Aerosol Remote Sensing (ARS-ARES) workshop
6 – 8 July 2020

Note: times are CEST (UTC + 2)

Monday, 6 July 2020

9:00–10:30

EARLINET/ACTRIS analysis (chairs: Doina Nicolae, Lucia Mona)

• Coordinated studies Jan-May 2020
• Lessons learnt during the NRT campaign in May
• Launch of the re-analysis

10:30 –11:00 Coffee break

11:00 – 12:30

SCC as the single, centralized data processing system (chair: Giuseppe d’Amico)

• Near Real-Time observations performed during May 2020 at the SIRTA Station in Palaiseau: Feedback regarding advantages of automatic raw dataset submission and quality control of Single Calculus Chain (SCC) products supported by a centralized data-center for some or all ACTRIS stations (Chris Pietras)

12:30 –13:30 Lunch break

13:30 – 15:00

Lidar-sunphotometer synergy: connection between GARRLiC and SCC (chair: Philippe Goloub)

• Towards automated processes in the frame of lidar and photometer networks: difficulties and lessons learnt (N. Pascal, L. Miladi, F. Ducos, I. Popovici, Q. Hu, S. Aubert, P. Goloub, B. Torres, A. Lopatin, O. Dubovik, L. Mona, G. Damico)
• Discussion on GARRLiC analysis for the COVID-19 campaign (Alexandra Tsekeri, on behalf of the EARLINET WG on scattering databases and retrieval algorithms)

15:00 – 15:30 Coffee break

15:30 – 17:00

QA/QC of the lidar measurements (chair: Volker Freudenthaler)
Tuesday, 7 July 2020

9:00–10:30

**Studies at individual stations** (chairs: Ulla Wandinger, Adolfo Comerón)

- Overview of lidar measurements at Clermont-Ferrand during the COVID-19 2020 period (Jean-Luc Baray, Kruthika Eswaran, Patrick Fréville)
- Investigating variations in the aerosol load during the COVID-19 lockdown period in Greece using the remote sensing infrastructure of PANACEA (Station: LAP-AUTH, Thessaloniki) (Nikos Siomos et al.)
- Effect of COVID-19-related lockdown on the optical properties in the atmospheric column at the Barcelona EARLINET station (Michaël Sicard, Alejandro Rodríguez-Gómez, Constantino Muñoz-Porcar, Alex Zenteno, Adolfo Comerón)
- Differences in aerosol load in Antikythera station due to COVID-19 shut down (Eleni Marinou & NOA team)

10:30 – 11:00 **Coffee break**

11:00 – 12:30

**Studies at individual stations** (chairs: Ulla Wandinger, Adolfo Comerón)

- On significance of the difference in aerosol properties profiles during COVID-19 lockdown over Warsaw (I. Stachlewska, D. Szczechanik, D. Wang, L. Janicka, R. Fortuna, W. Kumala)
- Using GOME-2/MetOp AAI and AAH products for flagging elevated aerosol layers from natural sources during the COVID-19 campaign. Development of a tool for EARLINET stations (Konstantinos Michaildis)
- Automatic typing of the aerosol load observed over Europe during the COVID-19 campaign - Did something change in the aerosol types during the lockdown? (Kalliopi Voudouri et al.)
- Can modelling provide estimates for how emissions and ambient concentrations of anthropogenic black carbon may have changed since the COVID-19 outbreak? A case study: Bucharest (Camelia Talianu, Doina Nicolae and RADO team)

12:30 – 13:30 **Lunch break**
Studies at individual stations (chairs: Ulla Wandinger, Adolfo Comerón)

- GRASP retrievals from Belsk (Aleksander Pietruczuk)
- Constraining Lidar Retrievals with Solar and Lunar Photometry Measurements at a Central Mediterranean Site (S. Romano, F. De Tomasi, M.R. Perrone)
- Advection of smoke from Eastern European fires to Leipzig in March/April 2020: Air mass analysis and layer identification (Holger Baars et al.)
- Atmospheric pollen observations for May 2019 and 2020 in Kuopio, Finland (Xiaoxia Shang, Mika Komppula et al.)

Wednesday, 8 July 2020

9:00 – 10:30 Planned publications (chairs: Dimitris Balis, Vassilis Amiridis, Iwona Stachlewska)

10:30 – 11:00 Coffee break

11:00 – 12:30 Aeolus Cal/Val activities (chairs: Vassilis Amiridis, Holger Baars)

12:30 End of the workshop