

Introduction of the IASC project "T-MOSAiC"

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Terrestrial Multidisciplinary distributed Observatories for the Study of Arctic Connections (T-MOSAiC) is one of the IASC (International Arctic Science Committee) projects. T-MOSAiC has been formulated as a research and synthesis project to provide an integrated, cross-disciplinary evaluation of how the changing Arctic Ocean affects terrestrial environments, from the coastal zone to the continental interior. The project will focus on connecting studies which take place throughout the Arctic and across disciplines in order to generate new findings into Arctic geosystems, ecosystems and human systems. There are key aspects to be addressed include connectivity, gradients, discontinuities, thresholds, extreme events and emergent properties, with specific questions that bridge sites and disciplines. Data sets will be available via open access repositories. T-MOSAiC will run in parallel to the ocean-based project Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC), with temporal overlap in 2019-2020 and exchange of data sets such as climate observations from land and ocean stations.

Participating in T-MOSAiC has several advantages to your research. Join an international project across disciplines that targets key physical, ecological and societal issues affecting the Arctic and the world, at this critical time of rapid change and international decision-making. Contribute to fill key observational data in gaps identified by the T-MOSAiC Science Plan. Assure laboratory and project visibility at the international level. Benefit from T-MOSAiC and IASC grants for early career researchers for networking. Link with large T-MOSAiC partners such as MOSAiC (<https://www.mosaic-expedition.org/>), INTERACT (<https://eu-interact.org/>), Sentinel North (<https://sentinelnorth.ulaval.ca/en>), Nunataryuk (<https://nunataryuk.org/>) and others. Develop new collaborations, including across disciplines. Please visit the T-MOSAiC web site and get more information (<https://www.t-mosaic.com/>).

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