



## **On the importance for climate science communication – the climate office for polar regions and sea level rise**

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Climate change presents a major challenge for national and international action and cooperation. A wide variation in the vulnerability is to be expected across different regions, due to regional differences in local environmental conditions, preexisting stresses to ecosystems, current resource-use patterns, and the framework of factors affecting decision-making including government policies, prices, preferences, and values. Thus, considerable regional impact differences will be faced as a result of climate change. Being aware will help to prepare for these inevitable consequences in time.

Climate change is nowhere more strongly expressed than in the polar regions which respond to even small changes in climate. Given the major role played by these regions within the Earth's climate system the climate office for polar regions and sea level rise is hosted by the Foundation Alfred Wegener Institute for Polar and Marine Research (AWI) which conducts research in the Arctic, the Antarctic and at temperate latitudes since 1980.

The major goal of the climate office is to encourage the communication and dialogue between science and public. Primarily, this is done by the unique close contact and cooperation to the research center scientists. A continuous exchange is supported beyond the research center towards universities and authorities at state and federal level. The climate office represents polar aspects of climate related research based on the scientific expertise from the hosting research institute e.g. the understanding of the ocean-ice-atmosphere interactions, the animal and plant kingdoms of the Arctic and Antarctic, and the evolution of the polar continents and seas. The climate office translates the scientific work into English, making complex issues accessible to policymakers and the public. It compiles, evaluates, comprehensively process and transparently communicate the latest findings from polar related climate research. The paper will present different aspects of this work.