

INFRASTRUCTURE KOŠETICE–KŘEŠÍN U PACOVA, CZECH REPUBLIC

offers Trans-National Access within ACTRIS-2 project



the background level of air quality in the Czech Republic and Central Europe

Co-ordinates: N 49°35', E 15°05'

Elevation above mean sea-level: 534 m

Local topography: Agricultural countryside outside of settlement



Infrastructure is operated by:

CHMI - Czech Hydrometeorological Institute - meteorological and air quality measurements

CVGZ - Global Change Research Centre of the Czech Academy of Sciences operates the Atmospheric and Ecosystem Stations - GHGs at tall tower (250 m) measurements, selected aerosol measurements

ICPF - Institute of Chemical Process Fundamentals - special aerosol measurements

RECETOX - Research Centre for Toxic Compounds in the Environment - focused on persistent organic pollutants (POPs)

Offered access to measurements:

- in-situ chemical, and physical properties of aerosols (particle number size distribution, aerosol light absorption, aerosol light scattering, OC/EC, size-resolved chemical composition, size-resolved aerosol hygroscopicity)
- vertical gradient of GHGs (CO₂, CH₄, CO, N₂O), air quality (O₃, Hg) and meteorological parameters at 10, 50, 125, 230 and 250 m, flask sampling of ¹³C and ¹⁸O in CO₂, H₂, N₂O, SF₆, O₂/N₂, CO₂, CH₄, CO, ¹⁴C in CO₂ – at 250 m
- Ecosystem Station (eddy covariance system measuring energy and matter fluxes; net radiation, PAR radiation and meteo. parameters)
- air quality automatic measurements (NO-NO₂-NO_x, ozone, SO₂, CO, PM₁₀, PM_{2.5}), air quality manual measurements (VOCs, PAHs, PM₁₀, PM_{2.5}, Basic cations)
- precipitation and meteorology measurements

Technical support for: installation of new devices, data flow and operation and maintenance of instruments

Scientific staff will help with the validation, evaluation and multidisciplinary interpretation of measured data

Open access to the Atmospheric Station,
access to Central Laboratories of CHMI

Administrative support: free wi-fi, copy and scanning machines, administrative issues, administration of open access, English communication skills

Accommodation: available at the Observatory Košetice and in the close vicinity of Prague airport



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Research Centre
for Toxic Compounds
in the Environment

http://www.chmi.cz/files/kosetice_en.html

<http://www.czechglobe.cz/media/AS%20Kresin%20u%20Pacova%20flyer%202014.pdf>