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ARCTIC DATASETS: part of PEEX International Collaboration



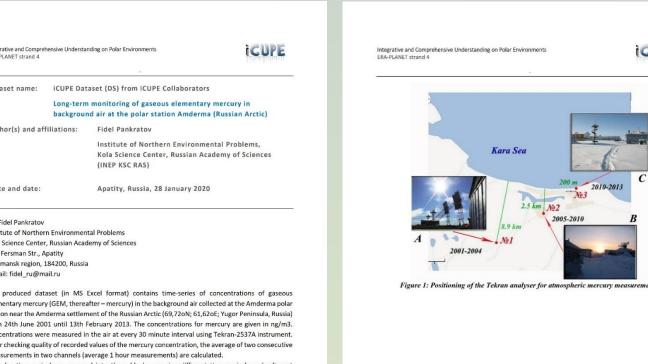
Integrative and Comprehensive Understanding on Polar Environments www.atm.helsinki.fi/icupe

Description **DATASET:**

Example:

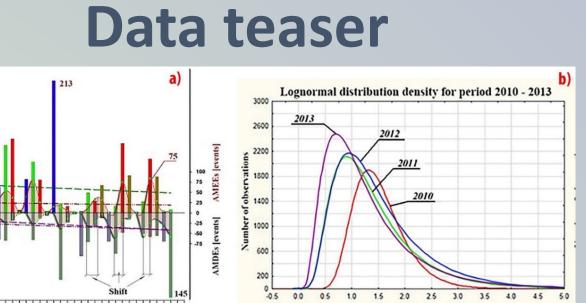


Metadata



Direct link

https://www.atm.helsinki.fi/icupe/images/Datasets/DS_Hg-Amderma_20200125.zip



(a) Seasonal dynamics of atmospheric mercury depletion (AMDEs) and elevated (AMEEs) events during 2001-2013. Duration of AMDEs and AMEEs (summer, spring, autumn, winter); linear approximation for AMEEs duration for spring - - -, and AMDEs duration for winter - - -; for total AMEEs duration — · · – and for total AMDEs duration — · · – · · – (b) Lognormal distribution of mercury concentration, June 2010 - October

Delivered Datasets

Dec 2018 - Emerging organic contaminants in air from the Arctic May 2019 - Emerging organic contaminants in snow from the Arctic

June 2019 - Anthropogenic contaminants in snow from polar regions June 2019 - Anthropogenic contaminants in ice cores from polar regions Sep 2019 - Emerging organic contaminants in water from the Arctic

Sep 2019 - Pilot dataset on Near-Real Time aerosol absorption measurements from Zeppelin Station, Ny Ålesund, Svalbard

Dec 2019 - Arctic atmospheric Hg(II) observations

Jan 2020 - Long-term monitoring of atmospheric mercury at the polar station Amderma, Russian Arctic

Mar 2020 - Classification of artificial light sources in the Yamal Peninsula, Western Siberia Mar 2020 - Fractional snow cover area in selected sites of Svalbard islands (Norway) Mar 2020 - Small-scale vertical and horizontal variability of the atmospheric boundary layer

aerosol using unmanned aerial systems

PAN-EURASIAN EXPERIMENT

In-Situ Atmospheric-Ecosystem

Collaborating Stations-Russian Federation

eCATALOGUE 2018-

Available Teasers

Time series of lake size changes in Northeast Greenland Dataset and code on classification of artificial light sources Arctic atmospheric Hg speciation and isotope observations Fractional snow cover area in selected sites of Svalbard islands, Norway

Dataset on atmospheric composition at Fonovaya Observatory, West Siberia Proxies for mixing layer height, condensation sink and gross primary production Source apportionment of organic aerosols in the Arctic including the source regions Multi-year dataset on mercury measurements at the Amderma station, Russian Arctic

Dataset on micro-climatic features and Urban Heat Island Intensity in cities of Arctic region Continuous vert. obs of aerosol & cloud properties from the Polarstern cruises PS 106.1/106.2 using CLOUDNET station Concentration of organic contaminants, mercury and other heavy metals in annual snow & shallow core records Visible Near Infrared airborne and simulated EnMAP satellite hyperspectral imagery of Toolik Lake, Alaska Absorption coefficient / equivalent black carbon standardized dataset for long term impacts in the Arctic Elemental and organic carbon over the northwestern coast of the Kandalaksha Bay of the White Sea Small-scale vertical and horizontal variability of the atmospheric boundary layer aerosol using UAS Dataset for ground-validation of precipitation measurements in high-latitudes and Arctic region

Occurrence, transport and exchange fluxes of emerging organic contaminants in the Arctic

In-Situ Stations: e-Catalogue

www.atm.helsinki.fi/peex/index.php/peex-russia-in-situ-stations-e-catalogue

Although more than 200 stations are presented in PEEX domain, only about 60 Russian stations have metadata information available. The metadata enables to categorize stations in a systematic manner and to connect them to international observation Networks as well as to standardize data formats following guidelines of WMO, GAW, etc. PEEX provides e-catalogue (as a living document) introducing measurements and contact information of the Russian stations.

Pan-Eurasian Experiment

PEEX MetaData

collection

peexdata.atm.helsinki.fi

DATASETS in

the stations' owners

Request from

PEEX SMEAR I data

catalog-intaros.nersc.no/dataset/peex-smear-data

direct link to database

From 200+ stations (in total) 11

catalog-intaros.nersc.no

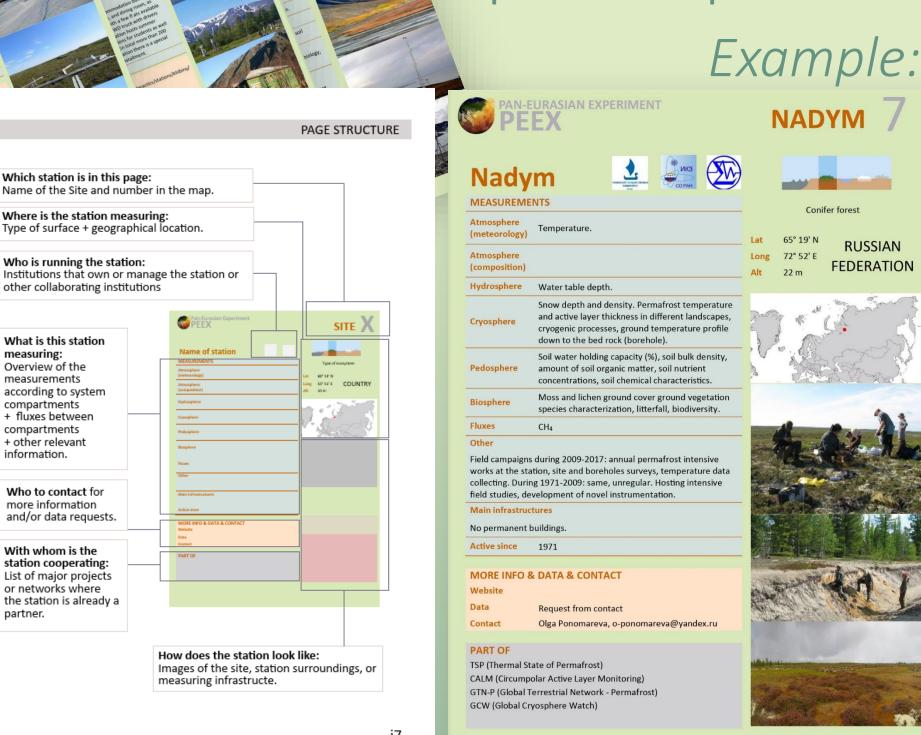
Russian stations in Arctic were selected for the Atmospheric, Terrestrial & Cryospheric parts

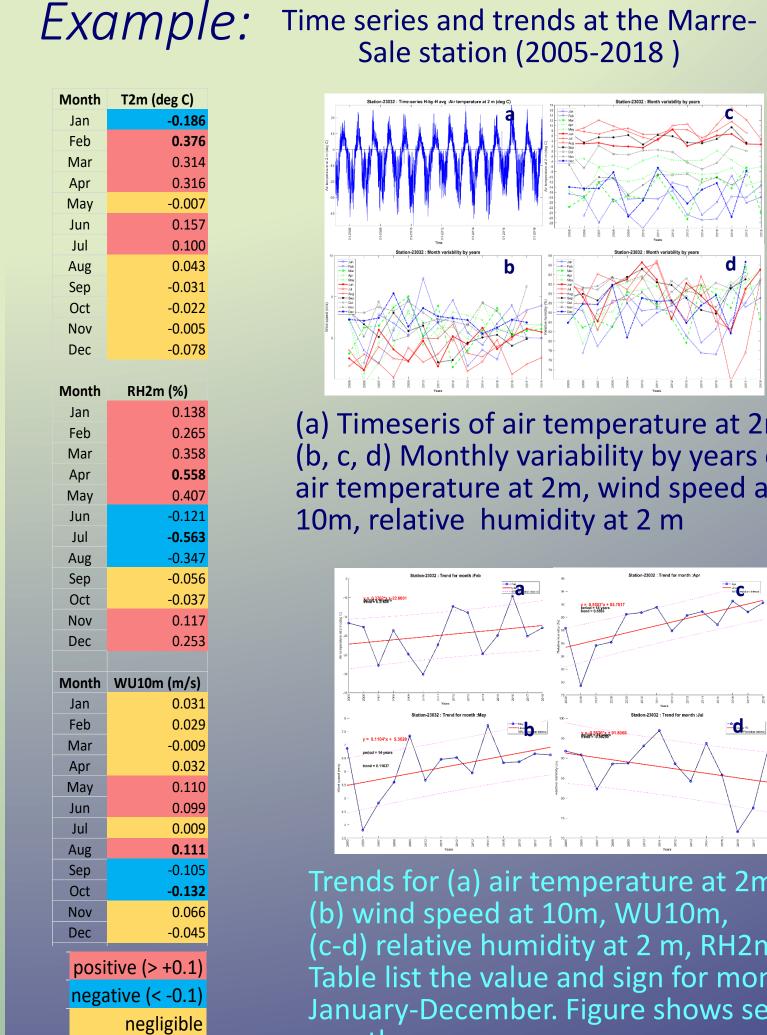


Integrated Arctic Observation System



To give wider visibility to the stations activities To promote PEEX research and stations into network partnertship





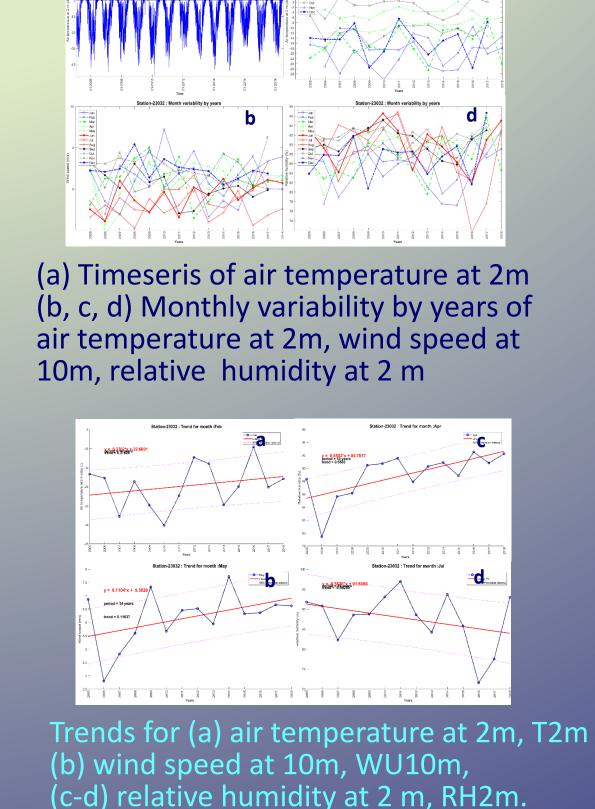


Table list the value and sign for months of

January-December. Figure shows selected

months.