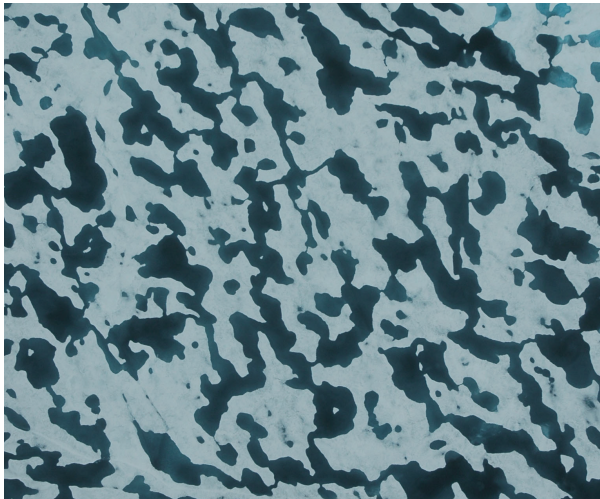# challenge:

Represent sea ice more realistically in climate models to improve projections.

How do patterns of dark and light evolve?

Account for key processes

e.g. melt pond evolution

Including PONDS in simulations LOWERS predicted sea ice volume over time by 40%.

Flocco, Schroeder, Feltham, Hunke, *JGR Oceans* 2012

... and other sub-grid scale structures and processes.

linkage of scales