

# HARMONIA newsletter

December 2022

This is the first newsletter of the COST action “International network for harmonisation of atmospheric aerosol retrievals from ground based photometers”, CA21119. The newsletter aims to inform you about activities of the network and new in our scientific community

## Sorbetto Winter School



We are pleased to announce the Sorbetto winter school to be held in Rome, Italy (ESA-ESRIN) from 6 to 10 February 2023. Organised by the EMPIR project Metrology of Aerosol Optical Properties (MAPP) and COST action Harmonia and sponsored by ESA .

### **Aims of the School are**

- \* forming young scientists providing them an overview of the current status of solar radiation based techniques, a solid theoretical base, and hands-on experimental activities
- \* building a bridge among International communities involved in atmospheric science for establishing and reinforcing future cooperation on the solar radiation based techniques for atmospheric observations and satellite validation.

COST ACTION Harmonia will cover the travel expenses (up to 400 euro per person) and a 400 euro compensation (for covering accommodation and daily expenses) for 10 students, giving priority to Inclusiveness Target Countries (ITC) near neighbor Countries(NNC) and young researchers.

*To apply, send your request to [sorbetto3@libero.it](mailto:sorbetto3@libero.it) with Name and date of birth, Current Affiliation, A statement on your personal benefit from participating in Sorbetto*

## STSM, ITC and VM calls

### **STSM**

Short Term Scientific Missions (STSM) are aimed at strengthening existing networks and fostering collaborations by facilitating researchers and scholars participating in the Action to visit an institution in another country. An STSM should specifically contribute to the objectives of Harmonia.

## STSM Call

### LITC CONFERENCE GRANTS

ITC Conference Grants are aimed to support PhD students and Early Career Investigators (ECI) researchers from participating Inclusiveness Target Countries (ITCs) to attend international science and technology related conferences not specifically organised by the COST Action. Inclusiveness Target Countries (ITCs) currently in Harmonia: Albania, Bulgaria, Cyprus, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, North Macedonia, Poland, Portugal, Romania, Serbia, Slovakia, Turkey, Ukraine.

## ITC Conferences Call

### Virtual Mobility (VM) GRANTS

Virtual Mobility (VM) consists of a collaboration in a virtual setting among researchers or innovators within the COST Action, to exchange knowledge and carry out specific work for a determined period. A VM should specifically contribute to the Harmonia objectives.

More details about the eligibility criteria, how to apply and details abouts the grants can be found in the open calls in the website.

## VM Call

Grants Coordinators: Dr Pavla Dagsson-Waldhauserova (pavla@lbhi.is) and Dr Maria João Costa (mjcosta@uevora.pt)

Relevant dates:

- Deadline for applications: 20 January 2023
- Outcomes: 10 days after deadline
- Conferences dates: must take place before 15 October 2023

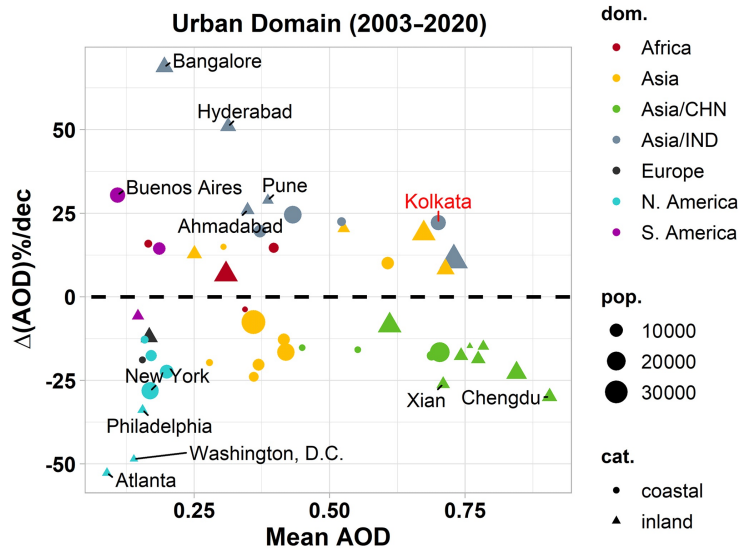
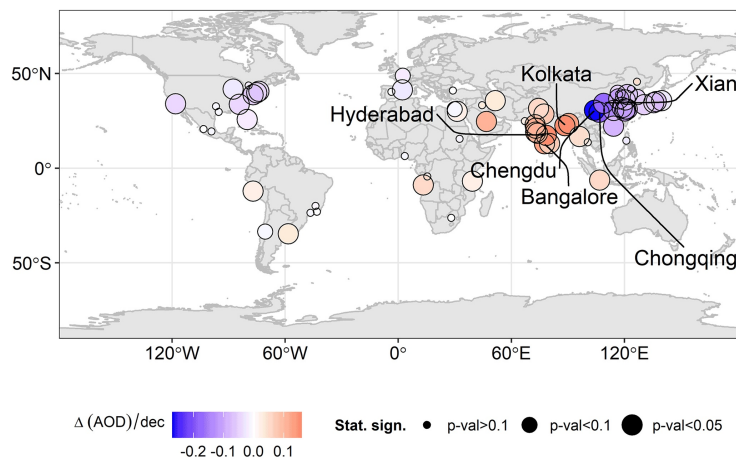
## New Publications

### Aerosol optical depth regime over megacities of the world

Currently, 55% of the world's population resides in urban areas and this number is projected to increase to 70% by 2050. Megacities' air quality is determined by atmospheric aerosols. In this work the spatial and temporal variability of urban aerosol state of 81 cities with a population over 5 million, relying on daily satellite-based aerosol optical depth (AOD) retrievals, derived at fine spatial resolution (0.1 deg<sup>2</sup>), over an 18-year period spanning from 2003 to 2020 was investigated. European and American cities have lower aerosol loads compared to African and Asian cities. For European, North American and East Asian cities, aerosols are decreasing over time, especially in China and the US. In the remaining cities, aerosol loads are increasing, particularly in India.

The study highlights the vital and essential contribution of space-borne products to monitor aerosol burden over megacities of the planet towards fulfilling the United Nations Sustainable Development Goal of "sustainable cities and communities", dealing with urban air quality.

More details: <https://doi.org/10.5194/acp-22-15703-2022>



## Training School and Workshop on Dust Aerosol Detection and Monitoring

We are glad to announce that applications are now open for the third Joint Training School and Workshop on Dust Aerosol Detection and Monitoring 21-23 February and 28 February-2 March 2023.

This online training school aims to build capacity and improve skills in aerosol detection and monitoring for users from research and academia, and meteorological and transnational agencies, with a regional focus on Europe, North Africa, Middle East and Sahelian Africa. However, attendance is open to all countries. The school will offer lectures from scientific experts and hands-on problem-based practicals.

Attendance will be limited to a selected number of participants. The application form is now available under Apply for Courses on the EUMETSAT training platform. Please apply by 11 January 2023.

The training school is jointly organised by EUMETSAT, WMO SDS-WAS Regional Center (which is managed by the Barcelona Supercomputing Center, BSC, and the Spanish Meteorological State Agency, AEMET) and ACTRIS, with the support of Copernicus

[More details](#)

TRAINING COURSE

# JOINT TRAINING SCHOOL AND WORKSHOP ON DUST AEROSOL DETECTION AND MONITORING

21 FEBRUARY - 2 MARCH 2023

Don't forget to invite anyone interested to join the action and this newsletter.

Provide any interesting information about publications, events etc for future newsletters at [harmonia@harmonia-cost.eu](mailto:harmonia@harmonia-cost.eu)

Happy Holidays and Happy New year



## HARMONIA

COST (European Cooperation in Science and Technology) is a funding agency for research and innovation networks. Our Actions help connect research initiatives across Europe and enable scientists to grow their ideas by sharing them with their peers. This boosts their research, career and innovation.



Funded by the European Union

This email was sent to {{contact.EMAIL}}  
You've received it because you've subscribed to our newsletter.

[View in browser](#) | [Unsubscribe](#)

