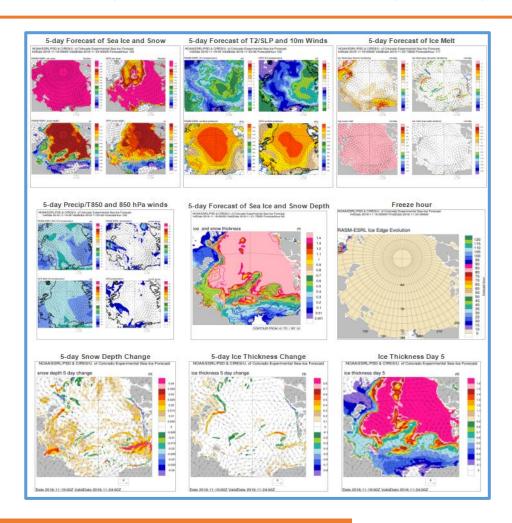
Observational Needs for RASM-ESRL Sea Ice Forecasting

RASM-ESRL produces 5-14 day forecasts of 3-hourly sea ice & 6-hourly atmospheric products. The model is initialized with the 0 Z GFS analysis, AMSR2 sea ice concentration, & an ocean reanalysis product. Lateral boundaries are forced by 3-hourly GFS forecasts (temp, winds, & water vapor) & model-derived monthly means in the ocean. Forecasts are posted daily at ~6 Z.

RASM-ESRL Forecast Products

- Sea Ice Area
- Snow Depth
- 2 m Temps
- Surface & 850 mb Pressure
- 10 m Wind Speed & Direction
- Precipitation
- 850 mb Temps & Winds
- Ice Thickness Thermodynamic Tendency
- Ice Thickness Dynamic Tendency
- Snow Melt & Ice Melt
- Freeze Hour
- Snow Depth Change
- Ice Thickness Change
- Ice Thickness
- Etc.



Observational Needs for RASM-ESRL Sea Ice Forecasting

Fields for RASM-ESRL Model Initial & Boundary Conditions

Atmosphere

- T, P, wv, wind profiles
- Surface Winds
- Clouds

Ice

- Sea Ice Thickness
- Skin Temperature
- Sea Ice Concentration
- Motion vectors

Ocean

- Sea Surface Temperature
- Surface salinity
- Currents

Questions

Are any JPSS obs currently being uploaded to GTS and assimilated by GFS? How long does it take to get full pan-Arctic coverage?

What would be the resolution of coverage over a 3 day period?