

# KlimaCampus Colloquium

## Prof. Gregory Flato

at the invitation of the Max Planck Institute  
for Meteorology (MPI-M)

### The Changing Arctic: From Science to Scenarios

The Arctic is experiencing climate change that is much larger and more rapid than the global mean. This is having, and will continue to have, profound impacts on the ecology, inhabitants and industry. Adaptation will be necessary, and the plans and decisions that must be made should be informed by sound science. Climate models provide the foundation for scientifically-based climate change scenarios, but there are many issues that arise in 'translating' climate model output into usable information. This talk describes some aspects of my personal evolution from a model developer to someone involved in the provision of climate change information for adaptation in the broader context of 'climate services'. While others have described many of these issues, I will summarize what I see as the major challenges, namely the mismatch in 'kind' and 'scale' of the information we can provide, relative to user needs, and the issue of trust or confidence in the information. I will include some suggestions on ways to make progress on bridging these gaps.

KlimaCampus Hamburg

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