

# Operational Space Weather Fundamentals

13-17 May 2024

## PROGRAM

### Sunday, 12 May

20:00 Welcome dinner

### Monday, 13 May

08:45-09:45 Registration  
10:00-10:15 Welcome and School Introduction (**Course Directors**)  
10:15-11:00 Solar cycle activity and its forecasting (**Tom Berger**)  
11:00-11:30 Coffee Break  
11:30-12:15 Solar cycle activity and its forecasting (**Tom Berger**)  
12:15-13:00 Flares and CMEs and their forecasting (**Manolis Georgoulis**)  
13:00-14:30 Lunch  
14:30-15:15 Flares and CMEs and their forecasting (**Manolis Georgoulis**)  
15:15-16:15 Solar Radio bursts and their forecasting (**Mauro Messerotti**)  
16:15-16:45 Coffee Break  
16:45-17:30 Solar wind and transient structures (**Ian G. Richardson**)  
17:30-18:15 Solar wind and transient structures (**Emilia Kilpua**)  
19:30 Dinner  
21:00-23:00 Possible city tour

### Tuesday, 14 May

09:00-10:00 ICMEs, SEPs, CIRs, SIRs and their forecasting (**Emilia Kilpua**)  
10:00-11:00 ICMEs, SEPs, CIRs, SIRs and their forecasting (**Ian G. Richardson**)  
11:00-11:30 Coffee Break  
11:30-12:30 Lab activity (focus on solar and heliospheric weather) (**Petra Vanlommel**)  
12:30-14:15 Lunch  
14:15-18:00 Lab activity (focus on solar and heliospheric weather) (**Petra Vanlommel**)  
19:30 Dinner

### **Wednesday, 15 May**

- 9:00-10:00 The Geomagnetic Field and the Magnetosphere (**Domenico Di Mauro, Stefania Lepidi**)  
10:00-10:45 The Solar Wind – Magnetosphere Coupling, Radiation Belts, Plasmasphere (**Dedong Wang**)  
10:45-11:15 Coffee Break  
11:15-12:00 The Solar Wind – Magnetosphere Coupling, Radiation Belts, Plasmasphere (**Dedong Wang**)  
12:00-14:00 Lunch
- 14:45-19:00 Social event  
20:00 Dinner

### **Thursday, 16 May**

- 09:00-09:45 The Terrestrial Ionosphere (**Lucilla Alfonsi**)  
09:45-10:30 Effects of space weather on the Earth's ionosphere (**Kirsti Kauristie**)  
10:30-11:00 Coffee Break  
11:00-11:45 Effects of space weather on the Earth's ionosphere (**Kirsti Kauristie**)  
11:45-12:30 Effects of space weather on technological systems and society (**Antti Pulkinen**)  
12:30-14:15 Lunch  
14:15-15:00 Effects of space weather on technological systems and society (**Antti Pulkinen**)  
15:00-15:30 Coffee Break  
15:30-19:00 Lab activity (focus on magnetosphere, ionosphere, aviation, and ground based impact) (**Yana Maneva**)  
19:30 Dinner

### **Friday, 17 May**

- 09:00-10:00 Research to operations (R2O) and operations to research (O2R) (**Tom Berger**)  
10:00-11:00 Space weather: from expert to non-expert (**Tamitha Skov**)  
11:00-12:00 Coffee Break  
12:00-12:45 Careers in Space Weather (**Jinni Meehan**)  
12:45-13:00 Concluding remarks  
13:00-14:30 Lunch