



MOSAIC: An Arctic Observatory

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The **Multidisciplinary Drifting Observatory for the Study of Arctic Climate (MOSAIC)** is an international research expedition to study the physical, chemical, and biological processes that coupled the Arctic atmosphere, sea ice, ocean, and ecosystem.

- MOSAIC is the **first year-round expedition** into the **central Arctic exploring the Arctic climate system**.
- During the **year-round operation of research**, the distributed regional network of observational sites will be set up on the sea ice surrounding the ship **icebreaker RV Polarstern**.

The icebreaker RV Polarstern is a German Research Vessel which is mainly used for research in the Arctic and Antarctica.

- The results of MOSAIC will contribute to enhance understanding of the regional and global consequences of Arctic climate change and sea-ice loss and improve weather and climate predictions.
- The project has been designed by an international consortium of leading polar research institutions, under the umbrella of the International Arctic Science Committee (IASC).

International Arctic Science Committee

- The International Arctic Science Committee (IASC) is a non-governmental, international scientific organization
- IASC promotes and supports leading-edge interdisciplinary research in order to foster a greater scientific understanding of the Arctic region and its role in the Earth system.

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