



Section Atmospheric Physics



Understand the role of the polar cosphere

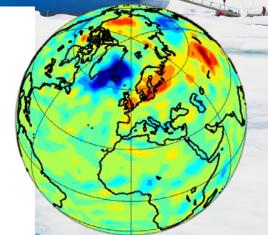
(1) Observations of key polar climate processes

Development of process models for individual subsystems

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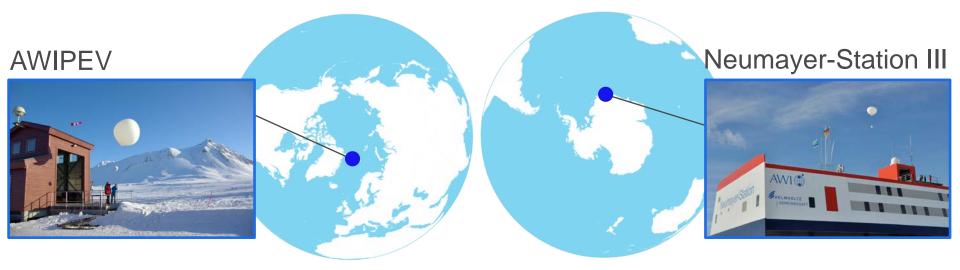
Long term meteorological observatories in the Arctic and Antarctic – AWIPEV and Neumayer



AWI's meteorological observatories



AWI's long-term observatories are strategically located in key regions of climate change and obtain high-quality observational data for the international science community.





First GRUAN site

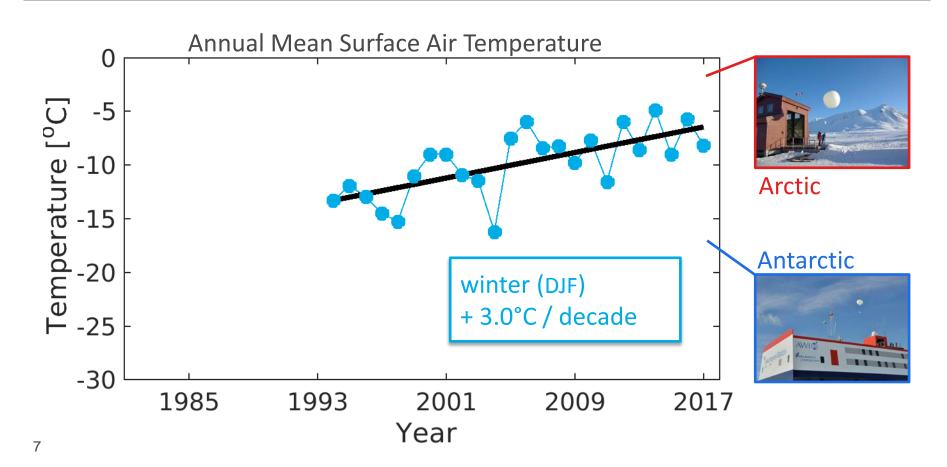




Nov. 2012: Marion Maturilli (AWI) and Holger Vömel (GRUAN)

Climate change in Arctic and Antarctic







MOSAIC



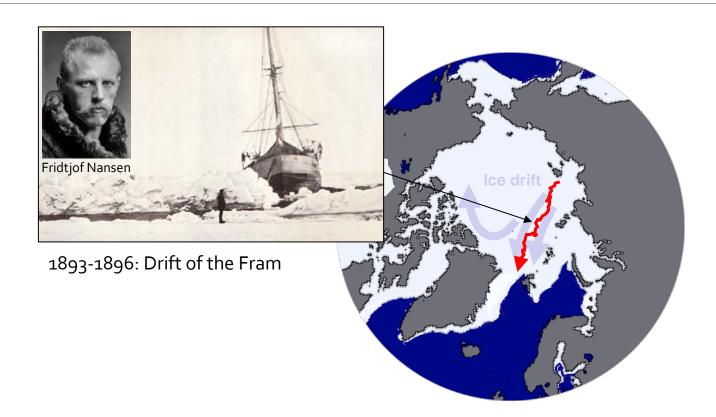


A major international research initiative under IASC to improve the representation of Arctic processes in weather forecast and climate models



Reaching the central Arctic in winter







Expedition concept



