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Project consortium SmartAQnet – Aerosol Akademie

Newsletter SmartAQnet

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Smart Air Quality Network

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Project management

Organisation, participation and protocol of the monthly Jour Fixe of the consortium and the workshop Network Planning including first overview and results of the 1. IOP (26-27/09/2018) on 09 October 2018 in Augsburg.

Data mining and campaigns

- The study of the North-South profile of mixing layer height in Augsburg on the basis of ceilometer measurements at IGUA, Aerosol measurement station at HSA and at the Klostergarten is continued and will be used by the consortium as well as during the second IOP (10 - 18/11/2018).
- Participation in the Workshop Taskforces Network Planning, SOPs / Meta Data on 09.10.2018
- Completion of five Alphasense OPC-N3 for mobile use.
- Preparations for the IOP in the period 12.11. to 23.11.18: Inquiries to the owners for the ascent permission at the two locations Prinzregentenplatz and Kongress am Park were provided. The climbs at these two sites were approved by the DFS up to a height of 1000m. To attract volunteers, posters were posted throughout the university.

Data aggregation and analyses

The sub-contract of KIT/IMK-IFU with ZAE to collect data about residential heating is ongoing including Mr. Fichtl of the chimney cleaner company Augsburg/Schwaben who provides the data collection by the 26 regional chimney cleaner masters (BKM).

- Large aggregates of high PM 1 particle number concentrations were mainly localized around industrial and heavy traffic zones, while single peak events were detected upon passage by smokers.
- The sensitivity of the low cost sensors (SDS011 and ESP 32) with reference to DustTrak DRX as shown in **Fehler! Verweisquelle konnte nicht gefunden werden..** However, the stability of data acquisition by the low cost sensors posed a bigger challenge to continuous measurement.

First evaluations of the bicycle measurements by University Augsburg were made and at the annual meeting of the Arbeitskreis Klima from 26.10. presented until 28.10.2018. In the picture all bicycle measurements made so far are shown. The measurements were averaged in a 20 x 20 m grid.

Data application

Now, there are no news available. However, we will keep you informed.

Data oriented dissemination and application

An international workshop of the project is under preparation on 04 and 05 December at HMGU in Neuherberg and newest working results mainly from numerical simulation of air pollution exposure will be presented.

Further information