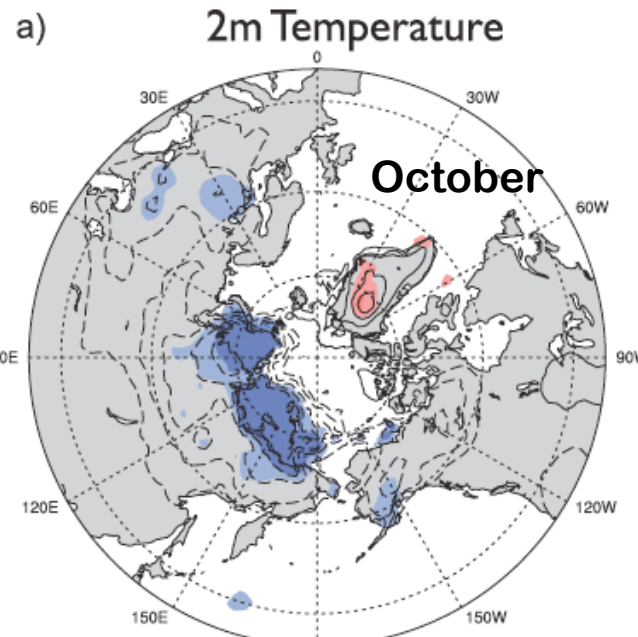
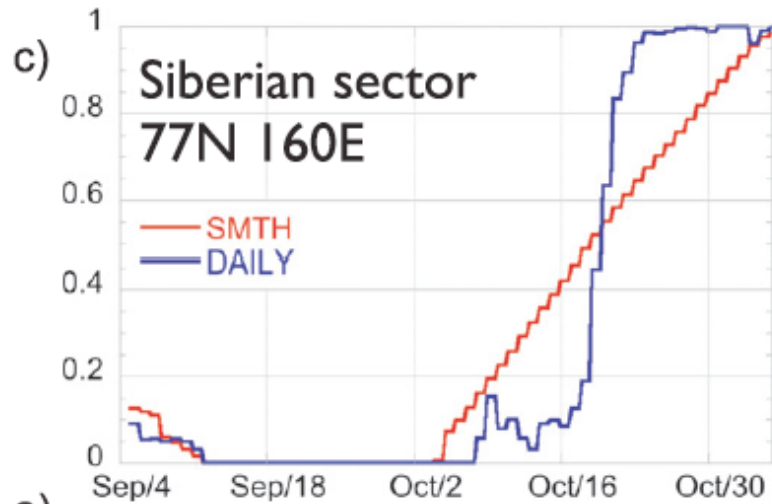
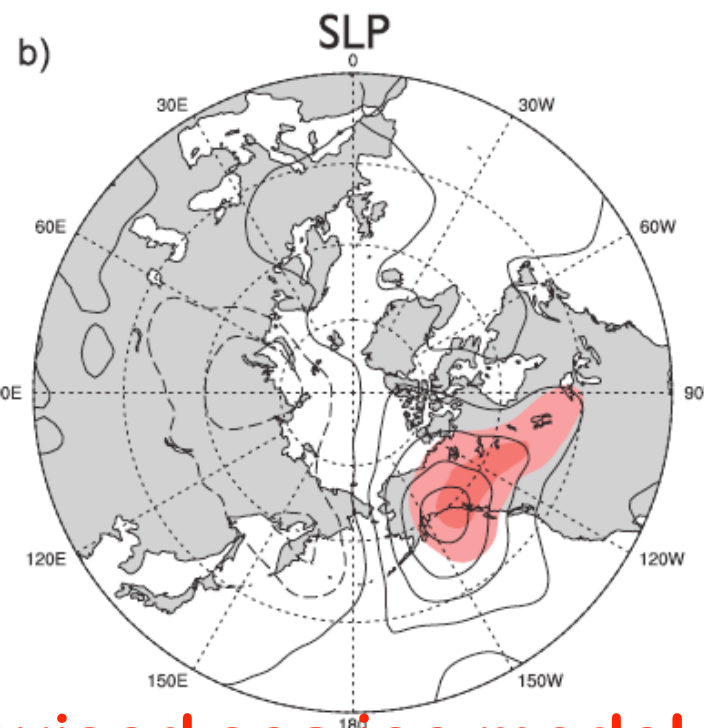
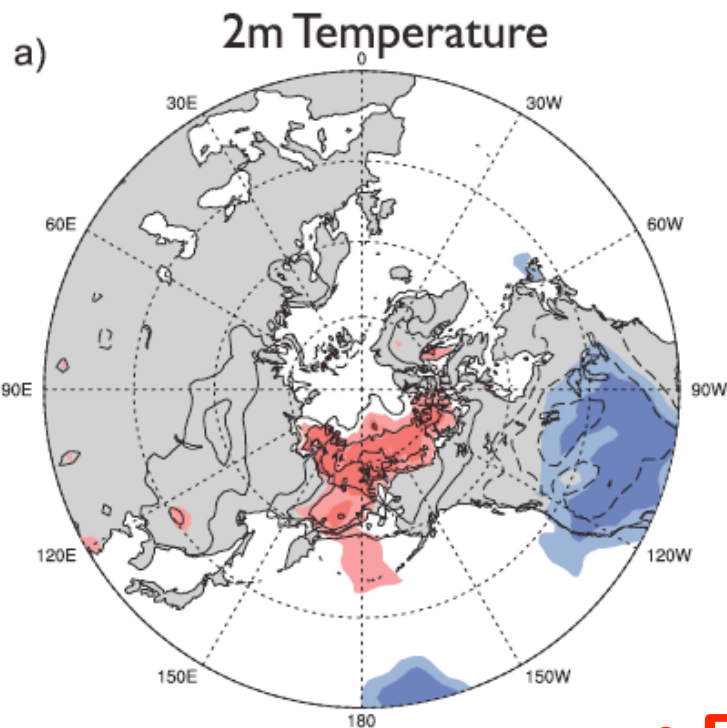


- Growing interest in impact of sea ice on large-scale climate.
- Demands on sea ice models growing
- Daily sea ice tendency shows it is underestimated in most coupled models particularly in MIZ
- **Does this underestimate of ice variability matter?**
- CAM3 forced with daily vs smoothly varying sea ice (100 ensembles).

[Dammann et al. 2013 J. Climate]



- Faster ice expansion leads to differences, 0.4-0.5 C.



- Sea ice differences lead to 0.3-0.6 C SAT differences in CONUS.

[Dammann et al. 2013 J. Climate]

- Revised sea ice model needed to answer our current questions!