



**National Snow and Ice Data Center**

World Data Center for Glaciology, Boulder

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**Norwegian Institute for Air Research**

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**Partnership in the project THAW: "Trends and Hazards in Arctic Warming: Climate change and greenhouse gas emissions from Arctic permafrost regions"**

Dear Dr. Cathrine Lund Myhre,

Thank you for the invitation to participate as a partner in the proposed project **THAW** coordinated by Norwegian Institute for Air Research. I gladly accept this invitation and I am looking forward to collaboration.

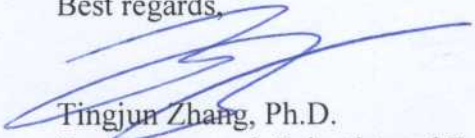
I am a Senior Scientist at the National Snow and Ice Data Center (NSIDC) which is part of the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado at Boulder. NSIDC supports research into our world's frozen realms: the snow, ice, glaciers, frozen ground, and climate interactions that make up Earth's cryosphere. NSIDC manages and distributes scientific data, creates tools for data access, and supports data users, and educates the public about the cryosphere. Scientists at NSIDC also conduct a wide spectrum of cryospheric research, including permafrost in the Arctic and Subarctic.

During the past two decades, we have conducted extensive study on changes in permafrost conditions and their response to global warming in Alaska and Siberian Arctic through statistical analysis using historical data, satellite remote sensing, field investigations, and numerical modeling. Currently, we mainly focus on documenting changes in permafrost and their impact on permafrost carbon flux in the Arctic. Your project **THAW** fits our ongoing projects very well, we are very happy to work with you and your colleagues on related issues in the **THAW** project. We are very happy to share our data products at NSIDC and models with you when needed, to exchange our scientific results, and to jointly publish research results.

Overall, your **THAW** project will provide an excellent opportunity for international collaboration for better understanding the permafrost carbon feedback to climate system in a warming world. We are looking forward to working with you and your colleagues on this exciting project in next few years.

We confirm that we will participate as a partner in the **THAW** project without being a contractor. If you have any questions, please feel free to contact me.

Best regards,



Tingjun Zhang, Ph.D.  
Senior Research Scientist and Fellow of CIRES