

Kyrgyzstan Cholpon-Ata

Atmospheric Domain

“The continuous greenhouse gases measurements at Cholpon-Ata provided by Kyrgyzhydromet are a first step towards an observationally based independent assessment of greenhouse gas emissions in Kyrgyzstan.”

– Zarylbek Itibaev, Director Kyrgyzhydromet



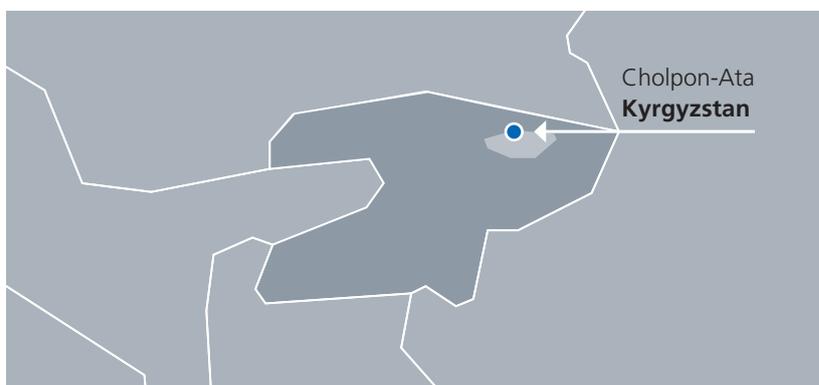
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CATCOS 
Capacity Building and Twinning for Climate Observing Systems

The Cholpon-Ata Lake Observatory is located on the northern shore of Lake Issyk-Kul and is surrounded by the mountain ranges of eastern Kyrgyzstan. Basic meteorological measurements at the site already started in 1928. Despite the proximity of human settlement, the regular airflow from Lake Issyk-Kul ensures that greenhouse gas measurements are representative for a geographically large area in the region.



As part of the CATCOS Project, the Cholpon-Ata observatory is complemented with greenhouse gas measurements in a joint effort by the Agency of Hydrometeorology of the Kyrgyz Republic (Kyrgyzhydromet) and the Swiss Federal Laboratories for Materials Science and Technology (Empa). After the successful installation of the measuring equipment, standard data processing methods are implemented to assure the submission of high-quality data to the designated International Data Center for greenhouse gases.

Station Name	Cholpon-Ata (CAT)
Coordinates	42.64°N 77.07°E
Elevation	1'613 m.a.s.l.
Parameter	Greenhouse gases
Monitoring Network	Global Atmosphere Watch (GAW)
International Data Center	World Data Center for Greenhouse Gases (WDCGG)
Training	On-site support and twinning

On-site training and remote support in technical matters ensure the sound operation of the installed measuring instruments at the Cholpon-Ata Lake Observatory. Additionally, twinning activities between the Kyrgyz and the Swiss partners allow the development of capacities in instrument maintenance, data processing and quality control, and ultimately aim towards the sustainable continuation of the implemented greenhouse gas observations.



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