

# Simulated Atmospheric Response to Regional and Pan-Arctic Sea Ice Loss

James Screen, University of Exeter ([j.screen@exeter.ac.uk](mailto:j.screen@exeter.ac.uk))

**Introduction.** This study analyses simulations with an atmospheric general circulation model prescribed with sea-ice loss separately in nine regions of the Arctic, to elucidate the distinct responses to regional sea-ice loss. A further experiment was conducted with pan-Arctic (all regions combined) sea-ice loss. Figures below show October-to-March responses of 1.5 m temperature and 500 hPa geopotential height in each case.

