

Report on the outcomes of a Virtual Mobility¹

Action number: CA21119

Grantee name: Anca Nemuc

Virtual Mobility Details

Title: Report on the training School on solar, lunar, stellar radiation-based techniques.

Start and end date: 21/09/2024 to 15/10/2024

Description of the work carried out during the VM

The work of this collaborative initiative included online meetings and email exchanges of WG5 members and Science communication manager Dr Ioannis-Panagiotis Raptis from National and Kapodistrian University of Athens, Greece along with Kyriakoula Papachristopoulou from the National Observatory of Athens (NOA), Athens, Greece and with the main organiser of the training school Lionel Doppler DWD, Lindenberg Meteorological Observatory, Germany. Anca Nemuc has been drafting, editing and finalizing the D5.1 Deliverable of HARMONIA. The document includes descriptions of the attendees and lecturers, the school's objective, and the primary activities during the networking event "Sky Over Berlin", during 8-10 April 2024 organised by Deutscher Wetterdienst / Meteorologisches Observatorium Lindenberg – Richard-Aßmann-Observatorium and Freie Universität Berlin / Institut für Meteorologie.

Lectures related to solar, lunar, stellar radiation-based techniques are:






- *ACTRIS Calibration of sunphotometers* by Stelios Kazadzis and Carlos Toledano
- *CIMEL sunphotometer* by Stephane Victori
- *PFR-PSR photometers* by Natalia Kouremeti
- *Sky camera use for AOD retrieval* by Roberto Roman
- *Synergies Raman Lidar and Photometer in Ny-Alesund* by Christoph Ritter
- *Stellar photometers* by Liviu Ivanescu , Karl-Heinz Schulz
- *Lunar Photometry* by Africa Baretto and Natalia Kouremeti.

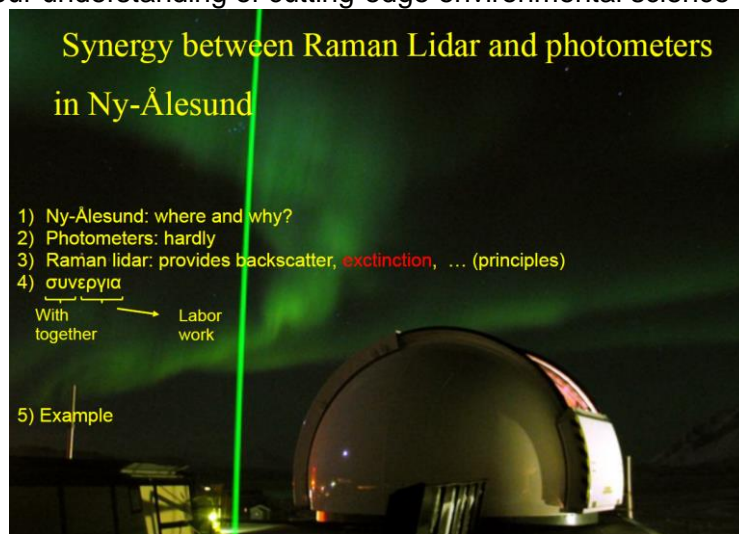
Short description of the different subjects presented during the training school have been compiled (title of the presentation and a summary, along with a representative figure/graph, scheme).






¹ This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the GH for payment of the Grant.

All presentations are available now and accessible via the following link:
<https://www.dropbox.com/scl/fi/1sgdffowwqkxjscvawuxd/Sky-Over-Berlin-Presentations.zip?rlkey=kz0ii46mgld9rscum18z58r1&e=1&dl=0>

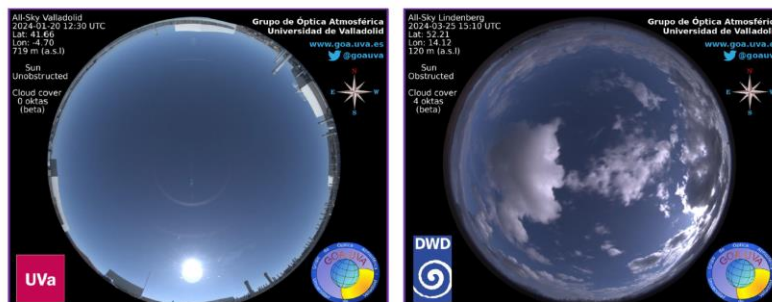
Short text announcements have been composed to be posted on online media platforms of HARMONIA to draw attention to these presentations. Here are few examples:

-  ****Download Now: Lecture on Synergies of Raman Lidar and Photometer in Ny-Ålesund!**** 
- Join Christoph Ritter as he explores the innovative techniques and findings from his latest research in Ny-Ålesund. This lecture delves into the synergy between Raman Lidar and photometry, offering insights into atmospheric studies.
-  **Access the lecture [here](#)**
- Enhance your understanding of cutting-edge environmental science today!  






-  ****Download the Lecture: Sky Camera Use for AOD Retrieval by Roberto Roman!**** 
- Dive into the innovative techniques of AOD retrieval using sky cameras with expert Roberto Roman. Discover how this technology enhances our understanding of atmospheric dynamics.
-  **Access the lecture [here](#)**
- Expand your knowledge and explore the skies today!  

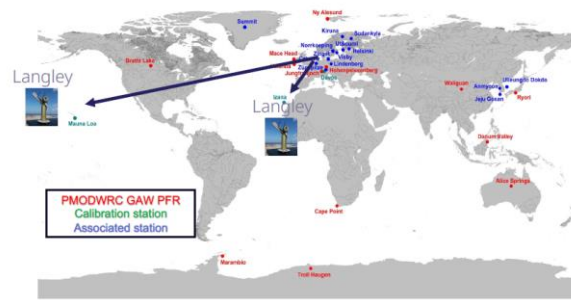
All-Sky Cameras








-  **Download the Lecture: ACTRIS Calibration of Sun Photometers by Stelios Kazadzis and Carlos Toledano!** 

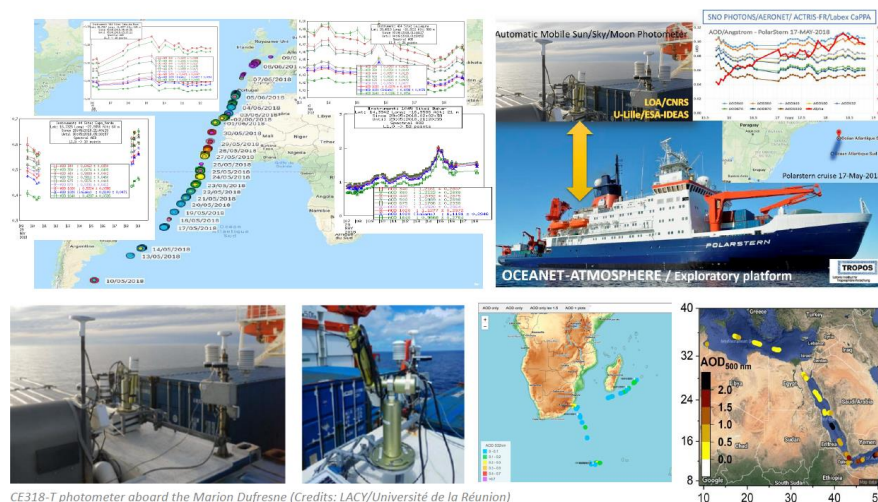
- Join experts Stelios Kazadzis and Carlos Toledano as they discuss the essential techniques for calibrating sun photometers within the ACTRIS framework. Enhance your understanding of atmospheric monitoring!
-  Access the lecture [here](#)
- Don't miss this opportunity to deepen your knowledge in atmospheric science!  

Reference Network Photometer performs the langley calibration at a high altitude site



-  **Download the Lecture: CIMEL Sun Photometer Technique by Stephane Victori!** 
- Explore the innovative CIMEL sun photometer techniques with expert Stephane Victori. Learn how this powerful tool contributes to atmospheric research and monitoring.
-  Access the lecture [here](#)
- Expand your expertise in atmospheric science today!  

Examples of results



CE318-T photometer aboard the Marion Dufresne (Credits: LACY/Université de la Réunion)

Description of the VM main achievements and planned follow-up activities

All planned goals and expected outcomes of this VM have been achieved. Future collaborations within the WG5-Dissemination will continue during the next grant period. Advertisements of the presentations done during the training school will be regularly posted online. The main output is the report on the training School on solar, lunar, stellar radiation-based techniques organised by HARMONIA, supporting the dissemination activities, promoting the current results and outcomes of the Action inside and outside the HARMONIA consortium. The results of this activity contribute to the objective of HARMONIA Action:

- “Establish a mechanism in order to: introduce to aerosol scientists and instrument users, the outcome of the homogenization, the SOPs and the new techniques and measurement improvements.”

The report is included in the HARMONIA deliverable:

- “D5.1: Share the recordings and the presentations of the training School on solar, lunar, stellar radiation-based techniques”

This grant has also contributed to the COST policy of excellence and inclusiveness since the grantee is a female scientist from an ITC country, collaborating with ECI scientists from an ITC country (Greece).