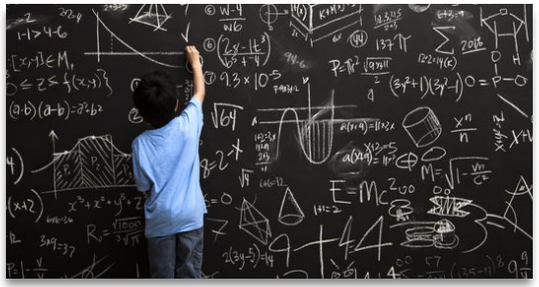
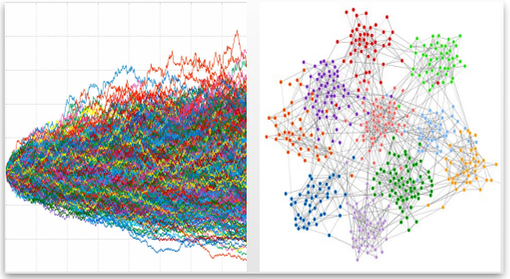
Mathematical methods



Analysis methods for novel sea ice models

Parameterized models



Stochastic and Machine Learning sea ice models

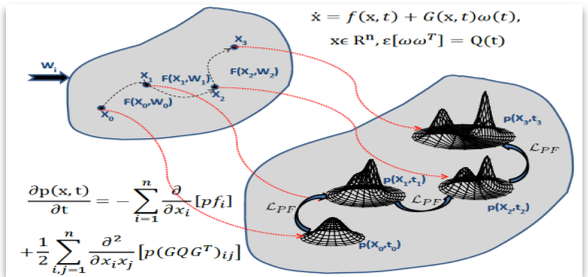
Sea ice floe model

Improved sea ice modeling at floe scales

Data analysis

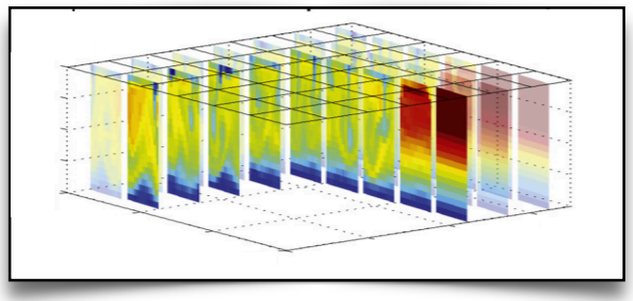
High-resolution remote sensing and *in-situ* data analysis

Data assimilation and UQ



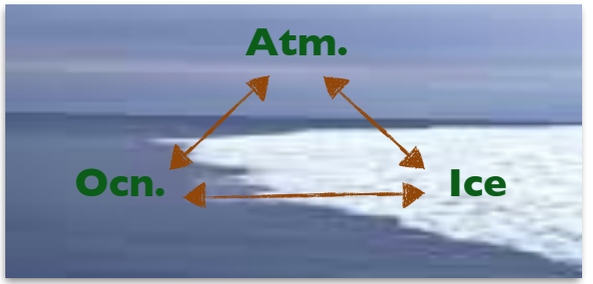
Quantifying model errors and uncertainty in parameter estimates

Superparameterization



Computationally-efficient and accurate sea ice modeling

Sea ice coupling



Sea ice predictability in coupled atmosphere-ice-ocean models