

Investigation of Local Arctic Air Pollution and Its Effects on Human Health and Ecosystems

Working groups

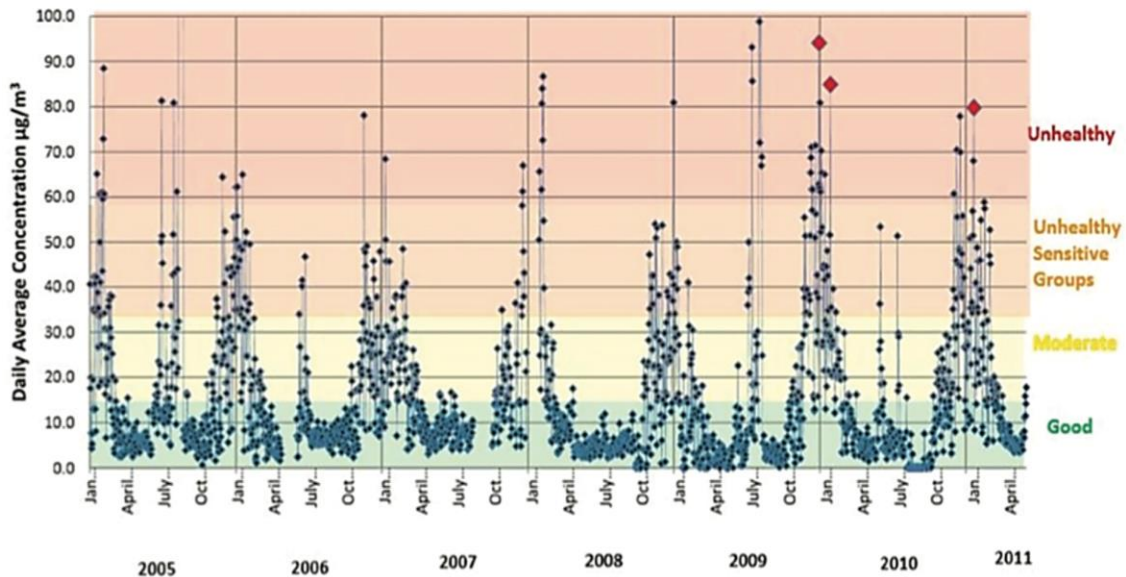
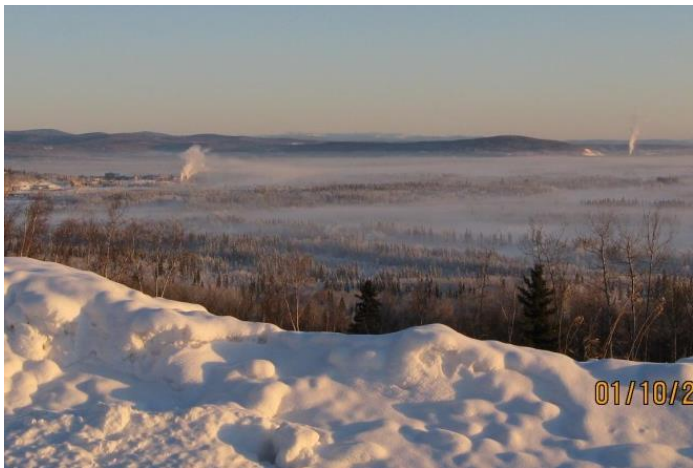
AWG - SHWG

Cross-cutting initiative

AWG – SHWG – TWG

Julia Schmale, Pelle Tejsner, Alevtina Evgrafova, Kathy Law, Steve Arnold, Arja Rautio, Philip Wookey, Sandy Starkweather
and friends 😊

Local picture: Urban air pollution (Fairbanks)



shallow inversion layers

exceedance of air quality standards

Workshop on: ALaskan Pollution and Chemical Analysis (ALPACA) project

Supported by: cross-cutting fund, SHWG, AWG



1st workshop - May 2018 in Fairbanks, AK



- ~40 participants
- 9 countries represented
- Scientists, local residents, citizen representatives, regulatory agencies
- Outcome: white paper, field study planned

<http://alpaca.community.uaf.edu/>



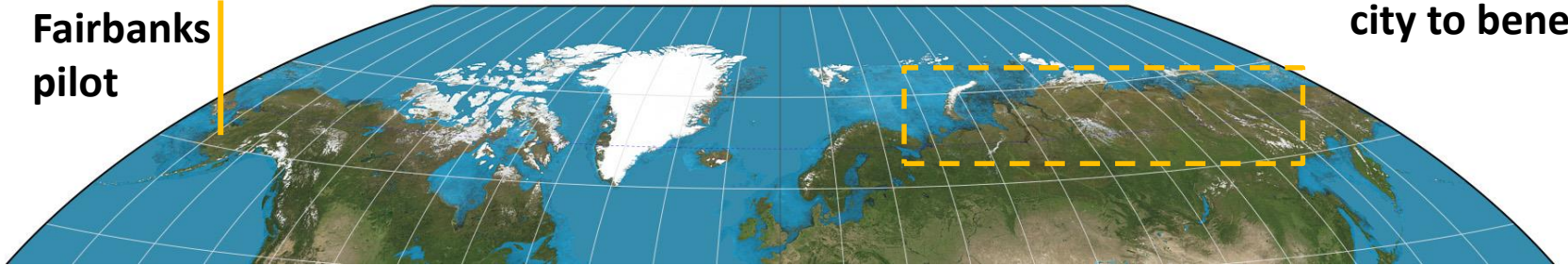
Transdisciplinary and Twin-city approach

Integration of **societal perspectives**: health, adaptation, economics, politics, ecosystem services, sustainability

→ needs **expertise from SHWG and TWG; stakeholders**

Eurasian twin-city to benefit

Fairbanks pilot



collaborators



Pan-Eurasian Experiment

PEEX



WG 2 timeline



- | | |
|-------------------------|--|
| March 2016, Fairbanks: | Exploratory workshop @ ASSW with natural and social scientists |
| April 2017, Prague: | Objectives defining workshop @ ASSW with natural and social scientists → field study |
| June 2017, Victoria: | General PACES workshop |
| July 2017, IASC: | Award of IASC cross-cutting grant |
| May 2018, Fairbanks: | Kick-off ALPACA field study planning |
| Spring 2019, EGU / ASSW | Side meeting/workshop |
| TBD, Fairbanks: | Field campaign |
| TBD, Eurasia: | Twin-city approach |