MONDAY 22nd May – Introduction Day

08.30 – 09.00	Registration	**Reception**
09.00 – 09:15	ECMWF Welcome by **Marcus Koehler** and **Adrian Hill** Local Welcome by **Mario Acosta**, **BSC**	**Auditorium**
09.15 – 09.30	Welcome by **Francisco Doblas Reyes** Director of Earth Sciences, **BSC** Welcome by **Stephen English** Deputy Director of Research, **ECMWF**	**Auditorium**

Morning Topic:

Intro to OpenIFS for new users, current developments (Talks)

09.30 – 10.30	**Marcus Koehl** and **Adrian Hill, ECMWF** Overview of OpenIFS: What is OpenIFS?	**Auditorium**
10.30 – 11.00	**Coffee**	**1st Floor Terrace**
11.00 – 12.00	**Richard Forbes, ECMWF** Physical processes in the IFS/OpenIFS covering both 43r3 and new developments in 48r1 (remote)	**Auditorium**
12.00 – 13.00	**Start of Computer Practicals:** First steps with OpenIFS: exploring the model installation	**Auditorium**
13.00 – 14.00	**Lunch**	**Foyer**

Intro to using OpenIFS (Computer Practicals)

14.00 – 15.30	How to run OpenIFS and control model behaviour with name lists	Auditorium
15.30 – 16.00	**Coffee**	1st Floor Terrace
16.00 – 17.00	Next steps: control run. Setting up a forecast experiment with OpenIFS	Auditorium
17.00 – 19:00	**Welcome drinks**	1st Floor Terrace

TUESDAY 23rd May – General Meteorology and Chemistry

8.55 – 9.00	Brief introduction of the day	Auditorium

Morning Topic:

General Meteorology with OpenIFS (Contributed talks)

9.00 – 9.30	**Victoria Sinclair, INAR, University of Helsinki** Aqua-planet simulations with OpenIFS to investigate how extra-tropical cyclones may change in the future	Auditorium
9.30 – 10.00	**Guokun Dai, Fudam University** Influences of stratospheric warming on Ural blocking events in winter.	Auditorium
10.00 – 10.30	**Pirkka Ollinaho, FMI** OpenIFS ensembles and a process-level model uncertainty representation in CY43R3, backporting development updates from IFS CY46R1	Auditorium

10.30 – 11.00	**Coffee**	1st Floor Terrace

Morning Topic:

Atmospheric chemistry in NWP (Talks)

11.00 – 11.45	**Johannes Flemming, ECMWF** CAMS, Atmospheric composition in NWP (remote)	Auditorium
11.45 – 12.30	**Vincent Huijnen, KNMI** Atmospheric composition in OpenIFS	Auditorium
12.30 – 13.00	**Marcus Koehler** and **Adrian Hill, ECMWF** Intro to using OpenIFS/AC	Auditorium
13.00 – 14.00	**Lunch**	Foyer

Afternoon Topic:

Chemistry modelling (Computer Practical)

14.00 – 15.30	Run OpenIFS/AC control case – gas phase chemistry. **Iain Russell & Sandor Kertesz, ECMWF** Metview (remote)	Auditorium
15.30 – 16.00	**Coffee**	1st Floor Terrace
16.00 – 17.00	Metview for OpenIFS/AC control case	Auditorium

WEDNESDAY 24th May – Aerosol and NWP

8.55 – 9.00	Brief introduction of the day	Auditorium

Morning Topic:

Modelling of Aerosol (Talks)

9.00 – 9.45	**Anthony Jones, Met Office** On the role of aerosol in NWP (remote)	Auditorium
9.45 – 10.15	**Lorenzo Silvestri, University of Perugia** Environmental conditions for Saharan dust intrusions and their influence on Medicanes development: testing the case of Medicane Qendresa by using OpenIFS/AC	Auditorium
10.15 – 11.00	**Coffee**	1st Floor Terrace
11.00 – 11.45	**Samuel Rémy,** Aerosol in OpenIFS/AC and CAMS and NWP (remote)	Auditorium
11.45 – 12.30	**Tommi Bergmann, FMI** Overview of the new M7 aerosol code Overview of double moment schemes	Auditorium
12.30 – 13.00	Aerosol discussion	Auditorium
13.00 – 14.00	**Lunch**	Foyer

Afternoon Topic:

Aerosol modelling in OpenIFS (Computer Practical)

14.00 – 14.45	Aerosol control and sensitivity Set off run with AER aerosol	Auditorium
14.45-15.30	**Marcus Koehler and Adrian Hill, ECMWF** OpenIFS Data Hub and Licensing changes	Auditorium

15.30 – 16.00	**Coffee**	1st Floor Terrace
16.00 – 16.30	Metview with Aerosol	Auditorium
20.30	**Social Dinner**	Fiskebar Restaurant

THURSDAY 25th May – EC-Earth: Climate and OpenIFS

8.55 – 9.00	Brief introduction of the day	Auditorium

Morning Topic:

Climate interactions modelling (Talks)

9.00 – 9.45	**Klaus Wyser, SMHI** Overview of EC-Earth and Plans	Auditorium
9.45 – 10.15	**Montserrat Costa Surós, BSC** Aerosol-sensitive Ice Nucleation Parameterizations in the EC-Earth3: evaluation and climate impacts	Auditorium
10.15 – 11.00	**Coffee**	1st Floor Terrace
11.00 – 11.45	**Carlos Pérez García-Pando, BSC** Overview of BSC research on atmospheric composition and climate interactions	Auditorium
11.45 – 12.30	**Anna Agusti Panareda, ECMWF** Carbon cycle in the IFS (remote)	Auditorium
12.30 – 12.45	**Etienne Tourigny, BSC** BSC activities with IFS/OpenIFS : model developments and simulating the global climate and carbon cycle	Auditorium

12.45 – 13.30	Visit of **MareNostrum**	
13.00 – 14.00	**Lunch**	**Foyer**
14.00 – 14.30	**Abhishek Savita, Geomar** OpenIFS Climate Sensitivity to Horizontal Resolution and Time Step	**Auditorrium**
14.30 – 15.00	**Daniel Köhler, University of Helsinky** Using OpenIFS to study the impact on mid-latitude circulation in scenarios of future polar sea ice	**Auditorrium**
15.00 – 15.30	**Coffee**	**1st Floor Terrace**

Afternoon Topic:
Future for OpenIFS

15.30 – 16.00	Update on the next release OpenIFS 48r1	**Auditorrium**
16.00 – 16.30	Discussion of future user needs	**Auditorium**

FRIDAY 26th May – Future for OpenIFS continued

9.15 – 9.30	Brief introduction of the day	**Auditorium**

Morning Topic:
Machine Learning applications and Future for OpenIFS

9.30 – 10.15	**Mihai Alexe, ECMWF** Machine learning for NWP and atmospheric composition: current status and outlook (remote)	**Auditorium**
10.15 – 11.00	**Coffee**	**1st Floor Terrace**

11.00 – 11.30	**Clément Bouvier, University of Helsinki** A large ensemble of baroclinic wave simulations generated with OpenIFS@home	**Auditorium**
11.30 – 12.30	Discussion of **OpenIFS future** (Part 2), machine learning and composition	**Auditorium**
12.30 – 13.00	Summary and close	**Auditorium**