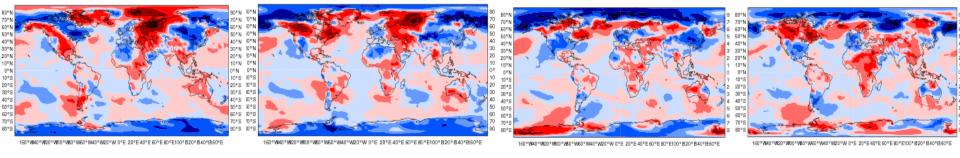
# 2-metre temperature anomalies

4-10 Feb

#### 11-17 Feb

18-25 Feb

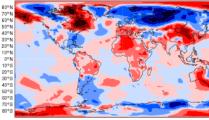
26 Feb-3 March



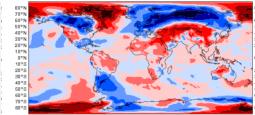
4 -10 March





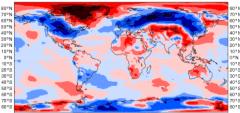


<sup>160°</sup>M40°M20°M00°M60°M60°M40°M20°W 0°E 20°E 40°E 60°E 80°E100° B20° B40°B60°E



160°M40°W20°M00°M60°W60°W40°W20°W 0°E 20°E 40°E 60°E 80°E100°B 20°B 40°E 60°E

160°W40°W20°W00°W60°W60°W40°W20°W 0°E 20°E 40°E 60°E 80°E100°B20°B40°B60

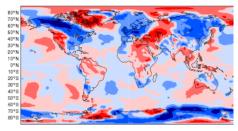


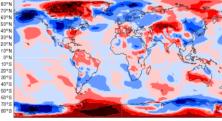
160°W40°W20°W00°W80°W60°W40°W20°W 0°E 20°E 40°E 60°E 80°E100° 820° 840°860°E

8-15 April

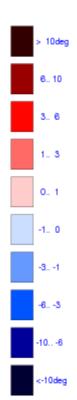


1-7 April





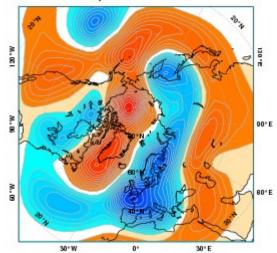
160°W40°W20°W00°W60°W60°W40°W20°W 0°E 20°E 40°E 60°E 80°E100°B20°B40°E60°E



# Z500 anomalies

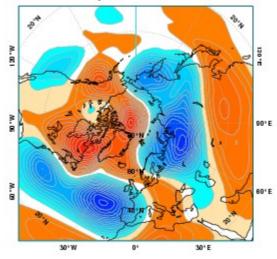
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11-17 March Observed anomaly: Mon 20130311- Sun 20130317

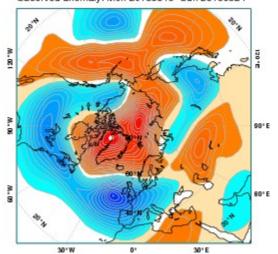


#### 4-10 March

Observed anomaly: Mon 20130304- Sun 20130310



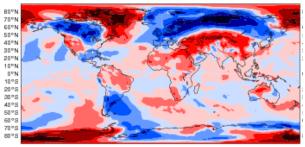




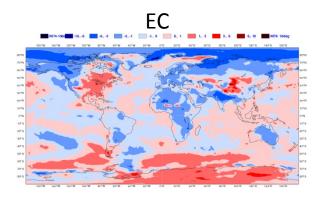
## 2mtm anomalies 14 Feb day 26-32

11 - 17 March

#### **ERA Interim**

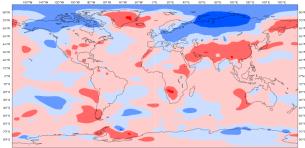


160°W40°W20°W00°W60°W60°W40°W20°W 0°E 20°E 40°E 60°E 80°E100°B20°B40°E60°E



#### JMA

#074-10de -10..6 -6..73 -3..-1 -1..0 0..1 1..3 3..6 6..10 #076-10de

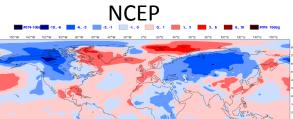


3\*09F 3\*05F 3\*05F 3\*05F 3\*05 3\*06 3\*05 3\*0 3\*0 3\*0 3\*0 3\*0 W\*05 W\*05 W\*06 W\*06 W\*06 W\*06 120\*E

# 



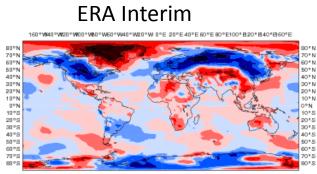
000 3 1021 3\*021 3\*021 3\*03 3\*08 3\*08 3\*04 3\*02 3\*0 W\*05 W\*05 W\*08 W\*08 W\*007 W\*051 W\*081



50°W 140°W 120°W 100°W 80°W 60°W 60°W 20°W 0°E 20°E 60°E 80°E 100°E 120°E 160°E 160°E 160°E 160°E

## 2mtm anomalies 21 Feb day 26-32

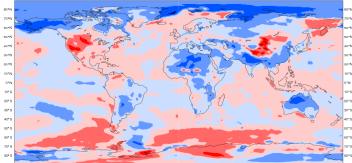
18 - 24 March



160°W40°W20°W00°W60°W60°W40°W20°W 0°E 20°E 40°E 60°E 80°E100°B20°B40°E160°E

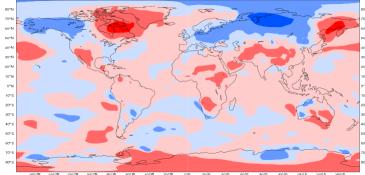
#### EC





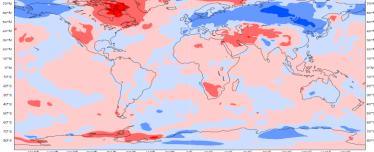
3\*031 3\*041 3\*051 3\*06 3\*08 3\*08 3\*08 3\*0 3\*0 3\*0 3\*0 W oz W\*05 W\*08 W\*08 W\*08 W\*081 W\*081

160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0°E 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E



#### ECMWF

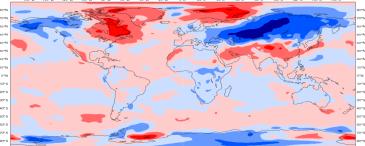




NCEP

#074-10de💶 -10.-6 🚺 -6\_ -3 🚺 -3.-1 📃 -1.. 0 📃 0.. 1 🜉 1.. 3 💶 3\_ 6 👥 6.\_ 10 💶 #076 10dee

160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0°E 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E

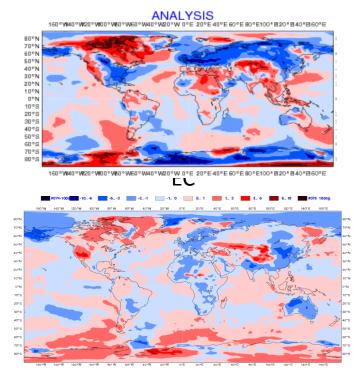


160°W 140°W 120°W 100°W 80°W 60°W 40°W 20°W 0°E 20°E 40°E 60°E 80°E 100°E 120°E 140°E 160°E

## 2mtm anomalies 28 Feb day 26-32

26 - 31 March

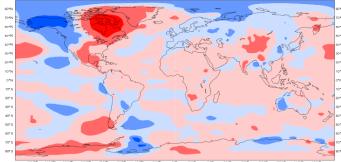




#### JMA

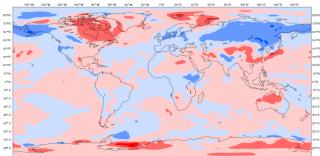
#074-10dd -10..-6 -3 -3..-1 -1.. 0 0.. 1 1.. 3 3...6 6...10 #076 10d



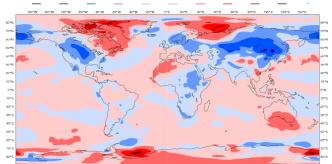


3-081 3-081 3-081 3-081 3-08 3-08 3-08 3-08 3-08 3-0 W-05 W-08 W-08 W-08 W-08 W-08 W-081 W-087

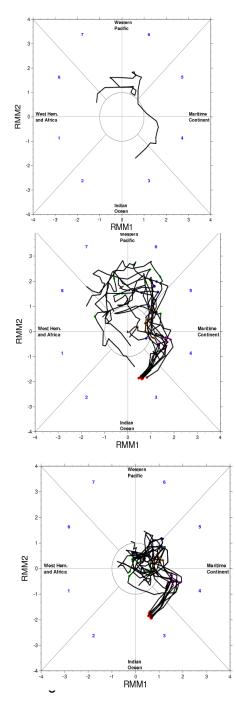
#### ECMWF





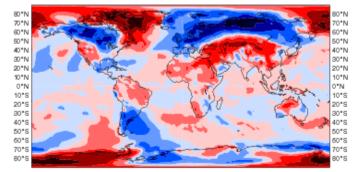


31081 31021 31021 31001 3108 3108 3108 3102 310 310 310 310 310



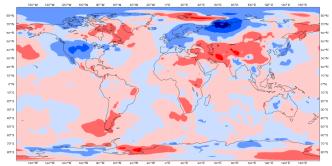
#### Cold March 2013 – 14 Feb 2013 - Day 26-32

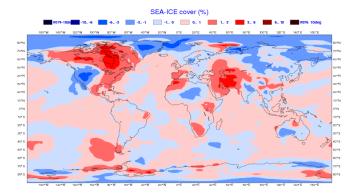
160 \* W40 \* W20 \* W00 \* W50 \* W50 \* W40 \* W20 \* W 0 \* E 20 \* E 40 \* E 60 \* E 80 \* E 100 \* E 20 \* E 40 \* E 60 \* E



160\*W40\*W20\*W00\*W50\*W60\*W40\*W20\*W/0\*E 20\*E 40\*E 60\*E 80\*E100\*E20\*E40\*E60\*E

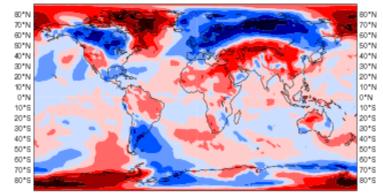






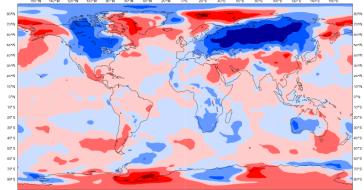
#### Cold March 2013 – 14 Feb 2013 - Day 26-32

160 \* W40 \* W20 \* W60 \* W60 \* W40 \* W20 \* W 0 \* E 20 \* E 40 \* E 60 \* E 80 \* E100 \* E 20 \* E 40 \* E 60 \* E

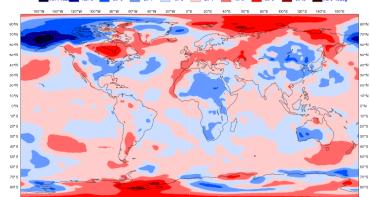


160\*W40\*W20\*W00\*W80\*W60\*W40\*W20\*W/0\*E 20\*E40\*E60\*E80\*E100\*E120\*E40\*E60\*E

#2774-10de - 10..-6 - 3 - 3 - 3..-1 - 1...0 - 0.. 1 - 1...3 - 3...6 - 6...10 - 4...10



90 140°W 120°W 100°W 80°W 40°W 20°W 0°E 20°E 40°E 80°E 30°C 120°E 120°E 140°E 160°E 120°E 140°E 160°E



160\*W 140\*W 120\*W 100\*W 80\*W 60\*W 40\*W 20\*W 0\*E 20\*E 40\*E 80\*E 100\*E 120\*E 140\*E 160\*E 160\*E

#### Western Pacific 5 RMM2 Maritime Continent West Hem. and Africa -1 -2 -3 -4 -4 -3 -2 RMM1 ż ġ. 1 Western Pacific 8 RMM2 West Hem. and Africa Maritime Continent 0 -2 -3 -India Ocean

RMM1

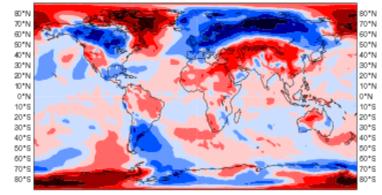
-3 -2

2 3

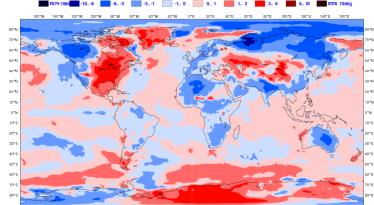
# NCEP

#### Cold March 2013 – 14 Feb 2013 - Day 26-32

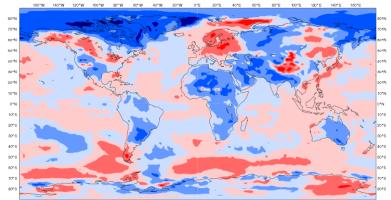
160\*W40\*W20\*W60\*W80\*W60\*W40\*W20\*W/0\*E 20\*E 40\*E 60\*E 80\*E100\*B20\*B40\*B60\*E

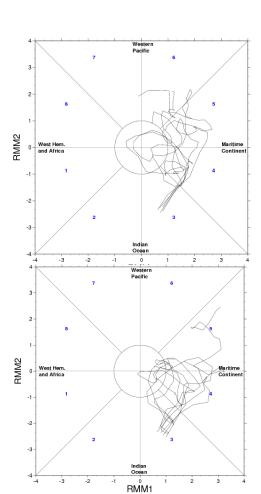


160 \* W40 \* W20 \* W60 \* W60 \* W40 \* W20 \* W 0\* E 20 \* E 40 \* E 60 \* E 80 \* E100 \* E 20 \* E 40 \* E 60 \* E



-1.0 0.1 1.3





EC