



ACTRIS - CAIS-ECAC - Aerosol In-Situ Course 2026

Fundamentals & Methods for Aerosol Sampling and Physical & Chemical In-Situ Measurements

Date: Saturday March 14 to Friday March 20, 2026
Venue: National Atmospheric Observatory Kosetice, Czech Republic

Course contents & learning outcomes:

The lecture course provides fundamental knowledge in aerosol sampling & conditioning as well as methods for in-situ measurements of physical and chemical aerosol variables, covering all ACTRIS aerosol in-situ variables. Furthermore, a visit of the National Atmospheric Observatory Kosetice and hands-on training for few aerosol instruments are part of the course.

The course will be held face-to-face at the National Atmospheric Observatory Kosetice in Czech Republic. Interactive lectures will be given Sunday to Thursday from 8.00 to 17.00. After dinner, there will be time to meet for leisure activities or discuss with the lecturers.

All participants will obtain a certificate for their participation.

Target group:

The course is intended to people related to the ACTRIS aerosol in-situ measurements at the National Facilities. This could be technicians, advanced master students, doctoral students, as well as scientists. However, the course is also open to people related to CARGO-ACT, MI-TRAP, GAW, and other external (non-ACTRIS) users.

Lectures are given in English. Good communication skills in English are required.

Due to the limited accommodation in Kosetice, only 16 participants can be accepted.

Lecturers:

The course is coordinated by CAIS-ECAC. Lectures are given by top-level experts from the ACTRIS central facility for aerosol in-situ measurements.

Course fee, accommodation, meals & travel:

- The course fee is 550€ per participant, including accommodation in two-bed rooms, all meals (breakfast, lunch, dinner), and the transportation from and to Prague on Saturday March 14 and Friday March 20, 2026, respectively.
- The fee must be paid prior to the course – latest until February 20 2026.

Course organizer:

The course is organized by CAIS-ECAC & ACTRIS Czech Republic.

For any additional information about the course look at the CAIS-ECAC website, or please contact Alfred Wiedensohler (alfred.wiedensohler@tropos.de)

Application:

For the application, please fill the form at:

<https://actris-ecac.eu/summer-school-2026.php>

The application deadline is **January 23, 2026**. We will inform applicants about the acceptance latest by **January 30, 2026**.

Preliminary Program:

Time schedule Kostice CAIS-ECAC Aerosol Course 2026							
Day time	Saturday March 14, 2026	Sunday March 15, 2026	Monday March 16, 2026	Tuesday March 17, 2026	Wednesday March 18, 2026	Thursday March 19, 2026	Friday March 20, 2026
07.00 - 07.30		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
07.30 - 08.00		Introduction & Discussion Atmospheric Aerosol AW	Impactor JPP	Neutral Cluster & Air Ion Spectrometer KL	Mass Concentration Heavy Metals & Inorganic Elements FG	Aerosol Chemical Speciation Monitor & Aerosol Mass Spectrometer EF	
08.00 - 08.30		General Definitions AW	Particle Filter JPP	Particle Size Magnifier KL		Discussion EF	
08.30 - 09.00			Discussion JPP	Artifacts & Thermodesorption JPP	Cloud Condensation Nuclei Counter SH	General Sampling Considerations AW	
09.00 - 09.30		Mechanical Properties AW	Particle Charging AW		Discussion AW+JO		
09.30 - 10.00		Lunch	Lunch	Lunch	Lunch	Lunch	
10.00 - 10.30		Particle Diameter Definitions AW	Electrical Particle Mobility AW		Integrating Nephelometer AW	Data Handling NN	
10.30 - 11.00		Particle Size Distribution JO	Differential Mobility Analyzer AW	Organic Tracers FM	Absorption Photometer AW	Discussion AW+JO	
11.00 - 11.30			Mobility Particle Size Spectrometer AW			Examination AW+JO	
11.30 - 12.00		Coffee break	Coffee break	Coffee break	Coffee break	Coffee break	
12.00 - 12.30		Condensation Particle Counter JO	Mobility Particle Size Spectrometer AW	Aerodynamic Particle Size Spectrometer JO	Hands-On Training JO	Correction & discussion exam	
12.30 - 13.00		Discussion AW+JO	Discussion AW+JO+JPP	Hands-On Training JO			
13.00 - 13.30		Free time	Free time	Free time	Free time		
13.30 - 14.00		Dinner	Dinner	Dinner	Dinner	Dinner	
14.00 - 14.30							
14.30 - 15.00							
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17.30 - 18.00							
18.00 - 18.30							
18.30 - 19.00							

Fundamental

Microphysical

Sampling

Optical

Chemical

Discussion & Hands-On-Training

Examination

Meals

Data Handling

AW: Alfred Wiedensohler

JO: Jakub Ondracek

KL: Katrianne Lehtipalo

SH: Silvia Henning

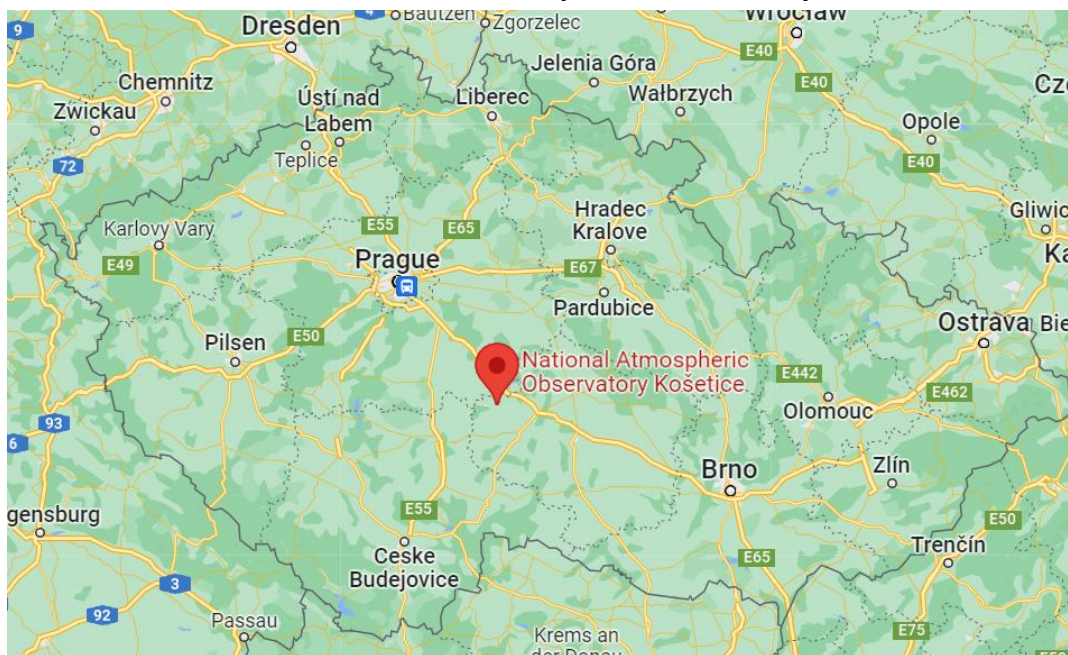
JPP: Jean-Philippe Putaud

FM: Falk Mothes

EF: Evelyn Freney

FG: Fabio Giardi

Location of the National Atmospheric Observatory Kosetice:



<https://www.actris-ri.cz/narodni-atmosfericka-observator-kosetice>