Break-Out Group Summaries

SeaState Modeling/Forecasting Workshop

2 FEB 2016

BOG 1 – Observations

- Datasets needed to validate/verify models
 - Large-scale:
 - Quick and dirty for starters (state variables), spatial integration
 - Mesoscale:
 - Surface temps
 - Atmos. boundary layer profiles; ice drift velocity
 - Sea ice thickness; snow depth
 - Process Understanding:
 - Surface Energy Budget Terms this is where the physics come into play, critical for coupled modeled systems
 - Data should inform tendencies, energy budgets, growth rates vs. sea ice edge or a specific metric
 - Aggregating cases wrt overall conditions don't worry about georeferenced obs but collate cases that illustrate coupled process issues
 - Ocean Terms Stratification; heating; obs needed for models

BOG 1 cont.

- Validating satellite obs
 - (those are better match to models)
- Assimilation study to assess needs
- Importance of providing uncertainty w/ each obseration
- Create common dataset for model intercomparison study
- Caution of tuning model to match single case/cruise
 - Want function response of models
- Future opportunities
 - CANAPE 2016 Sikuliaq underway data only
 - SODA 2018
 - MOSAiC 2019