



# ATOC COLLOQUIUM

## Welcome!

Please join us for the next ATOC Colloquium on **Friday, February 28**, from **11:00 AM–Noon** in **SEEC S228**. This week's colloquium features **Marika Holland** from the **National Center for Atmospheric Research (NCAR)**. Come early for coffee at 10:45 AM; lunch will be served after.

## Perspectives on Predicting Arctic Sea Ice from Seasons to Centuries

In response to anthropogenic climate change, the Arctic as we know it is disappearing. This includes a rapid thinning and decline in the areal extent of sea ice cover. Importantly, sea ice processes and related feedbacks are climate state dependent. This affects the projected rate of sea ice loss and the predictability of sea ice across timescales. Here, I use results from climate model simulations to quantify these effects. I discuss how the changing mean Arctic sea ice state influences the magnitude of internal variability and the implications of this for our ability to predict sea ice conditions on seasonal and longer timescales.



## About the ATOC Colloquium

The Department of Atmospheric and Oceanic Sciences Colloquium is held **every other Friday** from **11:00 AM–Noon**, in **SEEC S228**. Colloquia will alternate between the following formats: (A) Full-length talk by a faculty member or invited speaker, (B) Three conference-length talks by graduate students. If you would like to nominate a speaker (including self), please email the ATOC Colloquium Committee Chair, Prof. Jan Lenaerts ([jan.lenaerts@colorado.edu](mailto:jan.lenaerts@colorado.edu)). Please visit [www.colorado.edu/atoc/colloquium](http://www.colorado.edu/atoc/colloquium) for further details and the upcoming schedule.