



**ATARRI SC1 Training School Programme**  
**Solar, Aerosol and Dust Measurements & Modelling**  
 ECoE, Limassol | 29 June – 2 July 2026 | In-person

**Day 1 – Monday, 29 June (PMOD/WRC)**

*Solar & Aerosol Measurements, Calibration and Modelling*

Time	Activity
09:00 – 09:40	Opening & Introduction
09:40 – 10:10	Aerosol sun photometry basics – S. Kazadzis (30 min) + Discussion (10 min)
10:10 – 10:40	EarthCARE surface solar radiation estimates validation – S. Kazadzis, K. Papachristopoulou (20 min) + Discussion (10 min)
10:40 – 11:00	Coffee Break
11:00 – 11:30	CAMS aerosol modelling, validation and aerosol trends – A. Moustaka (20 min) + Discussion (10 min)
11:30 – 12:00	Radiative transfer modelling: use and key features - K. Papachristopoulou (20 min) + Discussion (10 min)
12:00 – 12:30	Aerosol typing methods using sun-photometers – A. Karanikolas (20 min) + Discussion (10 min)
12:30 – 14:00	Lunch Break
<b>CLOSED SESSIONS</b>	
14:00 – 14:20	ECoE 1: Assessing Satellite Cloud Optical Thickness Retrievals Using Ground-Based Pyranometer Measurements, Status Presentation (20 min)
14:20 – 14:40	ECoE 2: Assessing EarthCARE's aerosol products (MSI, ATLID) using ground based sunphotometer and lidar data over Cyprus, Status Presentation (20 min)
14:40 – 15:00	ECoE 3: Evaluation and Intercalibration of Various Low-Cost Sun-Photometers, Status Presentation (20 min)
15:00 – 15:30	Coffee Break
15:30 – 17:00	Discussion Sessions (3 subjects, ECoE 1-3), progress, manuscript drafting, future steps
17:15 – 18:15	Joint Discussion Session 1,2,3 – Updates & findings, future work, publication planning

**Day 2 – Tuesday, 30 June (GRASP)**

*Aerosol Retrievals and Advanced Remote Sensing Applications*

Time	Activity
09:00 – 09:45	GRASP framework fundamentals and applications + Discussion (A. Lopatin)
09:45 – 10:30	Aerosol microphysical properties retrieval in GRASP framework + Discussion (A. Lopatin)
10:30 – 11:00	Coffee Break
11:00 – 11:45	Synergistic use of multi-sensor observations + Discussion (A. Lopatin)
11:45 – 12:30	Inversion strategies of desert dust microphysical retrievals + Discussion (A. Lopatin)
12:30 – 14:00	Lunch Break
<b>CLOSED SESSIONS</b>	
14:00 – 15:30	Practical Session: GRASP retrieval from synergy of ground-based passive and active observations
15:30 – 16:00	Coffee Break
16:00 – 17:30	Practical Session: Use of the DIVA platform for satellite Cal/Val
17:30 – 18:00	Discussion of Results & Feedback





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**Day 3 – Wednesday, 1 July (BSC)**

*Dust Modelling, Forecasting and Atmospheric Processes*

Time	Activity
09:00 – 09:45	Mineralogy of dust (30 mins) + Discussion (15 mins) – Carlos Pérez
09:45 – 10:30	Coarse and super-coarse dust (30 mins) + Discussion (15 mins) – Carlos Pérez
10:30 – 11:00	Coffee Break
11:00 – 11:45	Dust optical properties (30 mins) + Discussion (15 mins) - Vincenzo Obiso
11:45 – 12:30	Dust forecast products and evaluation (30 mins) + Discussion (15 mins) – Emanuele Emili
12:30 – 14:00	Lunch Break
<b>CLOSED SESSIONS</b>	
14:00 – 15:30	Practical Sessions: Dust multi-model forecast evaluation Overview and introduction to practical sessions (15 mins) – Tito Vintimilla Group sessions - ECoE
15:30 – 16:00	Coffee Break
16:00 – 17:30	Group Discussions and Presentation of Results - All

**Day 4 – Thursday – CLOSED SESSIONS**

*Synthesis, WP8 Discussions & Future Actions*

Time	Activity
<b>CLOSED SESSIONS</b>	
09:00 – 10:00	Summary of Scientific Sessions
10:00 – 11:00	WP8 Discussions – Exploratory Research Project – S. Kazadzis, all
11:00 – 11:30	Coffee Break
11:30 – 12:30	EV2 Meeting
12:30 – 13:30	Open Discussion: Future collaborations, gaps, and recommendations
13:30 – 14:00	Closing Remarks

