



Welcome to our first newsletter for T-MOSAIc

Many T-MOSAIc projects are now well underway and contributing towards our goal of an improved understanding of northern geosystems, ecosystems and human systems. These projects include new observations around the circumpolar Arctic, environmental sampling and archiving, conceptual syntheses and review articles, field workshop and conference session activities, and data compilations and analyses. This T-MOSAIc Newsletter will be published regularly, and our Secretariat will be happy to receive contributions from all T-MOSAIc Action Groups and collaborators.

Looking forward to hearing from you over the course of T-MOSAIc 2020!

The T-MOSAIc Chairs and Secretariat

NEWS

Special T-MOSAIc Issue of Arctic Science

A T-MOSAIc special issue of "Arctic Science" is now open for submissions, until March 2021. Please visit our website for more information.



Special T-MOSAIc Issue on Arctic Terrestrial Pollution

A T-MOSAIc special issue on terrestrial Arctic pollution has been pre-accepted for publication in the Elsevier journal "Environmental Pollution" (IF:5.7). More information will be provided shortly.



T-MOSAIc in "Advances in Polar Sciences"

A T-MOSAIc Opinion Editorial was published in the journal "Advances in Polar Sciences" with the title "T-MOSAIc – A new circumpolar collaboration", the article describes the main goals of the program and invites the Arctic community to join our Action Groups ([link](#)).



CALLS

The T-MOSAIc/INTERACT Call for Stations Managers Support is open and ready to receive requests from the T-MOSAIc community until March 23.

After that date, all submissions will be verified by the T-MOSAIc Secretariat and sent to INTERACT for final decisions.

Please consult our website to see how to proceed.



ACTION GROUP ACTIVITIES

Arctic Infrastructure AG

- EGU 2020 session: 'Trans-disciplinary aspects of researching permafrost thaw: science communication, integration, monitoring, modelling and risk perception' scientific session will take place at the EGU 2020 General Assembly in Vienna (Peter Schweitzer and Annett Bartsch leads).
- Cross-cutting proposal is being submitted to IASC for a RATIC/T-MOSAIc Arctic Infrastructure workshop at ASSW 2021 in Lisbon. (Skip Walker and Vlad Romanovsky leads).
- Synthesis paper on "Arctic roads and rail" is in preparation for special issue of T-MOSAIc in Arctic Science, along with another paper in preparation for submission to Arctic Science Special Issue: Walker et al. "Infrastructure and climate change impacts in ice-rich-permafrost (IRP) landscapes, Prudhoe Bay oilfield, Alaska: considerations for cumulative effects assessments"
- RATIC/T-MOSAIc steering committee prioritized the following Arctic infrastructure-related research activities based on member interest: (i) Developing a classification framework to support monitoring and modeling of arctic infrastructure (Howie Epstein and Dmitrii Sergeev leads); (ii) Developing strategies to increase involvement of industry and indigenous people in infrastructure research (Ranjan Datta and Roza Laptander leads); (iii) Synthesis articles.



Northern Community Issues AG

Project PERMARSENIC from the Portuguese Polar Program is doing fieldwork in Nunavik, Canada to study the release and speciation of Arsenic from Thawing Permafrost and its impacts on the freshwater systems and ultimately in Indigenous Populations



Remote Sensing and Arctic Infrastructure AGs

A 'Trans-disciplinary aspects of researching permafrost thaw: science communication, integration, monitoring, modelling and risk perception' scientific session will take place at the EGU 2020 General Assembly in Vienna. This session sponsored by T-MOSAiC will be chaired by T-MOSAiC collaborators Peter Schweitzer (Arctic Infrastructure AG and Annett Bartsch Remote Sensing AG).





IASC

The logo for the International Arctic Science Centre (IASC) features a stylized sun or snowflake shape composed of horizontal lines in shades of blue and white, positioned above the acronym 'IASC' in a large, bold, light blue font.