

ECMWF OpenIFS



6th OpenIFS User Meeting, 22nd – 26th May 2023

Venue

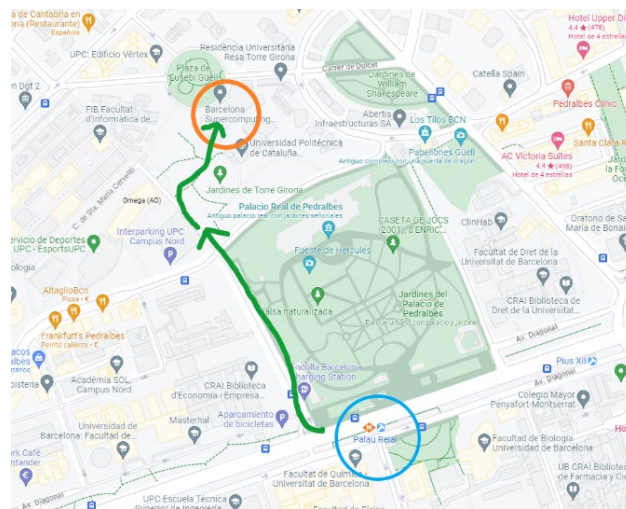
Barcelona Supercomputing Center
Plaça Eusebi Güell, 1-3
08034 Barcelona (Spain)

Tel. (+34) 93 413 77 16

[Click to see the Map](#)



Beside the main entrance there is an entrance from the park, if you come following the green arrow on the map (be ready for a small uphill climb!).



Entrance from the park



Public Transport



Bus: 7, 33



Metro: Stop Palau Reial

Access to the building

To enter the BSC premises you will be given a badge upon registration. This badge will allow you to go in and out of the building and to access different spaces.

Important:

- ❖ At the end of every day the badge must be left at the reception and will be recovered the next day at the registration desk.
- ❖ We kindly ask do not take pictures of MareNostrum 5.

Food

BSC will bear the costs for coffee and lunch breaks for each of the attendees. Therefore, attendees agree to renounce the corresponding per diem expenses.

Coffee Breaks

Terrace 1st Floor

Lunch

Foyer (Girona Building)

Dinner

The dinner will be organised on **Wednesday 24th of May at Fiskebar** restaurant at the port of Barcelona (20.30h)



Address:

Passeig d'Itaca, 3

08039 Barcelona

Tel: 936 09 36 92

MAP



Public Transport

L4 Metro: (Stop Barceloneta), **L3** (Stop Drassanes)

Monday 22nd of May Social Icebreaker will take place at
Foyer at **BSC (17.00-19.00h)**

MareNostrum Visit:

Thursday 25th of May from 12.45h to 13.30h

We wish you a pleasant stay!

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	1 st 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	1 st Floor Terrace
16.00 – 17.00	Next steps: control run. Setting up a forecast experiment with OpenIFS	Auditorium
17.00 – 19:00	Welcome drinks	1 st 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, Fudan 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	1 st 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	1 st 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
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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 Mediane 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
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Morning Topic:

Climate interactions modelling (Talks)

9.00 – 9.45	Klaus Wyser, SMHI	Auditorium
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Overview of EC-Earth and Plans

9.45 – 10.15	Montserrat Costa Surós, BSC	Auditorium
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Aerosol-sensitive Ice Nucleation Parameterizations in the EC-Earth3: evaluation and climate impacts

10.15 – 11.00	Coffee	1 st Floor Terrace
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11.00 – 11.45	Carlos Pérez García-Pando, BSC Overview of BSC research on atmospheric composition and climate interactions	Auditorium
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11.45 – 12.30	Anna Agustí Panareda, ECMWF Carbon cycle in the IFS (remote)	Auditorium
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12.30 – 12.45	Etienne Tourigny, BSC BSC activities with IFS/OpenIFS : model developments and simulating the global climate and carbon cycle	Auditorium
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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	Auditorium
14.30 – 15.00	Daniel Köhler, University of Helsinki Using OpenIFS to study the impact on mid-latitude circulation in scenarios of future polar sea ice	Auditorium
15.00 – 15.30	Coffee	1st Floor Terrace
Afternoon Topic: Future for OpenIFS		
15.30 – 16.00	Update on the next release OpenIFS 48r1	Auditorium
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
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**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