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-sunphotomer 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. Szczepanik, D. Wang, L. Janicka, R. Fortuna, W. Kumala)
- Ground-based and satellite measurements of air pollutants over Athens, Greece, during the COVID-19 Lockdown 2020 (A. Papayannis, M. Mylonaki, C.A. Papanikolaou, R. Foskinis, P. Kokkalis, O. Soupiona, E. Kralli, D. Anagnou)
- 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 Michailidis)
- 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)

1. Intro on Aeolus CalVal and that EARLINET has a running project for ESA (Holger, 5 minutes)
2. Ongoing Cal/Val activities:
   - EVAA (Holger, 5 min)
   - VADAM (Antonis, 5 min)
   - First EVE measurements (NOA, Peristera, 5min)
   - Barcelona activities (Michael, 5 min)
   - Current Aeolus cal/val activities at Granada and Évora stations (5 min)
3. Strategy for reporting to ESA (Holger and Antonis) 10 min
4. Discussion on CalVal strategy and aspects to be considered (Vassilis, 10 min)
5. Optional: Introduction for confluence (the ESA Portal)

12:30 – 13:30

Campaign data re-analysis launching

13:30 End of the workshop