### Looking up from below

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- Improving weather and water models for forecast guidance and direct use
- Is it actually an improvement?
- Web site = polar because ... me

A High-Resolution Integrally-Coupled Ice, Tide, Wind-Wave, and Storm Surge Model for Western Alaska





#### **Tides**



## So, please tell us (LEO site) about:

- Water levels (time is very important)
- Wave heights
  - http://polar.ncep.noaa.gov/waves/

#### Lakes/Wide Rivers/Nearshore Waters



#### Ice analysis

http://polar.ncep.noaa.gov/seaice/



# Water Temperature Analysis

http://polar.ncep.noaa.gov/seaice/



### Ice condition and water temperature

- http://polar.ncep.noaa.gov/sst/lakes/
- LEO

- Have those rivers/lakes really frozen?
- It is really that warm off SW in interior lakes/river?
- What are water surface temperatures between ice floes?!
  - Even when cloudy/windy?

• Key: Are we doing the right things for water (levels, temperatures), waves, ice?

Coming: Ice concentration and thickness
guidance model