTIA5 PDHS-K
4 SOFTWARE IDENTI .3012000000E+04 CCITTIA5 ASAR/3.06
5 ORBIT NUMBER .9564000000E+04 NUMERIC
6 ASCENDING/DESCE .1000000000E+01 CODE TABLE 008075
7 YEAR .2003000000E+04 YEAR
8 MONTH .1200000000E+02 MONTH
9 DAY .2900000000E+02 DAY
10 HOUR .5000000000E+01 HOUR
11 MINUTE .4000000000E+02 MINUTE
12 SECOND .2600000000E+02 SECOND
13 LATITUDE (HIGH .8180906000E+02 DEGREE
14 LONGITUDE (HIGH .1102284700E+03 DEGREE
15 DIRECTION OF MO .2360000000E+03 DEGREE TRUE
16 SPEED OF MOTION .6652000000E+04 M/S

```

```
17 SATELLITE DISTA      .7195566400E+07 M
18 ALTITUDE (PLATF     .7966751000E+06 M
19 EARTH RADIUS        .6398891200E+07 M
20 HEIGHT OR ALTTIT    .0000000000E+00 M
21 LAND/SEA QUALIF     .1000000000E+01 CODE TABLE 008012
22 IMAGE PROCESSIN     .3200000000E+03 FLAG TABLE 025110
23 NUMBER OF INPUT     .0000000000E+00 NUMERIC
24 NUMBER OF MISSI     .0000000000E+00 NUMERIC
25 ANTENNA POLARIS     .1000000000E+01 CODE TABLE 002104
26 NUMBER OF DIREC     .3600000000E+02 NUMERIC
27 NUMBER OF WAVEL     .2400000000E+02 NUMERIC
28 FIRST DIRECTION     .0000000000E+00 DEGREES
29 DIRECTIONAL BIN     .1000000000E+02 DEGREES
30 FIRST WAVELENGH     .8000000000E+03 M
31 LAST WAVELENGHT     .3000000000E+02 M
32 RADAR INCIDENCE     .2280000000E+02 DEGREE
33 MEAN FREQUENCY      .5300000000E+10 Hz
34 CROSS TRACK RES     .8300000000E+01 M
35 ALONG TRACK RES     .4030000000E+01 M
36 SPECTRUM TOTAL      .2212420000E+00 NUMERIC
37 SPECTRUM MAX EN     .3100000000E-04 NUMERIC
38 DIRECTION OF SP     .0000000000E+00 DEGREES
39 WAVELENGHT OF S     .8000000000E+03 M
40 CLUTTER NOISE E     .0000000000E+00 NUMERIC
41 AZIMUTH CLUTTER     .1060000000E+03 NUMERIC
42 RANGE RESOLUTIO     .2012700000E+02 RAD/M
43 DIRECTION (SPEC     .0000000000E+00 DEGREE
44 WAVE NUMBER (SP     .7850000000E-02 RAD/M
45 REAL PART OF CR     .8320800000E+02 NUMERIC
46 IMAGINARY PART      .7760000000E+00 NUMERIC
47 WAVE NUMBER (SP     .9060000000E-02 RAD/M
48 REAL PART OF CR     .7270800000E+02 NUMERIC
49 IMAGINARY PART      .3210000000E+00 NUMERIC
...
...
...
1345 WAVE NUMBER (SP   .1364800000E+00 RAD/M
1346 REAL PART OF CR   .1970000000E+00 NUMERIC
1347 IMAGINARY PART    .3100000000E-01 NUMERIC
1348 WAVE NUMBER (SP   .1574200000E+00 RAD/M
1349 REAL PART OF CR   -.1310000000E+00 NUMERIC
1350 IMAGINARY PART    .5200000000E-01 NUMERIC
1351 WAVE NUMBER (SP   .1815800000E+00 RAD/M
1352 REAL PART OF CR   -.1310000000E+00 NUMERIC
1353 IMAGINARY PART    .1350000000E+00 NUMERIC
1354 WAVE NUMBER (SP   .2094400000E+00 RAD/M
1355 REAL PART OF CR   -.1310000000E+00 NUMERIC
1356 IMAGINARY PART    .9300000000E-01 NUMERIC
1357 ASAR QUALITY IN   .8328000000E+04 FLAG TABLE 033044
```




3.56 Envisat AATSR data

RDB type 12, subtype 220

```

          ECMWF
          BUFR DECODING SOFTWARE VERSION - 6.1
          25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
      BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)          8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 3036
BUFR EDITION NUMBER                   3
1
      BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)          18
BUFR EDITION NUMBER                   3
ORIGINATING SUB-CENTRE                 0
ORIGINATING CENTRE                     98
UPDATE SEQUENCE NUMBER                  1
FLAG (PRESENCE OF SECTION 2)          128
BUFR MESSAGE TYPE                       12
BUFR MESSAGE SUBTYPE                    220
VERSION NUMBER OF LOCAL TABLE         1
YEAR                                     3
MONTH                                    12
DAY                                      27
HOUR                                     6
MINUTE                                   39
VERSION NUMBER OF MASTER TABLE        11
BUFR MASTER TABLE                     0
1
      BUFR SECTION 2

LENGTH OF SECTION 2                    52

      REPORT DATA BASE KEY

RDB DATA TYPE                          12
RDB DATA SUBTYPE                        220
YEAR                                     2003
MONTH                                    12
DAY                                      27
HOUR                                     6
MINUTE                                   39
SECOND                                  17
LATITUDE 1                              75.83
LONGITUDE 1                             -180.00
LATITUDE 2                              82.83
LONGITUDE 2                             -179.67
NUMBER OF OBSERVATIONS                   128
IDENTIFIER                               60
TOTAL BUFR MESSAGE LENGTH                3036
DAY (RDB INSERTION)                      27
HOUR (RDB INSERTION)                     18
MINUTE (RDB INSERTION)                   39
SECOND (RDB INSERTION)                   52
DAY (MDB ARRIVAL)                        27
HOUR (MDB ARRIVAL)                       18
MINUTE (MDB ARRIVAL)                     38
SECOND (MDB ARRIVAL)                     45
CORRECTION NUMBER                        0
PART OF MESSAGE                          0
CORRECTION NUMBER                        0
PART OF MESSAGE                          0
CORRECTION NUMBER                        0
PART OF MESSAGE                          0
CORRECTION NUMBER                        0
PART OF MESSAGE                          0
CORRECTION NUMBER                        0
PART OF MESSAGE                          0
QUALITY CONTROL % CONF                    70
1
      BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)              10
RESERVED                                 0
NUMBER OF DATA SUBSETS                  128
FLAG (DATA TYPE/DATA COMPRESSION)       192

```

DATA DESCRIPTORS (UNEXPANDED)

1 312045

DATA DESCRIPTORS (EXPANDED)

```
1 001007 SATELLITE IDENTIFIER
2 002019 SATELLITE INSTRUMENTS
3 001096 ACQUISITION STATION IDENTIFIER
4 025061 SOFTWARE IDENTIFICATION
5 005040 ORBIT NUMBER
6 004001 YEAR
7 004002 MONTH
8 004003 DAY
9 004004 HOUR
10 004005 MINUTE
11 004006 SECOND
12 005001 LATITUDE (HIGH ACCURACY)
13 006001 LONGITUDE (HIGH ACCURACY)
14 007002 HEIGHT OR ALTITUDE
15 012180 AVERAGED 12 MICRON BT for ALL CLEAR PIXELS AT NADIR
16 012181 AVERAGED 11 MICRON BT for ALL CLEAR PIXELS AT NADIR
17 012182 AVERAGED 3.7 MICRON BT for ALL CLEAR PIXELS AT NADIR
18 012183 AVERAGED 12 MICRON BT for ALL CLEAR PIXELS, FORWARD VIEW
19 012184 AVERAGED 11 MICRON BT for ALL CLEAR PIXELS, FORWARD VIEW
20 012185 AVERAGED 3.7 MICRON BT for ALL CLEAR PIXELS, FORWARD VIEW
21 002174 MEAN ACROSS TRACK PIXEL NUMBER
22 021086 NUMBER OF PIXELS IN NADIR ONLY, AVERAGE
23 012186 MEAN NADIR SEA SURFACE TEMPERATURE
24 021087 NUMBER OF PIXELS IN DUAL VIEW, AVERAGE
25 012187 MEAN DUAL VIEW SEA SURFACE TEMPERATURE
26 033043 AST CONFIDENCE
```

STARTING SUBSET TO BE PRINTED : 1

ENDING SUBSET TO BE PRINTED : 1

```
1 SATELLITE IDENT .6000000000E+02 CODE TABLE 001007
2 SATELLITE INSTR .1000000000E+02 CODE TABLE 002019
3 ACQUISITION STA .1020000000E+04 CCITTIA5 PDHS-K
4 SOFTWARE IDENTI .1290120000E+06 CCITTIA5
5 ORBIT NUMBER .9535000000E+04 NUMERIC
6 YEAR .2003000000E+04 YEAR
7 MONTH .1200000000E+02 MONTH
8 DAY .2700000000E+02 DAY
9 HOUR .6000000000E+01 HOUR
10 MINUTE .3900000000E+02 MINUTE
11 SECOND .1700000000E+02 SECOND
12 LATITUDE (HIGH .7583335114E+02 DEGREE
13 LONGITUDE (HIGH -.1800000000E+03 DEGREE
14 HEIGHT OR ALTIT .0000000000E+00 M
15 AVERAGED 12 MIC MISSING K
16 AVERAGED 11 MIC MISSING K
17 AVERAGED 3.7 MI MISSING K
18 AVERAGED 12 MIC MISSING K
19 AVERAGED 11 MIC MISSING K
20 AVERAGED 3.7 MI MISSING K
21 MEAN ACROSS TRA MISSING NUMERIC
22 NUMBER OF PIXEL .0000000000E+00 NUMERIC
23 MEAN NADIR SEA MISSING K
24 NUMBER OF PIXEL .0000000000E+00 NUMERIC
25 MEAN DUAL VIEW MISSING K
26 AST CONFIDENCE .0000000000E+00 FLAG TABLE 033043
```

3.57 Envisat GOMOS data

RDB type 12, subtype 206

```

          ECMWF

    BUFR DECODING SOFTWARE VERSION - 6.1
      25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
    BUFR SECTION 0

LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 2810
BUFR EDITION NUMBER              3
1
    BUFR SECTION 1

LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 3
BUFR MESSAGE SUBTYPE             206
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              3
MONTH                             12
DAY                               27
HOUR                              5
MINUTE                            2
VERSION NUMBER OF MASTER TABLE  11
BUFR MASTER TABLE               0
1
    BUFR SECTION 2

LENGTH OF SECTION 2              52

    REPORT DATA BASE KEY

RDB DATA TYPE                    2
RDB DATA SUBTYPE                 206
YEAR                             2003
MONTH                             12
DAY                               27
HOUR                              5
MINUTE                            2
SECOND                            32
LATITUDE 1                        72.66
LONGITUDE 1                       -86.72
LATITUDE 2                        72.66
LONGITUDE 2                       -86.72
NUMBER OF OBSERVATIONS             1
IDENTIFIER                         60
TOTAL BUFR MESSAGE LENGTH         2810
DAY (RDB INSERTION)               27
HOUR (RDB INSERTION)              12
MINUTE (RDB INSERTION)            58
SECOND (RDB INSERTION)            19
DAY (MDB ARRIVAL)                 27
HOUR (MDB ARRIVAL)                12
MINUTE (MDB ARRIVAL)              54
SECOND (MDB ARRIVAL)              11
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
CORRECTION NUMBER                  0
PART OF MESSAGE                    0
QUALITY CONTROL % CONF            70
1
    BUFR SECTION 3

LENGTH OF SECTION 3 (BYTES)      32
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 192

```

DATA DESCRIPTORS (UNEXPANDED)

1 310030
2 224000
3 236000
4 101000
5 031002
6 031031
7 001031
8 001032
9 008023
10 101000
11 031002
12 224255

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
2 002019 SATELLITE INSTRUMENTS
3 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
4 002172 PRODUCT TYPE FOR RETRIEVED ATMOSPHERIC GASES
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 004006 SECOND
11 005001 LATITUDE (HIGH ACCURACY)
12 006001 LONGITUDE (HIGH ACCURACY)
13 027001 LATITUDE (HIGH ACCURACY)
14 028001 LONGITUDE (HIGH ACCURACY)
15 027001 LATITUDE (HIGH ACCURACY)
16 028001 LONGITUDE (HIGH ACCURACY)
17 027001 LATITUDE (HIGH ACCURACY)
18 028001 LONGITUDE (HIGH ACCURACY)
19 027001 LATITUDE (HIGH ACCURACY)
20 028001 LONGITUDE (HIGH ACCURACY)
21 007022 SOLAR ELEVATION
22 005043 FIELD OF VIEW NUMBER
23 020010 CLOUD COVER (TOTAL)
24 020016 PRESSURE AT TOP OF CLOUD
25 033003 QUALITY INFORMATION
26 010040 NUMBER OF RETRIEVED LAYERS
27 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
28 007004 PRESSURE
29 007004 PRESSURE
30 015020 INTEGRATED OZONE DENSITY
31 010002 HEIGHT
32 012101 TEMPERATURE/DRY BULB TEMPERATURE
33 013098 INTEGRATED WATER VAPOUR DENSITY
34 007004 PRESSURE
35 007004 PRESSURE
36 015020 INTEGRATED OZONE DENSITY
37 010002 HEIGHT
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1098 224255 TEMPERATURE/DRY BULB TEMPERATURE
1099 224255 INTEGRATED WATER VAPOUR DENSITY

STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

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| 2 | SATELLITE INSTR | .1720000000E+03 | CODE TABLE 002019 |
| 3 | IDENTIFICATION | .2540000000E+03 | CODE TABLE 001033 |
| 4 | PRODUCT TYPE FO | .4000000000E+01 | CODE TABLE 002172 |
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| 6 | MONTH | .1200000000E+02 | MONTH |
| 7 | DAY | .2700000000E+02 | DAY |
| 8 | HOUR | .5000000000E+01 | HOUR |
| 9 | MINUTE | .2000000000E+01 | MINUTE |
| 10 | SECOND | .3200000000E+02 | SECOND |
| 11 | LATITUDE (HIGH | .7265638733E+02 | DEGREE |
| 12 | LONGITUDE (HIGH | -.8671620941E+02 | DEGREE |
| 13 | LATITUDE (HIGH A | | MISSING DEGREE |
| 14 | LONGITUDE (HIGH | | MISSING DEGREE |
| 15 | LATITUDE (HIGH A | | MISSING DEGREE |
| 16 | LONGITUDE (HIGH | | MISSING DEGREE |
| 17 | LATITUDE (HIGH A | | MISSING DEGREE |
| 18 | LONGITUDE (HIGH | | MISSING DEGREE |
| 19 | LATITUDE (HIGH A | | MISSING DEGREE |
| 20 | LONGITUDE (HIGH | | MISSING DEGREE |
| 21 | SOLAR ELEVATION | | MISSING DEGREE |
| 22 | FIELD OF VIEW N | | MISSING NUMERIC |
| 23 | CLOUD COVER (TO | | MISSING % |
| 24 | PRESSURE AT TOP | | MISSING PA |
| 25 | QUALITY INFORMA | | MISSING CODE TABLE 033003 |
| 26 | NUMBER OF RETRI | .7100000000E+02 | NUMERIC |
| 27 | DELAYED DESCRIP | .7100000000E+02 | NUMERIC |
| 28 | PRESSURE | .1100000024E+01 | PA |
| 29 | PRESSURE | .1399999976E+01 | PA |
| 30 | INTEGRATED OZON | | MISSING KG/M**2 |
| 31 | HEIGHT | .7955000000E+05 | M |
| 32 | TEMPERATURE/DRY | .2215200043E+03 | K |
| 33 | INTEGRATED WATE | | MISSING KG/M**2 |
| 34 | PRESSURE | .1399999976E+01 | PA |
| 35 | PRESSURE | .1700000048E+01 | PA |
| 36 | INTEGRATED OZON | | MISSING KG/M**2 |
| 37 | HEIGHT | .7822000000E+05 | M |
| 38 | TEMPERATURE/DRY | .2230200043E+03 | K |
| 39 | INTEGRATED WATE | | MISSING KG/M**2 |
| 40 | PRESSURE | .1700000048E+01 | PA |
| 41 | PRESSURE | .2000000000E+01 | PA |
| 42 | INTEGRATED OZON | | MISSING KG/M**2 |
| 43 | HEIGHT | .7688000000E+05 | M |
| 44 | TEMPERATURE/DRY | .2243699951E+03 | K |
| 45 | INTEGRATED WATE | | MISSING KG/M**2 |
| 46 | PRESSURE | .2000000000E+01 | PA |
| 47 | PRESSURE | .2500000000E+01 | PA |
| 48 | INTEGRATED OZON | | MISSING KG/M**2 |
| 49 | HEIGHT | .7554000000E+05 | M |
| 50 | TEMPERATURE/DRY | .2257500000E+03 | K |
| 51 | INTEGRATED WATE | | MISSING KG/M**2 |
| 52 | PRESSURE | .2500000000E+01 | PA |
| 53 | PRESSURE | .3000000000E+01 | PA |
| 54 | INTEGRATED OZON | | MISSING KG/M**2 |
| 55 | HEIGHT | .7421000000E+05 | M |
| 56 | TEMPERATURE/DRY | .2274499969E+03 | K |
| 57 | INTEGRATED WATE | | MISSING KG/M**2 |
| 58 | PRESSURE | .3000000000E+01 | PA |
| 59 | PRESSURE | .3700000048E+01 | PA |
| 60 | INTEGRATED OZON | | MISSING KG/M**2 |
| 61 | HEIGHT | .7287000000E+05 | M |
| 62 | TEMPERATURE/DRY | .2296199951E+03 | K |
| 63 | INTEGRATED WATE | | MISSING KG/M**2 |
| 64 | PRESSURE | .3700000048E+01 | PA |
| 65 | PRESSURE | .4500000000E+01 | PA |
| 66 | INTEGRATED OZON | | MISSING KG/M**2 |
| 67 | HEIGHT | .7153000000E+05 | M |
| 68 | TEMPERATURE/DRY | .2322400055E+03 | K |
| 69 | INTEGRATED WATE | | MISSING KG/M**2 |
| 70 | PRESSURE | .4500000000E+01 | PA |
| 71 | PRESSURE | .5400000095E+01 | PA |
| 72 | INTEGRATED OZON | | MISSING KG/M**2 |
| 73 | HEIGHT | .7019000000E+05 | M |
| 74 | TEMPERATURE/DRY | .2352599945E+03 | K |
| 75 | INTEGRATED WATE | | MISSING KG/M**2 |
| 76 | PRESSURE | .5400000095E+01 | PA |
| 77 | PRESSURE | .6500000000E+01 | PA |
| 78 | INTEGRATED OZON | | MISSING KG/M**2 |
| 79 | HEIGHT | .6885000000E+05 | M |
| 80 | TEMPERATURE/DRY | .2385800018E+03 | K |
| 81 | INTEGRATED WATE | | MISSING KG/M**2 |
| 82 | PRESSURE | .6500000000E+01 | PA |
| 83 | PRESSURE | .7900000095E+01 | PA |
| 84 | INTEGRATED OZON | | MISSING KG/M**2 |
| 85 | HEIGHT | .6751000000E+05 | M |
| 86 | TEMPERATURE/DRY | .2420800018E+03 | K |
| 87 | INTEGRATED WATE | | MISSING KG/M**2 |


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88 PRESSURE .7900000095E+01 PA
89 PRESSURE .9399999619E+01 PA
90 INTEGRATED OZON MISSING KG/M**2
91 HEIGHT .6616000000E+05 M
92 TEMPERATURE/DRY .2456699982E+03 K
93 INTEGRATED WATE MISSING KG/M**2
94 PRESSURE .9399999619E+01 PA
95 PRESSURE .1130000019E+02 PA
96 INTEGRATED OZON MISSING KG/M**2
97 HEIGHT .6482000000E+05 M
98 TEMPERATURE/DRY .2492299957E+03 K
99 INTEGRATED WATE MISSING KG/M**2
100 PRESSURE .1130000019E+02 PA
101 PRESSURE .1350000000E+02 PA
102 INTEGRATED OZON MISSING KG/M**2
103 HEIGHT .6347000000E+05 M
104 TEMPERATURE/DRY .2526799927E+03 K
105 INTEGRATED WATE MISSING KG/M**2
106 PRESSURE .1350000000E+02 PA
107 PRESSURE .1610000038E+02 PA
108 INTEGRATED OZON MISSING KG/M**2
109 HEIGHT .6213000000E+05 M
110 TEMPERATURE/DRY .2558699951E+03 K
111 INTEGRATED WATE MISSING KG/M**2
112 PRESSURE .1610000038E+02 PA
113 PRESSURE .1920000076E+02 PA
114 INTEGRATED OZON MISSING KG/M**2
115 HEIGHT .6078000000E+05 M
116 TEMPERATURE/DRY .2586900024E+03 K
117 INTEGRATED WATE MISSING KG/M**2
118 PRESSURE .1920000076E+02 PA
119 PRESSURE .2279999924E+02 PA
120 INTEGRATED OZON MISSING KG/M**2
121 HEIGHT .5944000000E+05 M
122 TEMPERATURE/DRY .2610199890E+03 K
123 INTEGRATED WATE MISSING KG/M**2
124 PRESSURE .2279999924E+02 PA
125 PRESSURE .2710000038E+02 PA
126 INTEGRATED OZON MISSING KG/M**2
127 HEIGHT .5809000000E+05 M
128 TEMPERATURE/DRY .2628200073E+03 K
129 INTEGRATED WATE MISSING KG/M**2
130 PRESSURE .2710000038E+02 PA
131 PRESSURE .3220000076E+02 PA
132 INTEGRATED OZON MISSING KG/M**2
133 HEIGHT .5674000000E+05 M
134 TEMPERATURE/DRY .2640299988E+03 K
135 INTEGRATED WATE MISSING KG/M**2
136 PRESSURE .3220000076E+02 PA
137 PRESSURE .3820000076E+02 PA
138 INTEGRATED OZON MISSING KG/M**2
139 HEIGHT .5539000000E+05 M
140 TEMPERATURE/DRY .2646600037E+03 K
141 INTEGRATED WATE MISSING KG/M**2
142 PRESSURE .3820000076E+02 PA
143 PRESSURE .4540000153E+02 PA
144 INTEGRATED OZON MISSING KG/M**2
145 HEIGHT .5404000000E+05 M
146 TEMPERATURE/DRY .2647399902E+03 K
147 INTEGRATED WATE MISSING KG/M**2
148 PRESSURE .4540000153E+02 PA
149 PRESSURE .5390000153E+02 PA
150 INTEGRATED OZON MISSING KG/M**2
151 HEIGHT .5269000000E+05 M
152 TEMPERATURE/DRY .2644700012E+03 K
153 INTEGRATED WATE MISSING KG/M**2
154 PRESSURE .5390000153E+02 PA
155 PRESSURE .6400000000E+02 PA
156 INTEGRATED OZON MISSING KG/M**2
157 HEIGHT .5135000000E+05 M
158 TEMPERATURE/DRY .2674299927E+03 K
159 INTEGRATED WATE MISSING KG/M**2
160 PRESSURE .6400000000E+02 PA
161 PRESSURE .7600000000E+02 PA
162 INTEGRATED OZON MISSING KG/M**2
163 HEIGHT .5000000000E+05 M
164 TEMPERATURE/DRY .2688599854E+03 K
165 INTEGRATED WATE MISSING KG/M**2
166 PRESSURE .7600000000E+02 PA
167 PRESSURE .9030000305E+02 PA
168 INTEGRATED OZON MISSING KG/M**2
169 HEIGHT .4865000000E+05 M
170 TEMPERATURE/DRY .2695000000E+03 K
171 INTEGRATED WATE MISSING KG/M**2
172 PRESSURE .9030000305E+02 PA
173 PRESSURE .1073000031E+03 PA
174 INTEGRATED OZON MISSING KG/M**2
175 HEIGHT .4730000000E+05 M
176 TEMPERATURE/DRY .2674100037E+03 K
177 INTEGRATED WATE MISSING KG/M**2
178 PRESSURE .1073000031E+03 PA
179 PRESSURE .1276999969E+03 PA
180 INTEGRATED OZON MISSING KG/M**2
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| | | | |
|-----|-----------------|-----------------|---------|
| 181 | HEIGHT | .4596000000E+05 | M |
| 182 | TEMPERATURE/DRY | .2640700073E+03 | K |
| 183 | INTEGRATED WATE | MISSING | KG/M**2 |
| 184 | PRESSURE | .1276999969E+03 | PA |
| 185 | PRESSURE | .1523000031E+03 | PA |
| 186 | INTEGRATED OZON | MISSING | KG/M**2 |
| 187 | HEIGHT | .4462000000E+05 | M |
| 188 | TEMPERATURE/DRY | .2607099915E+03 | K |
| 189 | INTEGRATED WATE | MISSING | KG/M**2 |
| 190 | PRESSURE | .1523000031E+03 | PA |
| 191 | PRESSURE | .1821999969E+03 | PA |
| 192 | INTEGRATED OZON | MISSING | KG/M**2 |
| 193 | HEIGHT | .4328000000E+05 | M |
| 194 | TEMPERATURE/DRY | .2574400024E+03 | K |
| 195 | INTEGRATED WATE | MISSING | KG/M**2 |
| 196 | PRESSURE | .1821999969E+03 | PA |
| 197 | PRESSURE | .2181999969E+03 | PA |
| 198 | INTEGRATED OZON | MISSING | KG/M**2 |
| 199 | HEIGHT | .4194000000E+05 | M |
| 200 | TEMPERATURE/DRY | .2538099976E+03 | K |
| 201 | INTEGRATED WATE | MISSING | KG/M**2 |
| 202 | PRESSURE | .2181999969E+03 | PA |
| 203 | PRESSURE | .2617000122E+03 | PA |
| 204 | INTEGRATED OZON | MISSING | KG/M**2 |
| 205 | HEIGHT | .4061000000E+05 | M |
| 206 | TEMPERATURE/DRY | .2503099976E+03 | K |
| 207 | INTEGRATED WATE | MISSING | KG/M**2 |
| 208 | PRESSURE | .2617000122E+03 | PA |
| 209 | PRESSURE | .3137999878E+03 | PA |
| 210 | INTEGRATED OZON | MISSING | KG/M**2 |
| 211 | HEIGHT | .3928000000E+05 | M |
| 212 | TEMPERATURE/DRY | .2494400024E+03 | K |
| 213 | INTEGRATED WATE | MISSING | KG/M**2 |
| 214 | PRESSURE | .3137999878E+03 | PA |
| 215 | PRESSURE | .3762000122E+03 | PA |
| 216 | INTEGRATED OZON | MISSING | KG/M**2 |
| 217 | HEIGHT | .3796000000E+05 | M |
| 218 | TEMPERATURE/DRY | .2472200012E+03 | K |
| 219 | INTEGRATED WATE | MISSING | KG/M**2 |
| 220 | PRESSURE | .3762000122E+03 | PA |
| 221 | PRESSURE | .4511000061E+03 | PA |
| 222 | INTEGRATED OZON | MISSING | KG/M**2 |
| 223 | HEIGHT | .3665000000E+05 | M |
| 224 | TEMPERATURE/DRY | .2415399933E+03 | K |
| 225 | INTEGRATED WATE | MISSING | KG/M**2 |
| 226 | PRESSURE | .4511000061E+03 | PA |
| 227 | PRESSURE | .5407000122E+03 | PA |
| 228 | INTEGRATED OZON | MISSING | KG/M**2 |
| 229 | HEIGHT | .3536000000E+05 | M |
| 230 | TEMPERATURE/DRY | .2369400024E+03 | K |
| 231 | INTEGRATED WATE | MISSING | KG/M**2 |
| 232 | PRESSURE | .5407000122E+03 | PA |
| 233 | PRESSURE | .6480000000E+03 | PA |
| 234 | INTEGRATED OZON | MISSING | KG/M**2 |
| 235 | HEIGHT | .3408000000E+05 | M |
| 236 | TEMPERATURE/DRY | .2334299927E+03 | K |
| 237 | INTEGRATED WATE | MISSING | KG/M**2 |
| 238 | PRESSURE | .6480000000E+03 | PA |
| 239 | PRESSURE | .7760000000E+03 | PA |
| 240 | INTEGRATED OZON | MISSING | KG/M**2 |
| 241 | HEIGHT | .3283000000E+05 | M |
| 242 | TEMPERATURE/DRY | .2285000000E+03 | K |
| 243 | INTEGRATED WATE | MISSING | KG/M**2 |
| 244 | PRESSURE | .7760000000E+03 | PA |
| 245 | PRESSURE | .9297999878E+03 | PA |
| 246 | INTEGRATED OZON | MISSING | KG/M**2 |
| 247 | HEIGHT | .3161000000E+05 | M |
| 248 | TEMPERATURE/DRY | .2224199982E+03 | K |
| 249 | INTEGRATED WATE | MISSING | KG/M**2 |
| 250 | PRESSURE | .9297999878E+03 | PA |
| 251 | PRESSURE | .1115099976E+04 | PA |
| 252 | INTEGRATED OZON | MISSING | KG/M**2 |
| 253 | HEIGHT | .3042000000E+05 | M |
| 254 | TEMPERATURE/DRY | .2181199951E+03 | K |
| 255 | INTEGRATED WATE | MISSING | KG/M**2 |
| 256 | PRESSURE | .1115099976E+04 | PA |
| 257 | PRESSURE | .1335900024E+04 | PA |
| 258 | INTEGRATED OZON | MISSING | KG/M**2 |
| 259 | HEIGHT | .2923000000E+05 | M |
| 260 | TEMPERATURE/DRY | .2162799988E+03 | K |
| 261 | INTEGRATED WATE | MISSING | KG/M**2 |
| 262 | PRESSURE | .1335900024E+04 | PA |
| 263 | PRESSURE | .1594400024E+04 | PA |
| 264 | INTEGRATED OZON | MISSING | KG/M**2 |
| 265 | HEIGHT | .2808000000E+05 | M |
| 266 | TEMPERATURE/DRY | .2159299927E+03 | K |
| 267 | INTEGRATED WATE | MISSING | KG/M**2 |
| 268 | PRESSURE | .1594400024E+04 | PA |
| 269 | PRESSURE | .1891800049E+04 | PA |
| 270 | INTEGRATED OZON | MISSING | KG/M**2 |
| 271 | HEIGHT | .2695000000E+05 | M |
| 272 | TEMPERATURE/DRY | .2161900024E+03 | K |
| 273 | INTEGRATED WATE | MISSING | KG/M**2 |



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|-----|-----------------|-----------------|---------|
| 274 | PRESSURE | .1891800049E+04 | PA |
| 275 | PRESSURE | .2229699951E+04 | PA |
| 276 | INTEGRATED OZON | MISSING | KG/M**2 |
| 277 | HEIGHT | .2588000000E+05 | M |
| 278 | TEMPERATURE/DRY | .2163300018E+03 | K |
| 279 | INTEGRATED WATE | MISSING | KG/M**2 |
| 280 | PRESSURE | .2229699951E+04 | PA |
| 281 | PRESSURE | .2612000000E+04 | PA |
| 282 | INTEGRATED OZON | MISSING | KG/M**2 |
| 283 | HEIGHT | .2484000000E+05 | M |
| 284 | TEMPERATURE/DRY | .2160599976E+03 | K |
| 285 | INTEGRATED WATE | MISSING | KG/M**2 |
| 286 | PRESSURE | .2612000000E+04 | PA |
| 287 | PRESSURE | .3044899902E+04 | PA |
| 288 | INTEGRATED OZON | MISSING | KG/M**2 |
| 289 | HEIGHT | .2385000000E+05 | M |
| 290 | TEMPERATURE/DRY | .2158300018E+03 | K |
| 291 | INTEGRATED WATE | MISSING | KG/M**2 |
| 292 | PRESSURE | .3044899902E+04 | PA |
| 293 | PRESSURE | .3530899902E+04 | PA |
| 294 | INTEGRATED OZON | MISSING | KG/M**2 |
| 295 | HEIGHT | .2288000000E+05 | M |
| 296 | TEMPERATURE/DRY | .2160399933E+03 | K |
| 297 | INTEGRATED WATE | MISSING | KG/M**2 |
| 298 | PRESSURE | .3530899902E+04 | PA |
| 299 | PRESSURE | .4068000000E+04 | PA |
| 300 | INTEGRATED OZON | .4120100057E-03 | KG/M**2 |
| 301 | HEIGHT | .2195000000E+05 | M |
| 302 | TEMPERATURE/DRY | .2169100037E+03 | K |
| 303 | INTEGRATED WATE | .3210000068E-04 | KG/M**2 |
| 304 | PRESSURE | .4068000000E+04 | PA |
| 305 | PRESSURE | .4651299805E+04 | PA |
| 306 | INTEGRATED OZON | .3407199983E-03 | KG/M**2 |
| 307 | HEIGHT | .2106000000E+05 | M |
| 308 | TEMPERATURE/DRY | .2175800018E+03 | K |
| 309 | INTEGRATED WATE | .2323999979E-04 | KG/M**2 |
| 310 | PRESSURE | .4651299805E+04 | PA |
| 311 | PRESSURE | .5276100098E+04 | PA |
| 312 | INTEGRATED OZON | .2968799963E-03 | KG/M**2 |
| 313 | HEIGHT | .2023000000E+05 | M |
| 314 | TEMPERATURE/DRY | .2182599945E+03 | K |
| 315 | INTEGRATED WATE | .7021000056E-04 | KG/M**2 |
| 316 | PRESSURE | .5276100098E+04 | PA |
| 317 | PRESSURE | .5942000000E+04 | PA |
| 318 | INTEGRATED OZON | .2777499903E-03 | KG/M**2 |
| 319 | HEIGHT | .1944000000E+05 | M |
| 320 | TEMPERATURE/DRY | .2185800018E+03 | K |
| 321 | INTEGRATED WATE | .6561999908E-04 | KG/M**2 |
| 322 | PRESSURE | .5942000000E+04 | PA |
| 323 | PRESSURE | .6652799805E+04 | PA |
| 324 | INTEGRATED OZON | .2343999950E-03 | KG/M**2 |
| 325 | HEIGHT | .1869000000E+05 | M |
| 326 | TEMPERATURE/DRY | .2188699951E+03 | K |
| 327 | INTEGRATED WATE | .2144999962E-04 | KG/M**2 |
| 328 | PRESSURE | .6652799805E+04 | PA |
| 329 | PRESSURE | .7411600098E+04 | PA |
| 330 | INTEGRATED OZON | .1977399952E-03 | KG/M**2 |
| 331 | HEIGHT | .1798000000E+05 | M |
| 332 | TEMPERATURE/DRY | .2191600037E+03 | K |
| 333 | INTEGRATED WATE | MISSING | KG/M**2 |
| 334 | PRESSURE | .7411600098E+04 | PA |
| 335 | PRESSURE | .8217400391E+04 | PA |
| 336 | INTEGRATED OZON | .2258500026E-03 | KG/M**2 |
| 337 | HEIGHT | .1730000000E+05 | M |
| 338 | TEMPERATURE/DRY | .2196399994E+03 | K |
| 339 | INTEGRATED WATE | .1460000058E-03 | KG/M**2 |
| 340 | PRESSURE | .8217400391E+04 | PA |
| 341 | PRESSURE | .9065599609E+04 | PA |
| 342 | INTEGRATED OZON | .2129299974E-03 | KG/M**2 |
| 343 | HEIGHT | .1664000000E+05 | M |
| 344 | TEMPERATURE/DRY | .2201199951E+03 | K |
| 345 | INTEGRATED WATE | .1297699928E-03 | KG/M**2 |
| 346 | PRESSURE | .9065599609E+04 | PA |
| 347 | PRESSURE | .9951500000E+04 | PA |
| 348 | INTEGRATED OZON | .1972600003E-03 | KG/M**2 |
| 349 | HEIGHT | .1602000000E+05 | M |
| 350 | TEMPERATURE/DRY | .2206399994E+03 | K |
| 351 | INTEGRATED WATE | .4606999937E-04 | KG/M**2 |
| 352 | PRESSURE | .9951500000E+04 | PA |
| 353 | PRESSURE | .1087020020E+05 | PA |
| 354 | INTEGRATED OZON | .1398500026E-03 | KG/M**2 |
| 355 | HEIGHT | .1543000000E+05 | M |
| 356 | TEMPERATURE/DRY | .2211300049E+03 | K |
| 357 | INTEGRATED WATE | .1908099948E-03 | KG/M**2 |
| 358 | PRESSURE | .1087020020E+05 | PA |
| 359 | PRESSURE | .1181670020E+05 | PA |
| 360 | INTEGRATED OZON | .2706199884E-03 | KG/M**2 |
| 361 | HEIGHT | .1487000000E+05 | M |
| 362 | TEMPERATURE/DRY | .2216799927E+03 | K |
| 363 | INTEGRATED WATE | .1894900051E-03 | KG/M**2 |
| 364 | PRESSURE | .1181670020E+05 | PA |
| 365 | PRESSURE | .1278629980E+05 | PA |
| 366 | INTEGRATED OZON | .1170699979E-03 | KG/M**2 |

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367 HEIGHT .1434000000E+05 M
368 TEMPERATURE/DRY .2220800018E+03 K
369 INTEGRATED WATE .7511000149E-04 KG/M**2
370 PRESSURE .1278629980E+05 PA
371 PRESSURE .1377440039E+05 PA
372 INTEGRATED OZON .1114800034E-03 KG/M**2
373 HEIGHT .1384000000E+05 M
374 TEMPERATURE/DRY .2224600067E+03 K
375 INTEGRATED WATE .1102099995E-03 KG/M**2
376 PRESSURE .1377440039E+05 PA
377 PRESSURE .1477709961E+05 PA
378 INTEGRATED OZON .9293999756E-04 KG/M**2
379 HEIGHT .1337000000E+05 M
380 TEMPERATURE/DRY .2226999969E+03 K
381 INTEGRATED WATE .1887399994E-03 KG/M**2
382 PRESSURE .1477709961E+05 PA
383 PRESSURE .1579059961E+05 PA
384 INTEGRATED OZON .2645300119E-03 KG/M**2
385 HEIGHT .1292000000E+05 M
386 TEMPERATURE/DRY .2229499969E+03 K
387 INTEGRATED WATE .2267300006E-03 KG/M**2
388 PRESSURE .1579059961E+05 PA
389 PRESSURE .1681190039E+05 PA
390 INTEGRATED OZON .7267000183E-04 KG/M**2
391 HEIGHT .1250000000E+05 M
392 TEMPERATURE/DRY .2230399933E+03 K
393 INTEGRATED WATE MISSING KG/M**2
394 PRESSURE .1681190039E+05 PA
395 PRESSURE .1783800000E+05 PA
396 INTEGRATED OZON .1035800015E-03 KG/M**2
397 HEIGHT .1210000000E+05 M
398 TEMPERATURE/DRY .2230599976E+03 K
399 INTEGRATED WATE .4313699901E-03 KG/M**2
400 PRESSURE .1783800000E+05 PA
401 PRESSURE .1886640039E+05 PA
402 INTEGRATED OZON .5882999903E-04 KG/M**2
403 HEIGHT .1172000000E+05 M
404 TEMPERATURE/DRY .2230099945E+03 K
405 INTEGRATED WATE .2203899930E-03 KG/M**2
406 PRESSURE .1886640039E+05 PA
407 PRESSURE .1989419922E+05 PA
408 INTEGRATED OZON MISSING KG/M**2
409 HEIGHT .1137000000E+05 M
410 TEMPERATURE/DRY .2228800049E+03 K
411 INTEGRATED WATE .3275499912E-03 KG/M**2
412 PRESSURE .1989419922E+05 PA
413 PRESSURE .2091709961E+05 PA
414 INTEGRATED OZON .8006000280E-04 KG/M**2
415 HEIGHT .1103000000E+05 M
416 TEMPERATURE/DRY .2226600037E+03 K
417 INTEGRATED WATE .9190000128E-04 KG/M**2
418 PRESSURE .2091709961E+05 PA
419 PRESSURE .2192940039E+05 PA
420 INTEGRATED OZON .6771000335E-04 KG/M**2
421 HEIGHT .1071000000E+05 M
422 TEMPERATURE/DRY .2223800049E+03 K
423 INTEGRATED WATE .1473799930E-03 KG/M**2
424 PRESSURE .2192940039E+05 PA
425 PRESSURE .2292630078E+05 PA
426 INTEGRATED OZON MISSING KG/M**2
427 HEIGHT .1041000000E+05 M
428 TEMPERATURE/DRY .2220099945E+03 K
429 INTEGRATED WATE MISSING KG/M**2
430 PRESSURE .2292630078E+05 PA
431 PRESSURE .2390500000E+05 PA
432 INTEGRATED OZON .5465999857E-04 KG/M**2
433 HEIGHT .1013000000E+05 M
434 TEMPERATURE/DRY .2215500031E+03 K
435 INTEGRATED WATE .1764999979E-04 KG/M**2
436 PRESSURE .2390500000E+05 PA
437 PRESSURE .2486459961E+05 PA
438 INTEGRATED OZON MISSING KG/M**2
439 HEIGHT .9870000000E+04 M
440 TEMPERATURE/DRY .2210299988E+03 K
441 INTEGRATED WATE MISSING KG/M**2
442 PRESSURE .2486459961E+05 PA
443 PRESSURE .2581900000E+05 PA
444 INTEGRATED OZON MISSING KG/M**2
445 HEIGHT .9620000000E+04 M
446 TEMPERATURE/DRY .2204299927E+03 K
447 INTEGRATED WATE MISSING KG/M**2
448 PRESSURE .2581900000E+05 PA
449 PRESSURE .2629830078E+05 PA
450 INTEGRATED OZON .7990000086E-05 KG/M**2
451 HEIGHT .9380000000E+04 M
452 TEMPERATURE/DRY .2197899933E+03 K
453 INTEGRATED WATE .1031599968E-03 KG/M**2
454 FIRST ORDER STA .0000000000E+00
455 BACKWARD REFERE .0000000000E+00
456 EXTENDED DELAYE .4260000000E+03 NUMERIC
457 DATA PRESENT IN MISSING NUMERIC
458 DATA PRESENT IN MISSING NUMERIC
459 DATA PRESENT IN .0000000000E+00 NUMERIC
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```

832 DATA PRESENT IN          MISSING NUMERIC
833 DATA PRESENT IN          .0000000000E+00 NUMERIC
834 DATA PRESENT IN          .0000000000E+00 NUMERIC
835 DATA PRESENT IN          MISSING NUMERIC
836 DATA PRESENT IN          MISSING NUMERIC
837 DATA PRESENT IN          .0000000000E+00 NUMERIC
838 DATA PRESENT IN          MISSING NUMERIC
839 DATA PRESENT IN          .0000000000E+00 NUMERIC
840 DATA PRESENT IN          .0000000000E+00 NUMERIC
841 DATA PRESENT IN          MISSING NUMERIC
842 DATA PRESENT IN          MISSING NUMERIC
843 DATA PRESENT IN          .0000000000E+00 NUMERIC
844 DATA PRESENT IN          MISSING NUMERIC
845 DATA PRESENT IN          .0000000000E+00 NUMERIC
846 DATA PRESENT IN          .0000000000E+00 NUMERIC
847 DATA PRESENT IN          MISSING NUMERIC
848 DATA PRESENT IN          MISSING NUMERIC
849 DATA PRESENT IN          .0000000000E+00 NUMERIC
850 DATA PRESENT IN          MISSING NUMERIC
851 DATA PRESENT IN          .0000000000E+00 NUMERIC
852 DATA PRESENT IN          .0000000000E+00 NUMERIC
853 DATA PRESENT IN          MISSING NUMERIC
854 DATA PRESENT IN          MISSING NUMERIC
855 DATA PRESENT IN          .0000000000E+00 NUMERIC
856 DATA PRESENT IN          MISSING NUMERIC
857 DATA PRESENT IN          .0000000000E+00 NUMERIC
858 DATA PRESENT IN          .0000000000E+00 NUMERIC
859 DATA PRESENT IN          MISSING NUMERIC
860 DATA PRESENT IN          MISSING NUMERIC
861 DATA PRESENT IN          .0000000000E+00 NUMERIC
862 DATA PRESENT IN          MISSING NUMERIC
863 DATA PRESENT IN          .0000000000E+00 NUMERIC
864 DATA PRESENT IN          .0000000000E+00 NUMERIC
865 DATA PRESENT IN          MISSING NUMERIC
866 DATA PRESENT IN          MISSING NUMERIC
867 DATA PRESENT IN          .0000000000E+00 NUMERIC
868 DATA PRESENT IN          MISSING NUMERIC
869 DATA PRESENT IN          .0000000000E+00 NUMERIC
870 DATA PRESENT IN          .0000000000E+00 NUMERIC
871 DATA PRESENT IN          MISSING NUMERIC
872 DATA PRESENT IN          MISSING NUMERIC
873 DATA PRESENT IN          .0000000000E+00 NUMERIC
874 DATA PRESENT IN          MISSING NUMERIC
875 DATA PRESENT IN          .0000000000E+00 NUMERIC
876 DATA PRESENT IN          .0000000000E+00 NUMERIC
877 DATA PRESENT IN          MISSING NUMERIC
878 DATA PRESENT IN          MISSING NUMERIC
879 DATA PRESENT IN          .0000000000E+00 NUMERIC
880 DATA PRESENT IN          MISSING NUMERIC
881 DATA PRESENT IN          .0000000000E+00 NUMERIC
882 DATA PRESENT IN          .0000000000E+00 NUMERIC
883 IDENTIFICATION            .9800000000E+02 CODE TABLE 001031
884 GENERATING APPL           .1000000000E+01 CODE TABLE 001032
885 FIRST ORDER STA           .9000000000E+01 CODE TABLE 008023
886 EXTENDED DELAYE          .2130000000E+03 NUMERIC
887 INTEGRATED OZON           MISSING KG/M**2
888 TEMPERATURE/DRY          .33419999817E+02 K
889 INTEGRATED WATE           MISSING KG/M**2
890 INTEGRATED OZON           MISSING KG/M**2
891 TEMPERATURE/DRY          .33009999832E+02 K
892 INTEGRATED WATE           MISSING KG/M**2
893 INTEGRATED OZON           MISSING KG/M**2
894 TEMPERATURE/DRY          .3256000137E+02 K
895 INTEGRATED WATE           MISSING KG/M**2
896 INTEGRATED OZON           MISSING KG/M**2
897 TEMPERATURE/DRY          .3231000137E+02 K
898 INTEGRATED WATE           MISSING KG/M**2
899 INTEGRATED OZON           MISSING KG/M**2
900 TEMPERATURE/DRY          .31829999992E+02 K
901 INTEGRATED WATE           MISSING KG/M**2
902 INTEGRATED OZON           MISSING KG/M**2
903 TEMPERATURE/DRY          .31389999939E+02 K
904 INTEGRATED WATE           MISSING KG/M**2
905 INTEGRATED OZON           MISSING KG/M**2
906 TEMPERATURE/DRY          .31229999954E+02 K
907 INTEGRATED WATE           MISSING KG/M**2
908 INTEGRATED OZON           MISSING KG/M**2
909 TEMPERATURE/DRY          .30889999939E+02 K
910 INTEGRATED WATE           MISSING KG/M**2
911 INTEGRATED OZON           MISSING KG/M**2
912 TEMPERATURE/DRY          .30579999992E+02 K
913 INTEGRATED WATE           MISSING KG/M**2
914 INTEGRATED OZON           MISSING KG/M**2
915 TEMPERATURE/DRY          .3054000092E+02 K
916 INTEGRATED WATE           MISSING KG/M**2
917 INTEGRATED OZON           MISSING KG/M**2
918 TEMPERATURE/DRY          .3026000023E+02 K
919 INTEGRATED WATE           MISSING KG/M**2
920 INTEGRATED OZON           MISSING KG/M**2
921 TEMPERATURE/DRY          .29969999931E+02 K
922 INTEGRATED WATE           MISSING KG/M**2
923 INTEGRATED OZON           MISSING KG/M**2
924 TEMPERATURE/DRY          .29909999985E+02 K

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| | | | |
|------|-----------------|-----------------|---------|
| 925 | INTEGRATED WATE | MISSING | KG/M**2 |
| 926 | INTEGRATED OZON | MISSING | KG/M**2 |
| 927 | TEMPERATURE/DRY | .2955999947E+02 | K |
| 928 | INTEGRATED WATE | MISSING | KG/M**2 |
| 929 | INTEGRATED OZON | MISSING | KG/M**2 |
| 930 | TEMPERATURE/DRY | .2917000008E+02 | K |
| 931 | INTEGRATED WATE | MISSING | KG/M**2 |
| 932 | INTEGRATED OZON | MISSING | KG/M**2 |
| 933 | TEMPERATURE/DRY | .2896999931E+02 | K |
| 934 | INTEGRATED WATE | MISSING | KG/M**2 |
| 935 | INTEGRATED OZON | MISSING | KG/M**2 |
| 936 | TEMPERATURE/DRY | .2845000076E+02 | K |
| 937 | INTEGRATED WATE | MISSING | KG/M**2 |
| 938 | INTEGRATED OZON | MISSING | KG/M**2 |
| 939 | TEMPERATURE/DRY | .2786000061E+02 | K |
| 940 | INTEGRATED WATE | MISSING | KG/M**2 |
| 941 | INTEGRATED OZON | MISSING | KG/M**2 |
| 942 | TEMPERATURE/DRY | .2720000076E+02 | K |
| 943 | INTEGRATED WATE | MISSING | KG/M**2 |
| 944 | INTEGRATED OZON | MISSING | KG/M**2 |
| 945 | TEMPERATURE/DRY | .2672999954E+02 | K |
| 946 | INTEGRATED WATE | MISSING | KG/M**2 |
| 947 | INTEGRATED OZON | MISSING | KG/M**2 |
| 948 | TEMPERATURE/DRY | .2514999962E+02 | K |
| 949 | INTEGRATED WATE | MISSING | KG/M**2 |
| 950 | INTEGRATED OZON | MISSING | KG/M**2 |
| 951 | TEMPERATURE/DRY | .2327000046E+02 | K |
| 952 | INTEGRATED WATE | MISSING | KG/M**2 |
| 953 | INTEGRATED OZON | MISSING | KG/M**2 |
| 954 | TEMPERATURE/DRY | .2193000031E+02 | K |
| 955 | INTEGRATED WATE | MISSING | KG/M**2 |
| 956 | INTEGRATED OZON | MISSING | KG/M**2 |
| 957 | TEMPERATURE/DRY | .2043000031E+02 | K |
| 958 | INTEGRATED WATE | MISSING | KG/M**2 |
| 959 | INTEGRATED OZON | MISSING | KG/M**2 |
| 960 | TEMPERATURE/DRY | .1860000038E+02 | K |
| 961 | INTEGRATED WATE | MISSING | KG/M**2 |
| 962 | INTEGRATED OZON | MISSING | KG/M**2 |
| 963 | TEMPERATURE/DRY | .1657999992E+02 | K |
| 964 | INTEGRATED WATE | MISSING | KG/M**2 |
| 965 | INTEGRATED OZON | MISSING | KG/M**2 |
| 966 | TEMPERATURE/DRY | .1478999996E+02 | K |
| 967 | INTEGRATED WATE | MISSING | KG/M**2 |
| 968 | INTEGRATED OZON | MISSING | KG/M**2 |
| 969 | TEMPERATURE/DRY | .1330000019E+02 | K |
| 970 | INTEGRATED WATE | MISSING | KG/M**2 |
| 971 | INTEGRATED OZON | MISSING | KG/M**2 |
| 972 | TEMPERATURE/DRY | .1313000011E+02 | K |
| 973 | INTEGRATED WATE | MISSING | KG/M**2 |
| 974 | INTEGRATED OZON | MISSING | KG/M**2 |
| 975 | TEMPERATURE/DRY | .1293999958E+02 | K |
| 976 | INTEGRATED WATE | MISSING | KG/M**2 |
| 977 | INTEGRATED OZON | MISSING | KG/M**2 |
| 978 | TEMPERATURE/DRY | .1277000046E+02 | K |
| 979 | INTEGRATED WATE | MISSING | KG/M**2 |
| 980 | INTEGRATED OZON | MISSING | KG/M**2 |
| 981 | TEMPERATURE/DRY | .1272000027E+02 | K |
| 982 | INTEGRATED WATE | MISSING | KG/M**2 |
| 983 | INTEGRATED OZON | MISSING | KG/M**2 |
| 984 | TEMPERATURE/DRY | .1260999966E+02 | K |
| 985 | INTEGRATED WATE | MISSING | KG/M**2 |
| 986 | INTEGRATED OZON | MISSING | KG/M**2 |
| 987 | TEMPERATURE/DRY | .1231999969E+02 | K |
| 988 | INTEGRATED WATE | MISSING | KG/M**2 |
| 989 | INTEGRATED OZON | MISSING | KG/M**2 |
| 990 | TEMPERATURE/DRY | .1185000038E+02 | K |
| 991 | INTEGRATED WATE | MISSING | KG/M**2 |
| 992 | INTEGRATED OZON | MISSING | KG/M**2 |
| 993 | TEMPERATURE/DRY | .1119999981E+02 | K |
| 994 | INTEGRATED WATE | MISSING | KG/M**2 |
| 995 | INTEGRATED OZON | MISSING | KG/M**2 |
| 996 | TEMPERATURE/DRY | .1027999973E+02 | K |
| 997 | INTEGRATED WATE | MISSING | KG/M**2 |
| 998 | INTEGRATED OZON | MISSING | KG/M**2 |
| 999 | TEMPERATURE/DRY | .9340000153E+01 | K |
| 1000 | INTEGRATED WATE | MISSING | KG/M**2 |
| 1001 | INTEGRATED OZON | MISSING | KG/M**2 |
| 1002 | TEMPERATURE/DRY | .8510000229E+01 | K |
| 1003 | INTEGRATED WATE | MISSING | KG/M**2 |
| 1004 | INTEGRATED OZON | MISSING | KG/M**2 |
| 1005 | TEMPERATURE/DRY | .7789999962E+01 | K |
| 1006 | INTEGRATED WATE | MISSING | KG/M**2 |
| 1007 | INTEGRATED OZON | MISSING | KG/M**2 |
| 1008 | TEMPERATURE/DRY | .7130000114E+01 | K |
| 1009 | INTEGRATED WATE | MISSING | KG/M**2 |
| 1010 | INTEGRATED OZON | MISSING | KG/M**2 |
| 1011 | TEMPERATURE/DRY | .6489999771E+01 | K |
| 1012 | INTEGRATED WATE | MISSING | KG/M**2 |
| 1013 | INTEGRATED OZON | MISSING | KG/M**2 |
| 1014 | TEMPERATURE/DRY | .5840000153E+01 | K |
| 1015 | INTEGRATED WATE | MISSING | KG/M**2 |
| 1016 | INTEGRATED OZON | MISSING | KG/M**2 |
| 1017 | TEMPERATURE/DRY | .5400000095E+01 | K |

```
1018 INTEGRATED WATE          MISSING KG/M**2
1019 INTEGRATED OZON          MISSING KG/M**2
1020 TEMPERATURE/DRY          .5400000095E+01 K
1021 INTEGRATED WATE          MISSING KG/M**2
1022 INTEGRATED OZON          MISSING KG/M**2
1023 TEMPERATURE/DRY          .5400000095E+01 K
1024 INTEGRATED WATE          MISSING KG/M**2
1025 INTEGRATED OZON          .3180179978E-02 KG/M**2
1026 TEMPERATURE/DRY          .5420000076E+01 K
1027 INTEGRATED WATE          MISSING KG/M**2
1028 INTEGRATED OZON          .1553919981E-02 KG/M**2
1029 TEMPERATURE/DRY          .5440000057E+01 K
1030 INTEGRATED WATE          MISSING KG/M**2
1031 INTEGRATED OZON          .1978039974E-02 KG/M**2
1032 TEMPERATURE/DRY          .5460000038E+01 K
1033 INTEGRATED WATE          MISSING KG/M**2
1034 INTEGRATED OZON          .1591310021E-02 KG/M**2
1035 TEMPERATURE/DRY          .5460000038E+01 K
1036 INTEGRATED WATE          MISSING KG/M**2
1037 INTEGRATED OZON          .1524789957E-02 KG/M**2
1038 TEMPERATURE/DRY          .5469999790E+01 K
1039 INTEGRATED WATE          MISSING KG/M**2
1040 INTEGRATED OZON          .1460039988E-02 KG/M**2
1041 TEMPERATURE/DRY          .5480000019E+01 K
1042 INTEGRATED WATE          MISSING KG/M**2
1043 INTEGRATED OZON          .2266410040E-02 KG/M**2
1044 TEMPERATURE/DRY          .5489999771E+01 K
1045 INTEGRATED WATE          .7480675727E-01 KG/M**2
1046 INTEGRATED OZON          .2337200101E-02 KG/M**2
1047 TEMPERATURE/DRY          .5500000000E+01 K
1048 INTEGRATED WATE          .7347303629E-01 KG/M**2
1049 INTEGRATED OZON          .2466249978E-02 KG/M**2
1050 TEMPERATURE/DRY          .5519999981E+01 K
1051 INTEGRATED WATE          MISSING KG/M**2
1052 INTEGRATED OZON          .1843429985E-02 KG/M**2
1053 TEMPERATURE/DRY          .5530000210E+01 K
1054 INTEGRATED WATE          .4974786937E-01 KG/M**2
1055 INTEGRATED OZON          .4175830167E-02 KG/M**2
1056 TEMPERATURE/DRY          .5539999962E+01 K
1057 INTEGRATED WATE          .9289442003E-01 KG/M**2
1058 INTEGRATED OZON          .3276010044E-02 KG/M**2
1059 TEMPERATURE/DRY          .5550000191E+01 K
1060 INTEGRATED WATE          MISSING KG/M**2
1061 INTEGRATED OZON          .4932620097E-02 KG/M**2
1062 TEMPERATURE/DRY          .5559999943E+01 K
1063 INTEGRATED WATE          MISSING KG/M**2
1064 INTEGRATED OZON          .2227110090E-02 KG/M**2
1065 TEMPERATURE/DRY          .5570000172E+01 K
1066 INTEGRATED WATE          .4087939113E-01 KG/M**2
1067 INTEGRATED OZON          .1044712961E-01 KG/M**2
1068 TEMPERATURE/DRY          MISSING K
1069 INTEGRATED WATE          .1673825383E+00 KG/M**2
1070 INTEGRATED OZON          .8825589903E-02 KG/M**2
1071 TEMPERATURE/DRY          MISSING K
1072 INTEGRATED WATE          MISSING KG/M**2
1073 INTEGRATED OZON          .5331899971E-02 KG/M**2
1074 TEMPERATURE/DRY          MISSING K
1075 INTEGRATED WATE          .8292321116E-01 KG/M**2
1076 INTEGRATED OZON          .6067709997E-02 KG/M**2
1077 TEMPERATURE/DRY          MISSING K
1078 INTEGRATED WATE          .9964945912E-01 KG/M**2
1079 INTEGRATED OZON          MISSING KG/M**2
1080 TEMPERATURE/DRY          MISSING K
1081 INTEGRATED WATE          .2204777598E+00 KG/M**2
1082 INTEGRATED OZON          .7704270072E-02 KG/M**2
1083 TEMPERATURE/DRY          MISSING K
1084 INTEGRATED WATE          .1009002700E+00 KG/M**2
1085 INTEGRATED OZON          .5826780107E-02 KG/M**2
1086 TEMPERATURE/DRY          MISSING K
1087 INTEGRATED WATE          .7991050184E-01 KG/M**2
1088 INTEGRATED OZON          MISSING KG/M**2
1089 TEMPERATURE/DRY          MISSING K
1090 INTEGRATED WATE          MISSING KG/M**2
1091 INTEGRATED OZON          .4233390093E-02 KG/M**2
1092 TEMPERATURE/DRY          MISSING K
1093 INTEGRATED WATE          MISSING KG/M**2
1094 INTEGRATED OZON          MISSING KG/M**2
1095 TEMPERATURE/DRY          MISSING K
1096 INTEGRATED WATE          MISSING KG/M**2
1097 INTEGRATED OZON          MISSING KG/M**2
1098 TEMPERATURE/DRY          MISSING K
1099 INTEGRATED WATE          MISSING KG/M**2
```

3.58 Envisat MIPAS data

RDB type 12, subtype 210

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
  BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 714
BUFR EDITION NUMBER              3
1
  BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 3
BUFR MESSAGE SUBTYPE             206
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              3
MONTH                             12
DAY                               30
HOUR                              5
MINUTE                            8
VERSION NUMBER OF MASTER TABLE  11
BUFR MASTER TABLE               0
1
  BUFR SECTION 2
LENGTH OF SECTION 2              52
REPORT DATA BASE KEY
RDB DATA TYPE                   2
RDB DATA SUBTYPE                206
YEAR                             2003
MONTH                             12
DAY                               30
HOUR                              5
MINUTE                            8
SECOND                           47
LATITUDE 1                       70.55
LONGITUDE 1                     -105.18
LATITUDE 2                       70.55
LONGITUDE 2                     -105.18
NUMBER OF OBSERVATIONS            1
IDENTIFIER                       60
TOTAL BUFR MESSAGE LENGTH        714
DAY (RDB INSERTION)              30
HOUR (RDB INSERTION)             9
MINUTE (RDB INSERTION)           42
SECOND (RDB INSERTION)           31
DAY (MDB ARRIVAL)                30
HOUR (MDB ARRIVAL)               9
MINUTE (MDB ARRIVAL)             39
SECOND (MDB ARRIVAL)             55
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
PART OF MESSAGE                  0
CORRECTION NUMBER                0
QUALITY CONTROL % CONF           70
1
  BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      32
RESERVED                          0
NUMBER OF DATA SUBSETS           1
FLAG (DATA TYPE/DATA COMPRESSION) 192
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DATA DESCRIPTORS (UNEXPANDED)

```
1 310030
2 224000
3 236000
4 101000
5 031002
6 031031
7 001031
8 001032
9 008023
10 101000
11 031002
12 224255
```

DATA DESCRIPTORS (EXPANDED)

```
1 001007 SATELLITE IDENTIFIER
2 002019 SATELLITE INSTRUMENTS
3 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
4 002172 PRODUCT TYPE FOR RETRIEVED ATMOSPHERIC GASES
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 004006 SECOND
11 005001 LATITUDE (HIGH ACCURACY)
12 006001 LONGITUDE (HIGH ACCURACY)
13 027001 LATITUDE(HIGH ACCURACY)
14 028001 LONGITUDE(HIGH ACCURACY)
15 027001 LATITUDE(HIGH ACCURACY)
16 028001 LONGITUDE(HIGH ACCURACY)
17 027001 LATITUDE(HIGH ACCURACY)
18 028001 LONGITUDE(HIGH ACCURACY)
19 027001 LATITUDE(HIGH ACCURACY)
20 028001 LONGITUDE(HIGH ACCURACY)
21 007022 SOLAR ELEVATION
22 005043 FIELD OF VIEW NUMBER
23 020010 CLOUD COVER (TOTAL)
24 020016 PRESSURE AT TOP OF CLOUD
25 033003 QUALITY INFORMATION
26 010040 NUMBER OF RETRIEVED LAYERS
27 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
28 007004 PRESSURE
29 007004 PRESSURE
30 015020 INTEGRATED OZONE DENSITY
31 010002 HEIGHT
32 012101 TEMPERATURE/DRY BULB TEMPERATURE
33 013098 INTEGRATED WATER VAPOUR DENSITY
34 007004 PRESSURE
35 007004 PRESSURE
36 015020 INTEGRATED OZONE DENSITY
37 010002 HEIGHT
38 012101 TEMPERATURE/DRY BULB TEMPERATURE
39 013098 INTEGRATED WATER VAPOUR DENSITY
40 007004 PRESSURE
41 007004 PRESSURE
42 015020 INTEGRATED OZONE DENSITY
43 010002 HEIGHT
44 012101 TEMPERATURE/DRY BULB TEMPERATURE
45 013098 INTEGRATED WATER VAPOUR DENSITY
46 007004 PRESSURE
47 007004 PRESSURE
48 015020 INTEGRATED OZONE DENSITY
49 010002 HEIGHT
50 012101 TEMPERATURE/DRY BULB TEMPERATURE
51 013098 INTEGRATED WATER VAPOUR DENSITY
52 007004 PRESSURE
53 007004 PRESSURE
54 015020 INTEGRATED OZONE DENSITY
55 010002 HEIGHT
56 012101 TEMPERATURE/DRY BULB TEMPERATURE
57 013098 INTEGRATED WATER VAPOUR DENSITY
58 007004 PRESSURE
59 007004 PRESSURE
60 015020 INTEGRATED OZONE DENSITY
61 010002 HEIGHT
62 012101 TEMPERATURE/DRY BULB TEMPERATURE
63 013098 INTEGRATED WATER VAPOUR DENSITY
64 007004 PRESSURE
65 007004 PRESSURE
66 015020 INTEGRATED OZONE DENSITY
67 010002 HEIGHT
68 012101 TEMPERATURE/DRY BULB TEMPERATURE
69 013098 INTEGRATED WATER VAPOUR DENSITY
70 007004 PRESSURE
71 007004 PRESSURE
72 015020 INTEGRATED OZONE DENSITY
73 010002 HEIGHT
74 012101 TEMPERATURE/DRY BULB TEMPERATURE
75 013098 INTEGRATED WATER VAPOUR DENSITY
```

| | | |
|-----|--------|--|
| 76 | 007004 | PRESSURE |
| 77 | 007004 | PRESSURE |
| 78 | 015020 | INTEGRATED OZONE DENSITY |
| 79 | 010002 | HEIGHT |
| 80 | 012101 | TEMPERATURE/DRY BULB TEMPERATURE |
| 81 | 013098 | INTEGRATED WATER VAPOUR DENSITY |
| 82 | 007004 | PRESSURE |
| 83 | 007004 | PRESSURE |
| 84 | 015020 | INTEGRATED OZONE DENSITY |
| 85 | 010002 | HEIGHT |
| 86 | 012101 | TEMPERATURE/DRY BULB TEMPERATURE |
| 87 | 013098 | INTEGRATED WATER VAPOUR DENSITY |
| 88 | 007004 | PRESSURE |
| 89 | 007004 | PRESSURE |
| 90 | 015020 | INTEGRATED OZONE DENSITY |
| 91 | 010002 | HEIGHT |
| 92 | 012101 | TEMPERATURE/DRY BULB TEMPERATURE |
| 93 | 013098 | INTEGRATED WATER VAPOUR DENSITY |
| 94 | 007004 | PRESSURE |
| 95 | 007004 | PRESSURE |
| 96 | 015020 | INTEGRATED OZONE DENSITY |
| 97 | 010002 | HEIGHT |
| 98 | 012101 | TEMPERATURE/DRY BULB TEMPERATURE |
| 99 | 013098 | INTEGRATED WATER VAPOUR DENSITY |
| 100 | 007004 | PRESSURE |
| 101 | 007004 | PRESSURE |
| 102 | 015020 | INTEGRATED OZONE DENSITY |
| 103 | 010002 | HEIGHT |
| 104 | 012101 | TEMPERATURE/DRY BULB TEMPERATURE |
| 105 | 013098 | INTEGRATED WATER VAPOUR DENSITY |
| 106 | 007004 | PRESSURE |
| 107 | 007004 | PRESSURE |
| 108 | 015020 | INTEGRATED OZONE DENSITY |
| 109 | 010002 | HEIGHT |
| 110 | 012101 | TEMPERATURE/DRY BULB TEMPERATURE |
| 111 | 013098 | INTEGRATED WATER VAPOUR DENSITY |
| 112 | 224000 | FIRST ORDER STATISTICS FOLLOW |
| 113 | 236000 | BACKWARD REFERENCE BIT MAP |
| 114 | 031002 | EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR |
| 115 | 031031 | DATA PRESENT INDICATOR |
| 116 | 031031 | DATA PRESENT INDICATOR |
| 117 | 031031 | DATA PRESENT INDICATOR |
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| 168 | 031031 | DATA PRESENT INDICATOR |

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169 031031 DATA PRESENT INDICATOR
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196 031031 DATA PRESENT INDICATOR
197 031031 DATA PRESENT INDICATOR
198 031031 DATA PRESENT INDICATOR
199 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
200 001032 GENERATING APPLICATION
201 008023 FIRST ORDER STATISTICS
202 031002 EXTENDED DELAYED DESCRIPTOR REPLICATION FACTOR
203 224255 INTEGRATED OZONE DENSITY
204 224255 TEMPERATURE/DRY BULB TEMPERATURE
205 224255 INTEGRATED WATER VAPOUR DENSITY
206 224255 INTEGRATED OZONE DENSITY
207 224255 TEMPERATURE/DRY BULB TEMPERATURE
208 224255 INTEGRATED WATER VAPOUR DENSITY
209 224255 INTEGRATED OZONE DENSITY
210 224255 TEMPERATURE/DRY BULB TEMPERATURE
211 224255 INTEGRATED WATER VAPOUR DENSITY
212 224255 INTEGRATED OZONE DENSITY
213 224255 TEMPERATURE/DRY BULB TEMPERATURE
214 224255 INTEGRATED WATER VAPOUR DENSITY
215 224255 INTEGRATED OZONE DENSITY
216 224255 TEMPERATURE/DRY BULB TEMPERATURE
217 224255 INTEGRATED WATER VAPOUR DENSITY
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219 224255 TEMPERATURE/DRY BULB TEMPERATURE
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222 224255 TEMPERATURE/DRY BULB TEMPERATURE
223 224255 INTEGRATED WATER VAPOUR DENSITY
224 224255 INTEGRATED OZONE DENSITY
225 224255 TEMPERATURE/DRY BULB TEMPERATURE
226 224255 INTEGRATED WATER VAPOUR DENSITY
227 224255 INTEGRATED OZONE DENSITY
228 224255 TEMPERATURE/DRY BULB TEMPERATURE
229 224255 INTEGRATED WATER VAPOUR DENSITY
230 224255 INTEGRATED OZONE DENSITY
231 224255 TEMPERATURE/DRY BULB TEMPERATURE
232 224255 INTEGRATED WATER VAPOUR DENSITY
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234 224255 TEMPERATURE/DRY BULB TEMPERATURE
235 224255 INTEGRATED WATER VAPOUR DENSITY
236 224255 INTEGRATED OZONE DENSITY
237 224255 TEMPERATURE/DRY BULB TEMPERATURE
238 224255 INTEGRATED WATER VAPOUR DENSITY
239 224255 INTEGRATED OZONE DENSITY
240 224255 TEMPERATURE/DRY BULB TEMPERATURE
241 224255 INTEGRATED WATER VAPOUR DENSITY
242 224255 INTEGRATED OZONE DENSITY
243 224255 TEMPERATURE/DRY BULB TEMPERATURE
244 224255 INTEGRATED WATER VAPOUR DENSITY

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STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1

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1 SATELLITE IDENT .6000000000E+02 CODE TABLE 001007
2 SATELLITE INSTR .1610000000E+03 CODE TABLE 002019
3 IDENTIFICATION .2540000000E+03 CODE TABLE 001033
4 PRODUCT TYPE FO .2000000000E+01 CODE TABLE 002172
5 YEAR .2003000000E+04 YEAR
6 MONTH .1200000000E+02 MONTH
7 DAY .3000000000E+02 DAY
8 HOUR .5000000000E+01 HOUR
9 MINUTE .8000000000E+01 MINUTE
10 SECOND .4700000000E+02 SECOND
11 LATITUDE (HIGH .7054873657E+02 DEGREE
12 LONGITUDE (HIGH -.1051750107E+03 DEGREE
13 LATITUDE (HIGH A .6912625885E+02 DEGREE

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| | | | |
|-----|-----------------|------------------|-------------------|
| 14 | LONGITUDE(HIGH | -.1053648834E+03 | DEGREE |
| 15 | LATITUDE(HIGH A | .6912625885E+02 | DEGREE |
| 16 | LONGITUDE(HIGH | -.1049437027E+03 | DEGREE |
| 17 | LATITUDE(HIGH A | .7198175049E+02 | DEGREE |
| 18 | LONGITUDE(HIGH | -.1053648834E+03 | DEGREE |
| 19 | LATITUDE(HIGH A | .7198175049E+02 | DEGREE |
| 20 | LONGITUDE(HIGH | -.1049437027E+03 | DEGREE |
| 21 | SOLAR ELEVATION | MISSING | DEGREE |
| 22 | FIELD OF VIEW N | MISSING | NUMERIC |
| 23 | CLOUD COVER (TO | MISSING | % |
| 24 | PRESSURE AT TOP | MISSING | PA |
| 25 | QUALITY INFORMA | MISSING | CODE TABLE 033003 |
| 26 | NUMBER OF RETRI | .1400000000E+02 | NUMERIC |
| 27 | DELAYED DESCRIP | .1400000000E+02 | NUMERIC |
| 28 | PRESSURE | .4199999809E+01 | PA |
| 29 | PRESSURE | .1350000000E+02 | PA |
| 30 | INTEGRATED OZON | MISSING | KG/M**2 |
| 31 | HEIGHT | .6831000000E+05 | M |
| 32 | TEMPERATURE/DRY | .2340299988E+03 | K |
| 33 | INTEGRATED WATE | MISSING | KG/M**2 |
| 34 | PRESSURE | .1350000000E+02 | PA |
| 35 | PRESSURE | .4620000076E+02 | PA |
| 36 | INTEGRATED OZON | .7590000223E-05 | KG/M**2 |
| 37 | HEIGHT | .6021000000E+05 | M |
| 38 | TEMPERATURE/DRY | .2284700012E+03 | K |
| 39 | INTEGRATED WATE | .9030000001E-05 | KG/M**2 |
| 40 | PRESSURE | .4620000076E+02 | PA |
| 41 | PRESSURE | .1010000000E+03 | PA |
| 42 | INTEGRATED OZON | .2393000068E-04 | KG/M**2 |
| 43 | HEIGHT | .5212000000E+05 | M |
| 44 | TEMPERATURE/DRY | .2133500061E+03 | K |
| 45 | INTEGRATED WATE | .1625000004E-04 | KG/M**2 |
| 46 | PRESSURE | .1010000000E+03 | PA |
| 47 | PRESSURE | .2116000061E+03 | PA |
| 48 | INTEGRATED OZON | .6621999637E-04 | KG/M**2 |
| 49 | HEIGHT | .4702000000E+05 | M |
| 50 | TEMPERATURE/DRY | .2254199982E+03 | K |
| 51 | INTEGRATED WATE | .4688999979E-04 | KG/M**2 |
| 52 | PRESSURE | .2116000061E+03 | PA |
| 53 | PRESSURE | .3292000122E+03 | PA |
| 54 | INTEGRATED OZON | .9162999777E-04 | KG/M**2 |
| 55 | HEIGHT | .4202000000E+05 | M |
| 56 | TEMPERATURE/DRY | .2310099945E+03 | K |
| 57 | INTEGRATED WATE | .4750000153E-04 | KG/M**2 |
| 58 | PRESSURE | .3292000122E+03 | PA |
| 59 | PRESSURE | .5112000122E+03 | PA |
| 60 | INTEGRATED OZON | .1842899946E-03 | KG/M**2 |
| 61 | HEIGHT | .3899000000E+05 | M |
| 62 | TEMPERATURE/DRY | .2321300049E+03 | K |
| 63 | INTEGRATED WATE | .6962999760E-04 | KG/M**2 |
| 64 | PRESSURE | .5112000122E+03 | PA |
| 65 | PRESSURE | .7977000122E+03 | PA |
| 66 | INTEGRATED OZON | .3173100122E-03 | KG/M**2 |
| 67 | HEIGHT | .3596000000E+05 | M |
| 68 | TEMPERATURE/DRY | .2350899963E+03 | K |
| 69 | INTEGRATED WATE | .1090200021E-03 | KG/M**2 |
| 70 | PRESSURE | .7977000122E+03 | PA |
| 71 | PRESSURE | .1224300049E+04 | PA |
| 72 | INTEGRATED OZON | .4066799884E-03 | KG/M**2 |
| 73 | HEIGHT | .3289000000E+05 | M |
| 74 | TEMPERATURE/DRY | .2318200073E+03 | K |
| 75 | INTEGRATED WATE | .1574700000E-03 | KG/M**2 |
| 76 | PRESSURE | .1224300049E+04 | PA |
| 77 | PRESSURE | .1915400024E+04 | PA |
| 78 | INTEGRATED OZON | .6024300237E-03 | KG/M**2 |
| 79 | HEIGHT | .2999000000E+05 | M |
| 80 | TEMPERATURE/DRY | .2264799957E+03 | K |
| 81 | INTEGRATED WATE | .2336199977E-03 | KG/M**2 |
| 82 | PRESSURE | .1915400024E+04 | PA |
| 83 | PRESSURE | .3063699951E+04 | PA |
| 84 | INTEGRATED OZON | .1051279949E-02 | KG/M**2 |
| 85 | HEIGHT | .2702000000E+05 | M |
| 86 | TEMPERATURE/DRY | .2240099945E+03 | K |
| 87 | INTEGRATED WATE | .3638800117E-03 | KG/M**2 |
| 88 | PRESSURE | .3063699951E+04 | PA |
| 89 | PRESSURE | .4633399902E+04 | PA |
| 90 | INTEGRATED OZON | .1290829969E-02 | KG/M**2 |
| 91 | HEIGHT | .2395000000E+05 | M |
| 92 | TEMPERATURE/DRY | .2207200012E+03 | K |
| 93 | INTEGRATED WATE | .4690799979E-03 | KG/M**2 |
| 94 | PRESSURE | .4633399902E+04 | PA |
| 95 | PRESSURE | .7078700195E+04 | PA |
| 96 | INTEGRATED OZON | .1544810017E-02 | KG/M**2 |
| 97 | HEIGHT | .2125000000E+05 | M |
| 98 | TEMPERATURE/DRY | .2228000031E+03 | K |
| 99 | INTEGRATED WATE | .6983099738E-03 | KG/M**2 |
| 100 | PRESSURE | .7078700195E+04 | PA |
| 101 | PRESSURE | .1160940039E+05 | PA |
| 102 | INTEGRATED OZON | .1474790042E-02 | KG/M**2 |
| 103 | HEIGHT | .1847000000E+05 | M |
| 104 | TEMPERATURE/DRY | .2228200073E+03 | K |
| 105 | INTEGRATED WATE | .1418650034E-02 | KG/M**2 |
| 106 | PRESSURE | .1160940039E+05 | PA |



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107 PRESSURE .1837990039E+05 PA
108 INTEGRATED OZON .9062999743E-03 KG/M**2
109 HEIGHT .1521000000E+05 M
110 TEMPERATURE/DRY .2262100067E+03 K
111 INTEGRATED WATE .1764419954E-02 KG/M**2
112 FIRST ORDER STA .0000000000E+00
113 BACKWARD REFERE .0000000000E+00
114 EXTENDED DELAYE .8400000000E+02 NUMERIC
115 DATA PRESENT IN MISSING NUMERIC
116 DATA PRESENT IN MISSING NUMERIC
117 DATA PRESENT IN .0000000000E+00 NUMERIC
118 DATA PRESENT IN MISSING NUMERIC
119 DATA PRESENT IN .0000000000E+00 NUMERIC
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195 DATA PRESENT IN .0000000000E+00 NUMERIC
196 DATA PRESENT IN MISSING NUMERIC
197 DATA PRESENT IN .0000000000E+00 NUMERIC
198 DATA PRESENT IN .0000000000E+00 NUMERIC
199 IDENTIFICATION .2100000000E+03 CODE TABLE 001031
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200 GENERATING APPL .1000000000E+01 CODE TABLE 001032
201 FIRST ORDER STA .9000000000E+01 CODE TABLE 008023
202 EXTENDED DELAYE .4200000000E+02 NUMERIC
203 INTEGRATED OZON MISSING KG/M**2
204 TEMPERATURE/DRY .1429999948E+01 K
205 INTEGRATED WATE MISSING KG/M**2
206 INTEGRATED OZON .1300000037E-06 KG/M**2
207 TEMPERATURE/DRY .1809999943E+01 K
208 INTEGRATED WATE .6999999869E-06 KG/M**2
209 INTEGRATED OZON .6299999882E-06 KG/M**2
210 TEMPERATURE/DRY .1840000033E+01 K
211 INTEGRATED WATE .1699999984E-05 KG/M**2
212 INTEGRATED OZON .1389999966E-05 KG/M**2
213 TEMPERATURE/DRY .1720000029E+01 K
214 INTEGRATED WATE .2640000048E-05 KG/M**2
215 INTEGRATED OZON .2770000037E-05 KG/M**2
216 TEMPERATURE/DRY .1629999995E+01 K
217 INTEGRATED WATE .3110000080E-05 KG/M**2
218 INTEGRATED OZON .3639999932E-05 KG/M**2
219 TEMPERATURE/DRY .1799999952E+01 K
220 INTEGRATED WATE .3500000048E-05 KG/M**2
221 INTEGRATED OZON .5330000022E-05 KG/M**2
222 TEMPERATURE/DRY .1450000048E+01 K
223 INTEGRATED WATE .3900000138E-05 KG/M**2
224 INTEGRATED OZON .7369999821E-05 KG/M**2
225 TEMPERATURE/DRY .9200000167E+00 K
226 INTEGRATED WATE .4500000159E-05 KG/M**2
227 INTEGRATED OZON .1017999966E-04 KG/M**2
228 TEMPERATURE/DRY .7200000286E+00 K
229 INTEGRATED WATE .5259999853E-05 KG/M**2
230 INTEGRATED OZON .1412999973E-04 KG/M**2
231 TEMPERATURE/DRY .5899999738E+00 K
232 INTEGRATED WATE .9379999938E-05 KG/M**2
233 INTEGRATED OZON .1768999937E-04 KG/M**2
234 TEMPERATURE/DRY .5000000000E+00 K
235 INTEGRATED WATE .1723999958E-04 KG/M**2
236 INTEGRATED OZON .2092999966E-04 KG/M**2
237 TEMPERATURE/DRY .4900000095E+00 K
238 INTEGRATED WATE .1954000072E-04 KG/M**2
239 INTEGRATED OZON .2644000051E-04 KG/M**2
240 TEMPERATURE/DRY .4199999869E+00 K
241 INTEGRATED WATE .2814000072E-04 KG/M**2
242 INTEGRATED OZON .3176999962E-04 KG/M**2
243 TEMPERATURE/DRY .4799999893E+00 K
244 INTEGRATED WATE .5303999933E-04 KG/M**2
```



3.59 Envisat SCIAMACHY data

RDB type 12, subtype 210

```

          ECMWF

    BUFR DECODING SOFTWARE VERSION - 6.1
      25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
    BUFR SECTION 0

    LENGTH OF SECTION 0 (BYTES)          8
    TOTAL LENGTH OF BUFR MESSAGE (BYTES) 4264
    BUFR EDITION NUMBER                   3
1
    BUFR SECTION 1

    LENGTH OF SECTION 1 (BYTES)          18
    BUFR EDITION NUMBER                   3
    ORIGINATING SUB-CENTRE                 0
    ORIGINATING CENTRE                     98
    UPDATE SEQUENCE NUMBER                 1
    FLAG (PRESENCE OF SECTION 2)          128
    BUFR MESSAGE TYPE                       3
    BUFR MESSAGE SUBTYPE                   206
    VERSION NUMBER OF LOCAL TABLE         1
    YEAR                                    3
    MONTH                                  12
    DAY                                    27
    HOUR                                    5
    MINUTE                                  7
    VERSION NUMBER OF MASTER TABLE        11
    BUFR MASTER TABLE                     0
1
    BUFR SECTION 2

    LENGTH OF SECTION 2                    52

    REPORT DATA BASE KEY

    RDB DATA TYPE                         2
    RDB DATA SUBTYPE                       206
    YEAR                                    2003
    MONTH                                  12
    DAY                                    27
    HOUR                                    5
    MINUTE                                  7
    SECOND                                  57
    LATITUDE 1                             53.49
    LONGITUDE 1                             79.48
    LATITUDE 2                              66.14
    LONGITUDE 2                             100.86
    NUMBER OF OBSERVATIONS                   128
    IDENTIFIER                               60
    TOTAL BUFR MESSAGE LENGTH               4264
    DAY (RDB INSERTION)                     27
    HOUR (RDB INSERTION)                     8
    MINUTE (RDB INSERTION)                   42
    SECOND (RDB INSERTION)                   46
    DAY (MDB ARRIVAL)                       27
    HOUR (MDB ARRIVAL)                       8
    MINUTE (MDB ARRIVAL)                     39
    SECOND (MDB ARRIVAL)                     46
    CORRECTION NUMBER                       0
    PART OF MESSAGE                         0
    CORRECTION NUMBER                       0
    PART OF MESSAGE                         0
    CORRECTION NUMBER                       0
    PART OF MESSAGE                         0
    CORRECTION NUMBER                       0
    PART OF MESSAGE                         0
    CORRECTION NUMBER                       0
    PART OF MESSAGE                         0
    QUALITY CONTROL % CONF                   70
1
    BUFR SECTION 3

    LENGTH OF SECTION 3 (BYTES)             32
    RESERVED                                 0
    NUMBER OF DATA SUBSETS                  128
    FLAG (DATA TYPE/DATA COMPRESSION)       192

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DATA DESCRIPTORS (UNEXPANDED)

```
1 310020
2 224000
3 236000
4 101000
5 031001
6 031031
7 001031
8 001032
9 008023
10 101000
11 031001
12 224255
```

DATA DESCRIPTORS (EXPANDED)

```
1 001007 SATELLITE IDENTIFIER
2 002019 SATELLITE INSTRUMENTS
3 001033 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
4 002172 PRODUCT TYPE FOR RETRIEVED ATMOSPHERIC GASES
5 004001 YEAR
6 004002 MONTH
7 004003 DAY
8 004004 HOUR
9 004005 MINUTE
10 004006 SECOND
11 005001 LATITUDE (HIGH ACCURACY)
12 006001 LONGITUDE (HIGH ACCURACY)
13 027001 LATITUDE(HIGH ACCURACY)
14 028001 LONGITUDE(HIGH ACCURACY)
15 027001 LATITUDE(HIGH ACCURACY)
16 028001 LONGITUDE(HIGH ACCURACY)
17 027001 LATITUDE(HIGH ACCURACY)
18 028001 LONGITUDE(HIGH ACCURACY)
19 027001 LATITUDE(HIGH ACCURACY)
20 028001 LONGITUDE(HIGH ACCURACY)
21 007022 SOLAR ELEVATION
22 005043 FIELD OF VIEW NUMBER
23 020010 CLOUD COVER (TOTAL)
24 020016 PRESSURE AT TOP OF CLOUD
25 033003 QUALITY INFORMATION
26 010040 NUMBER OF RETRIEVED LAYERS
27 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
28 007004 PRESSURE
29 007004 PRESSURE
30 015020 INTEGRATED OZONE DENSITY
31 010002 HEIGHT
32 224000 FIRST ORDER STATISTICS FOLLOW
33 236000 BACKWARD REFERENCE BIT MAP
34 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
35 031031 DATA PRESENT INDICATOR
36 031031 DATA PRESENT INDICATOR
37 031031 DATA PRESENT INDICATOR
38 031031 DATA PRESENT INDICATOR
39 001031 IDENTIFICATION OF ORIGINATING/GENERATING CENTRE
40 001032 GENERATING APPLICATION
41 008023 FIRST ORDER STATISTICS
42 031001 DELAYED DESCRIPTOR REPLICATION FACTOR
43 224255 INTEGRATED OZONE DENSITY
```

```
STARTING SUBSET TO BE PRINTED : 1
ENDING SUBSET TO BE PRINTED : 1
```

```
1 SATELLITE IDENT .6000000000E+02 CODE TABLE 001007
2 SATELLITE INSTR .1750000000E+03 CODE TABLE 002019
3 IDENTIFICATION .2540000000E+03 CODE TABLE 001033
4 PRODUCT TYPE FO .1000000000E+01 CODE TABLE 002172
5 YEAR .2003000000E+04 YEAR
6 MONTH .1200000000E+02 MONTH
7 DAY .2700000000E+02 DAY
8 HOUR .5000000000E+01 HOUR
9 MINUTE .7000000000E+01 MINUTE
10 SECOND .5700000000E+02 SECOND
11 LATITUDE (HIGH .6352389145E+02 DEGREE
12 LONGITUDE (HIGH .1008612213E+03 DEGREE
13 LATITUDE (HIGH A .6348162842E+02 DEGREE
14 LONGITUDE (HIGH .1016569901E+03 DEGREE
15 LATITUDE (HIGH A .6324956894E+02 DEGREE
16 LONGITUDE (HIGH .1013484726E+03 DEGREE
17 LATITUDE (HIGH A .6379455185E+02 DEGREE
18 LONGITUDE (HIGH .1003639832E+03 DEGREE
19 LATITUDE (HIGH A .6356980896E+02 DEGREE
20 LONGITUDE (HIGH .1000754471E+03 DEGREE
21 SOLAR ELEVATION MISSING DEGREE
22 FIELD OF VIEW N MISSING NUMERIC
23 CLOUD COVER (TO MISSING %
24 PRESSURE AT TOP MISSING PA
25 QUALITY INFORMA MISSING CODE TABLE 033003
26 NUMBER OF RETRI .1000000000E+01 NUMERIC
27 DELAYED DESCRIP .1000000000E+01 NUMERIC
28 PRESSURE .1000000000E+01 PA
```



```
29 PRESSURE .1013250000E+06 PA
30 INTEGRATED OZON .6650079973E-02 KG/M**2
31 HEIGHT MISSING M
32 FIRST ORDER STA .0000000000E+00
33 BACKWARD REFERE .0000000000E+00
34 DELAYED DESCRIP .4000000000E+01 NUMERIC
35 DATA PRESENT IN MISSING NUMERIC
36 DATA PRESENT IN MISSING NUMERIC
37 DATA PRESENT IN .0000000000E+00 NUMERIC
38 DATA PRESENT IN MISSING NUMERIC
39 IDENTIFICATION .2100000000E+03 CODE TABLE 001031
40 GENERATING APPL .1000000000E+01 CODE TABLE 001032
41 FIRST ORDER STA .9000000000E+01 CODE TABLE 008023
42 DELAYED DESCRIP .1000000000E+01 NUMERIC
43 INTEGRATED OZON .7991999883E-04 KG/M**2
```

3.60 Envisat RA-2 data

RDB type 12, subtype 213

```
ECMWF
BUFR DECODING SOFTWARE VERSION - 6.1
25 AUG 2000.

Your path for bufr tables is :
/localhome/emos_pp/tables/bufr/000220/
BUFR TABLES TO BE LOADED B0000981101,D0000981101
1
  BUFR SECTION 0
LENGTH OF SECTION 0 (BYTES)      8
TOTAL LENGTH OF BUFR MESSAGE (BYTES) 7916
BUFR EDITION NUMBER              3
1
  BUFR SECTION 1
LENGTH OF SECTION 1 (BYTES)      18
BUFR EDITION NUMBER              3
ORIGINATING SUB-CENTRE           0
ORIGINATING CENTRE               98
UPDATE SEQUENCE NUMBER           1
FLAG (PRESENCE OF SECTION 2)    128
BUFR MESSAGE TYPE                 12
BUFR MESSAGE SUBTYPE              213
VERSION NUMBER OF LOCAL TABLE   1
YEAR                              3
MONTH                             12
DAY                              27
HOUR                             5
MINUTE                           2
VERSION NUMBER OF MASTER TABLE  11
BUFR MASTER TABLE                0
1
  BUFR SECTION 2
LENGTH OF SECTION 2              52
REPORT DATA BASE KEY
RDB DATA TYPE                   12
RDB DATA SUBTYPE                 213
YEAR                             2003
MONTH                             12
DAY                              27
HOUR                             5
MINUTE                           2
SECOND                           57
LATITUDE 1                        73.86
LONGITUDE 1                       104.81
LATITUDE 2                         79.96
LONGITUDE 2                       131.89
NUMBER OF OBSERVATIONS            128
IDENTIFIER                        60
TOTAL BUFR MESSAGE LENGTH        7916
DAY (RDB INSERTION)               27
HOUR (RDB INSERTION)              8
MINUTE (RDB INSERTION)            39
SECOND (RDB INSERTION)            15
DAY (MDB ARRIVAL)                 27
HOUR (MDB ARRIVAL)                8
MINUTE (MDB ARRIVAL)              37
SECOND (MDB ARRIVAL)              52
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
PART OF MESSAGE                   0
CORRECTION NUMBER                 0
QUALITY CONTROL % CONF            70
1
  BUFR SECTION 3
LENGTH OF SECTION 3 (BYTES)      10
RESERVED                          0
NUMBER OF DATA SUBSETS           128
FLAG (DATA TYPE/DATA COMPRESSION) 192
```

DATA DESCRIPTORS (UNEXPANDED)

1 312052

DATA DESCRIPTORS (EXPANDED)

1 001007 SATELLITE IDENTIFIER
 2 002019 SATELLITE INSTRUMENTS
 3 001096 ACQUISITION STATION IDENTIFIER
 4 025061 SOFTWARE IDENTIFICATION
 5 005040 ORBIT NUMBER
 6 025120 RA2_L2_PROCESSING FLAG
 7 025121 RA2_L2_PROCESSING QUALITY
 8 025124 MWR L2 PROCESSING FLAG
 9 025125 MWR L2 PROCESSING QUALITY
 10 025122 HARDWARE CONFIGURATION FOR RF
 11 025123 HARDWARE CONFIGURATION FOR HPA
 12 004001 YEAR
 13 004002 MONTH
 14 004003 DAY
 15 004004 HOUR
 16 004005 MINUTE
 17 004006 SECOND
 18 005001 LATITUDE (HIGH ACCURACY)
 19 006001 LONGITUDE (HIGH ACCURACY)
 20 007002 HEIGHT OR ALTITUDE
 21 002119 RA-2 INSTRUMENT OPERATIONS
 22 033047 MEASUREMENT CONFIDENCE DATA
 23 010081 ALTITUDE OF COG ABOVE REFERENCE ELLIPSOID
 24 010082 INSTANTANEOUS ALTITUDE RATE
 25 010083 OFF NADIR ANGLE OF THE SATELLITE FROM PLATFORM DATA
 26 010084 OFF NADIR ANGLE OF THE SATELLITE FROM WAVEFORM DATA
 27 002116 PERCENTAGE OF 320 MHZ BAND PROCESSED
 28 002117 PERCENTAGE OF 80 MHZ BAND PROCESSED
 29 002118 PERCENTAGE OF 20 MHZ BAND PROCESSED
 30 002156 PERCENTAGE OF VALID KU OCEAN RETRACKER MEASUREMENTS
 31 002157 PERCENTAGE OF VALID S OCEAN RETRACKER MEASUREMENTS
 32 014055 SOLAR ACTIVITY INDEX
 33 022150 NUMBER OF 18 HZ VALID POINTS FOR KU BAND
 34 022151 KU BAND OCEAN RANGE
 35 022152 STD OF 18 HZ KU BAND OCEAN RANGE
 36 022153 NUMBER OF 18 HZ VALID POINTS FOR S BAND
 37 022154 S BAND OCEAN RANGE
 38 022155 STD OF 18 HZ S BAND OCEAN RANGE
 39 022156 KU BAND SIGNIFICANT WAVE HEIGHT
 40 022157 STD 18 HZ KU BAND SIGNIFICANT WAVE HEIGHT
 41 022158 S BAND SIGNIFICANT WAVE HEIGHT
 42 022159 STD 18 HZ S BAND SIGNIFICANT WAVE HEIGHT
 43 021137 KU BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT
 44 021138 STD KU BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT
 45 021139 KU BAND NET INSTRUMENTAL CORRECTION FOR ACG
 46 021140 S BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT
 47 021141 STD S BAND CORRECTED OCEAN BACKSCATTER COEFFICIENT
 48 021142 S BAND NET INSTRUMENTAL CORRECTION FOR ACG
 49 010085 MEAN SEA SURFACE HEIGHT
 50 010086 GEOID HEIGHT
 51 010087 OCEAN DEPTH/LAND ELEVATION
 52 010088 TOTAL GEOCENTRIC OCEAN TIDE HEIGHT SOLUTION 1
 53 010089 TOTAL GEOCENTRIC OCEAN TIDE HEIGHT SOLUTION 2
 54 010090 LONG PERIOD TIDE HEIGHT
 55 010091 TIDAL LOADING HEIGHT
 56 010092 SOLID EARTH TIDE HEIGHT
 57 010093 GEOCENTRIC POLE TIDE HEIGHT
 58 011002 WIND SPEED
 59 025126 MODEL DRY TROPOSPHERIC CORRECTION
 60 025127 SEA SURFACE HEIGHT CORRECTION DUE TO PRESSURE LOADING
 61 025128 MODEL WET TROPOSPHERIC CORRECTION
 62 025129 MWR DERIVED WET TROPOSPHERIC CORRECTION
 63 025130 RA2 IONOSPHERIC CORRECTION ON KU BAND
 64 025131 IONOSPHERIC CORRECTION FROM DORIS ON KU BAND
 65 025132 IONOSPHERIC CORRECTION FROM MODEL ON KU BAND
 66 025133 SEA STATE BIAS CORRECTION ON KU BAND
 67 025134 RA2 IONOSPHERIC CORRECTION ON S BAND
 68 025135 IONOSPHERIC CORRECTION FROM DORIS ON S BAND
 69 025136 IONOSPHERIC CORRECTION FROM MODEL ON S BAND
 70 025137 SEA STATE BIAS CORRECTION ON S BAND
 71 013096 MWR WATER VAPOUR CONTENT
 72 013097 MWR LIQUID WATER CONTENT
 73 011095 U COMPONENT OF THE MODEL WIND VECTOR
 74 011096 V COMPONENT OF THE MODEL WIND VECTOR
 75 012188 INTERPOLATED 23.8 GHZ BRIGHTNESS T FROM MWR
 76 012189 INTERPOLATED 36.5 GHZ BRIGHTNESS T FROM MWR
 77 002158 RA-2 INSTRUMENT
 78 002159 MWR INSTRUMENT
 79 033052 S BAND OCEAN RETRACKING QUALITY
 80 033053 KU BAND OCEAN RETRACKING QUALITY
 81 021143 KU BAND RAIN ATTENUATION
 82 021144 ALTIMETER RAIN FLAG

STARTING SUBSET TO BE PRINTED : 1
 ENDING SUBSET TO BE PRINTED : 1

| | | | | | |
|----|-----------------|------------------|-------------------|--------|----------|
| 1 | SATELLITE IDENT | .6000000000E+02 | CODE TABLE | 001007 | |
| 2 | SATELLITE INSTR | .1470000000E+03 | CODE TABLE | 002019 | |
| 3 | ACQUISITION STA | .1020000000E+04 | CCITTIA5 | | PDHS-K |
| 4 | SOFTWARE IDENTI | .1290120000E+06 | CCITTIA5 | | RA2/4.56 |
| 5 | ORBIT NUMBER | .9535000000E+04 | NUMERIC | | |
| 6 | RA2_L2_PROCESSI | .0000000000E+00 | CODE TABLE | 025120 | |
| 7 | RA2_L2_PROCESSI | .9800000000E+02 | % | | |
| 8 | MWR L2 PROCESSI | .0000000000E+00 | CODE TABLE | 025124 | |
| 9 | MWR L2 PROCESSI | .1000000000E+03 | % | | |
| 10 | HARDWARE CONFIG | .0000000000E+00 | CODE TABLE | 025122 | |
| 11 | HARDWARE CONFIG | .0000000000E+00 | CODE TABLE | 025123 | |
| 12 | YEAR | .2003000000E+04 | YEAR | | |
| 13 | MONTH | .1200000000E+02 | MONTH | | |
| 14 | DAY | .2700000000E+02 | DAY | | |
| 15 | HOUR | .5000000000E+01 | HOUR | | |
| 16 | MINUTE | .2000000000E+01 | MINUTE | | |
| 17 | SECOND | .5700000000E+02 | SECOND | | |
| 18 | LATITUDE (HIGH | .7996044922E+02 | DEGREE | | |
| 19 | LONGITUDE (HIGH | .1318923035E+03 | DEGREE | | |
| 20 | HEIGHT OR ALTIT | .0000000000E+00 | M | | |
| 21 | RA-2 INSTRUMENT | .6000000000E+01 | CODE TABLE | 002119 | |
| 22 | MEASUREMENT CON | .4304000000E+05 | FLAG TABLE | 033047 | |
| 23 | ALTITUDE OF COG | .7967498125E+06 | M | | |
| 24 | INSTANTANEOUS A | -.2809000015E+01 | M/S | | |
| 25 | OFF NADIR ANGLE | | MISSING DEGREE**2 | | |
| 26 | OFF NADIR ANGLE | .0000000000E+00 | DEGREE**2 | | |
| 27 | PERCENTAGE OF 3 | .9400000000E+02 | % | | |
| 28 | PERCENTAGE OF 8 | .3000000000E+01 | % | | |
| 29 | PERCENTAGE OF 2 | .3000000000E+01 | % | | |
| 30 | PERCENTAGE OF V | .9200000000E+02 | % | | |
| 31 | PERCENTAGE OF V | .1000000000E+02 | % | | |
| 32 | SOLAR ACTIVITY | .5800000000E+02 | NUMERIC | | |
| 33 | NUMBER OF 18 HZ | .2000000000E+02 | NUMERIC | | |
| 34 | KU BAND OCEAN R | .7967596875E+06 | M | | |
| 35 | STD OF 18 HZ KU | .1580000073E+00 | M | | |
| 36 | NUMBER OF 18 HZ | | MISSING NUMERIC | | |
| 37 | S BAND OCEAN RA | | MISSING M | | |
| 38 | STD OF 18 HZ S | | MISSING M | | |
| 39 | KU BAND SIGNIFI | .0000000000E+00 | M | | |
| 40 | STD 18 HZ KU BA | .0000000000E+00 | M | | |
| 41 | S BAND SIGNIFI | | MISSING M | | |
| 42 | STD 18 HZ S BA | | MISSING M | | |
| 43 | KU BAND CORRECT | .1311999989E+02 | DB | | |
| 44 | STD KU BAND COR | .7900000215E+00 | DB | | |
| 45 | KU BAND NET INS | .1860000014E+01 | DB | | |
| 46 | S BAND CORRECT | | MISSING DB | | |
| 47 | STD S BAND COR | | MISSING DB | | |
| 48 | S BAND NET INS | .2529999971E+01 | DB | | |
| 49 | MEAN SEA SURFAC | -.4550000131E+00 | M | | |
| 50 | GEOID HEIGHT | -.1381999969E+01 | M | | |
| 51 | OCEAN DEPTH/LAN | -.3577000000E+04 | M | | |
| 52 | TOTAL GEOCENTRI | -.6300000101E-01 | M | | |
| 53 | TOTAL GEOCENTRI | -.3299999982E-01 | M | | |
| 54 | LONG PERIOD TID | .1099999994E-01 | M | | |
| 55 | TIDAL LOADING H | .0000000000E+00 | M | | |
| 56 | SOLID EARTH TID | -.3200000152E-01 | M | | |
| 57 | GEOCENTRIC POLE | -.2000000095E-02 | M | | |
| 58 | WIND SPEED | .2099999905E+01 | M/S | | |
| 59 | MODEL DRY TROPO | -.2302000046E+01 | M | | |
| 60 | SEA SURFACE HEI | -.2899999917E-01 | M | | |
| 61 | MODEL WET TROPO | -.1200000010E-01 | M | | |
| 62 | MWR DERIVED WET | -.5360000134E+00 | M | | |
| 63 | RA2 IONOSPHERIC | | MISSING M | | |
| 64 | IONOSPHERIC COR | | MISSING M | | |
| 65 | IONOSPHERIC COR | -.1099999994E-01 | M | | |
| 66 | SEA STATE BIAS | .0000000000E+00 | M | | |
| 67 | RA2 IONOSPHERIC | | MISSING M | | |
| 68 | IONOSPHERIC COR | | MISSING M | | |
| 69 | IONOSPHERIC COR | -.1979999989E+00 | M | | |
| 70 | SEA STATE BIAS | .0000000000E+00 | M | | |
| 71 | MWR WATER VAPOU | .9109999847E+02 | KG/M**2 | | |
| 72 | MWR LIQUID WATE | .2029999971E+01 | KG/M**2 | | |
| 73 | U COMPONENT OF | -.3700000048E+01 | M/S | | |
| 74 | V COMPONENT OF | .2200000048E+01 | M/S | | |
| 75 | INTERPOLATED 23 | .2522100067E+03 | K | | |
| 76 | INTERPOLATED 36 | .2493200073E+03 | K | | |
| 77 | RA-2 INSTRUMENT | .8000000000E+01 | FLAG TABLE | 002158 | |
| 78 | MWR INSTRUMENT | .5600000000E+02 | FLAG TABLE | 002159 | |
| 79 | S BAND OCEAN R | .2097150000E+07 | FLAG TABLE | 033052 | |
| 80 | KU BAND OCEAN R | .0000000000E+00 | FLAG TABLE | 033053 | |
| 81 | KU BAND RAIN AT | -.6553599854E+03 | DB | | |
| 82 | ALTIMETER RAIN | .1000000000E+01 | FLAG TABLE | 021144 | |



3.61 Bufr Table B differences

The following changes in units had happened from B000980000.TXT to B000980201.TXT:

Bufr Table B000980000.TXT

For this table:

KSECI(8)=0 - Version number of local tables used

KSECI(15)=0 - Version number of Master table used.

| | | | | | |
|--------|----------------------------------|----------|---|-------|----|
| 013001 | SPECIFIC HUMIDITY | G/G | 5 | 0 | 14 |
| 013002 | MIXING RATIO | G/G | 5 | 0 | 14 |
| 013005 | VAPOUR DENSITY | G/M**3 | 0 | 0 | 7 |
| 013011 | TOTAL PRECIPITATION/TOTAL WATER | M | 4 | -1 | 14 |
| 013014 | RAINFALL/WATER EQUIVALENT OF SNO | M/S | 7 | 0 | 12 |
| 013015 | SNOWFALL (AVERAGE RATE) | M/S | 1 | 0 | 10 |
| 013016 | PRECIPITABLE WATER | M | 3 | 0 | 7 |
| 013019 | TOTAL PRECIPITATION PAST 1 HOUR | M | 4 | -1 | 14 |
| 013020 | TOTAL PRECIPITATION PAST 3 HOURS | M | 4 | -1 | 14 |
| 013021 | TOTAL PRECIPITATION PAST 6 HOURS | M | 4 | -1 | 14 |
| 013022 | TOTAL PRECIPITATION PAST 12 HOUR | M | 4 | -1 | 14 |
| 013023 | TOTAL PRECIPITATION PAST 24 HOUR | M | 4 | -1 | 14 |
| 013031 | EVAPOTRANSPIRATION | M | 3 | 0 | 7 |
| 013032 | EVAPORATION/EVAPOTRANSPIRATION | M | 4 | 0 | 8 |
| 015202 | INTEGRATED ELECTRON DENSITY | LOG/M**2 | 3 | 13000 | 12 |

Bufr Table B000980201.TXT

For this table:

KSECI(8)=1 - Version number of local tables used

KSECI(15)=2 - Version number of Master table used.

| | | | | | |
|--------|----------------------------------|-------------|---|-------|----|
| 013001 | SPECIFIC HUMIDITY | KG/KG | 5 | 0 | 14 |
| 013002 | MIXING RATIO | KG/KG | 5 | 0 | 14 |
| 013005 | VAPOUR DENSITY | KG/M**3 | 3 | 0 | 7 |
| 013011 | TOTAL PRECIPITATION/TOTAL WATER | KG/M**2 | 1 | -1 | 14 |
| 013014 | RAINFALL/WATER EQUIVALENT OF SNO | KG/(M**2) S | 4 | 0 | 12 |
| 013015 | SNOWFALL (AVERAGE RATE) | M/S | 7 | 0 | 12 |
| 013016 | PRECIPITABLE WATER | KG/M**2 | 0 | 0 | 7 |
| 013019 | TOTAL PRECIPITATION PAST 1 HOUR | KG/M**2 | 1 | -1 | 14 |
| 013020 | TOTAL PRECIPITATION PAST 3 HOURS | KG/M**2 | 1 | -1 | 14 |
| 013021 | TOTAL PRECIPITATION PAST 6 HOURS | KG/M**2 | 1 | -1 | 14 |
| 013022 | TOTAL PRECIPITATION PAST 12 HOUR | KG/M**2 | 1 | -1 | 14 |
| 013023 | TOTAL PRECIPITATION PAST 24 HOUR | KG/M**2 | 1 | -1 | 14 |
| 013031 | EVAPOTRANSPIRATION | KG/M**2 | 0 | 0 | 7 |
| 013032 | EVAPORATION/EVAPOTRANSPIRATION | KG/M**2 | 1 | 0 | 8 |
| 015202 | INTEGRATED ELECTRON DENSITY | 1/M**2 | 3 | 13000 | 12 |