

Presentation title

Toward a more holistic understanding of an Arctic climate system in rapid transition

Presentation abstract (200 words)

The Arctic is warming twice as fast as the global average. This feature, known as the Arctic amplification, results in melting and opening of the region. Associated challenges and opportunities are many and significant, both for communities already existing in the Arctic and industries seeking profits there. Of fundamental importance toward this new Arctic state is collaboration between actors from academia, politics, industries, media and the regional residents.

Arctic Amplification: Climate relevant Atmospheric and surface processes, and feedback mechanisms (AC)³ is a collaborative research center whose main objective is to identify, investigate and evaluate the key processes contributing to the Arctic amplification, as well as quantify the relative importance of associated feedback processes. The uniqueness of the center lies in its synergy of combining observational and modeling tools, as well as atmospheric and surface processes over wide spatial and temporal scales.

In this presentation, the contribution of (AC)³ to the wider community is highlighted. The results of (AC)³ are of vital importance for climate change adaptation and planning in northern rural communities. Press releases, public lectures, online tools, art installations and more are planned in order to narrow the felt gap between academia and the general public.

Type of presentation

Oral presentation

Please identify 3-5 keywords associated with your presentation

Arctic, climate change, collaboration

Name of Presenter #1 and Primary Contact

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Conference theme identification (select all that apply)

Climate change and the impacts on rural communities infrastructure, economies, and lifestyles

Other comments

Planning to also give a talk on the climate awareness campaign Pole to Paris the opening night, but then as the deputy director of Pole to Paris.