

## Monday

9:30 Welcome - Umberto Modigliani

9:45 [Introduction to computing resources](#) - Paul Dando  
HPCF, servers, data handling, LAN & WAN, web services

11:00 *Coffee*

11:30 [Introduction to the terminal](#) - Carsten Maaß/Call Desk

Linux desktop, Web access

12:00 [File systems](#) - Carsten Maaß

ecgate (and HPCF), NFS mounted file systems, practical

13:00 *Lunch*

14:00 [ECFS](#) - Carsten Maaß

introduction, store, retrieve, list, delete, use of ECFS commands in scripts, cron jobs, ecfsdir, practical

15:15 *Coffee*

15:45 [Submitting batch jobs](#) - Xavi Abellan

Concepts, sbatch to ecgate server, queue limits: sqos, job control: squeue, scontrol, scancel, practicals - [Solutions](#)

17:00 *Cocktails*

## Tuesday

9:30 [Mars intro](#) - Carsten Maaß

Introduction, concepts

11:00 *Coffee*

11:30 Mars intro - Carsten Maaß

basic examples, practical session

13:00 *Lunch*

14:00 [Compiling environment](#) - Xavi Abellan

Compilers, main options, word lengths, handling I/O, basic debugging, using libraries, [Practicals](#) - [Solutions](#)

15:15 *Coffee*

15:45 Compiling environment (continuation) - Xavi Abellan

17:00 Computer hall tour - User Support

## Wednesday

9:30 [GRIB decoding](#) - Paul Dando

overview of GRIB format, documentation available, grib\_api: grib\_dump, practicals

11:00 *Coffee*

11:30 GRIB decoding - Paul Dando

grib\_api: inspection tools, grib\_api manipulation tools, practicals

13:00 *Lunch*

14:00 GRIB API tools - P. Dando

grib\_api manipulation tools, introduction to Fortran90 interface, practical examples

15:15 *Coffee*

15:45 [Member State access](#) - Carsten Maaß

RMDCN & Internet, security token, interactive access, file transfers

## Thursday

9:30 [BufR decoding](#) - Dominique Lucas

overview of BUFR format, decoding routines, practical example

11:00 *Coffee*

11:30 Mars advanced - Dominique Lucas

[advanced use: compute, read, write, etc.](#), [Practical questions](#) / [Practical answers](#)

13:00 *Lunch*

14:00 [Field interpolation](#) - Paul Dando

overview, limitations

15:15 *Coffee*

15:45 Metview tutorial - Dev. Section

Metview – Lecture, Metview - Practical (see also the web-based version)

**Friday**

9:30 [ECaccess](#) - Dominique Lucas

Ssh, ftp, data transfers, web interface, monitoring tools, examples, [tutorial](#)

*11:00 Coffee*

11:30 [ECaccess](#) - Dominique Lucas

Tutorial

12:00 [Time Critical Applications](#) - Dominique Lucas

12:30 Questionnaire/Feedback - Umberto Modigliani

13:00 End