Tides / High-frequency Summary

2 talks on new CNES/CLS/LEGOS/Noveltis and ESA/Noveltis/DTU barotropic tide models:
    FES2014 (global) + regional model of Arctic

The notorious 59-day problem in mean sea levels
    Topex and Jason are inconsistent at β' period (S$_2$ alias)
    Zawadzki et al., in preparation

3 talks on internal tides and 1 on internal waves
    motivated especially to prepare for SWOT
    first cut at new global internal-tide models
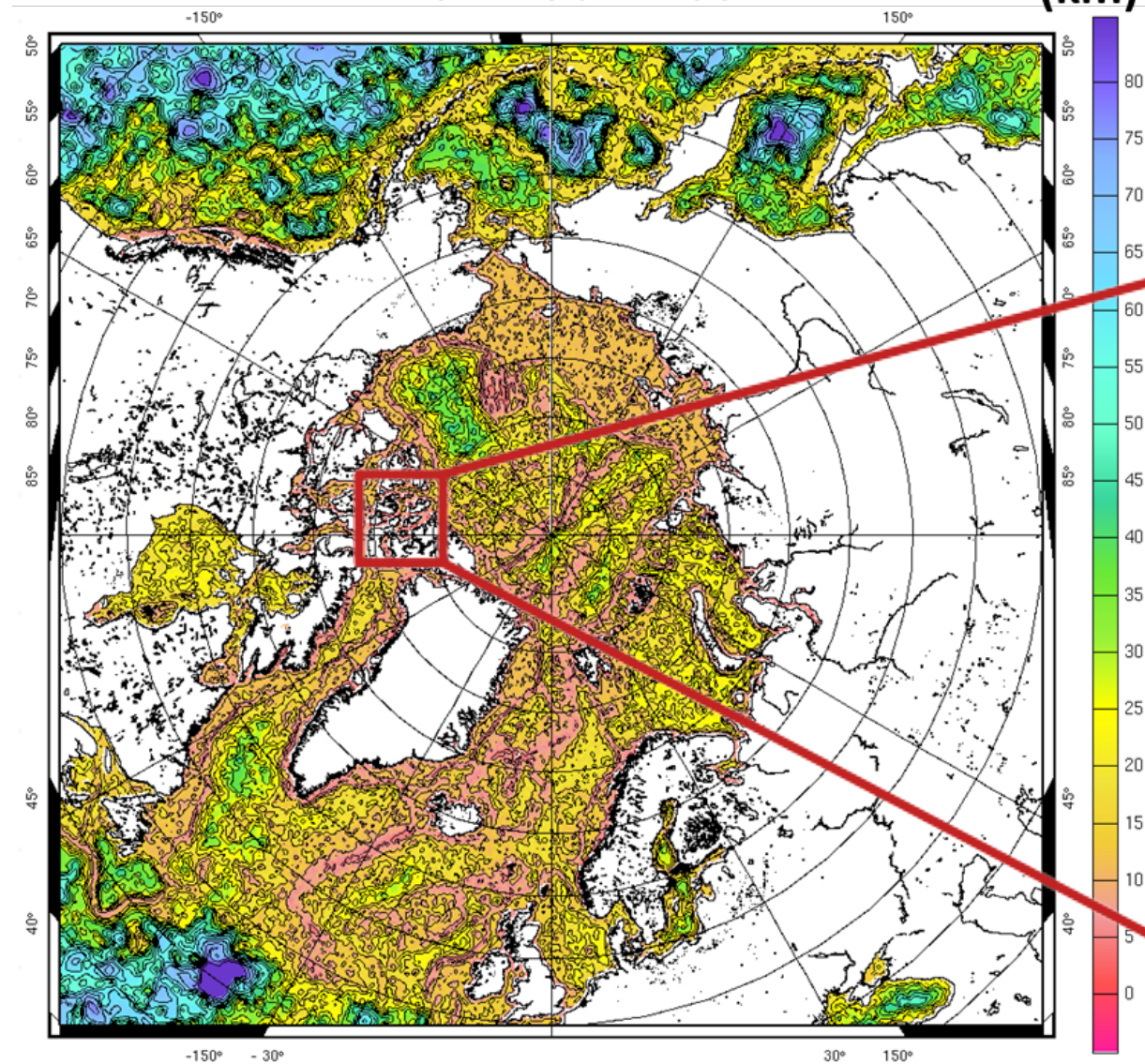
5 posters
    – improvements to dynamic atmospheric loading model
    – surface & internal tides (including another global model)
    – revised pole-tide correction
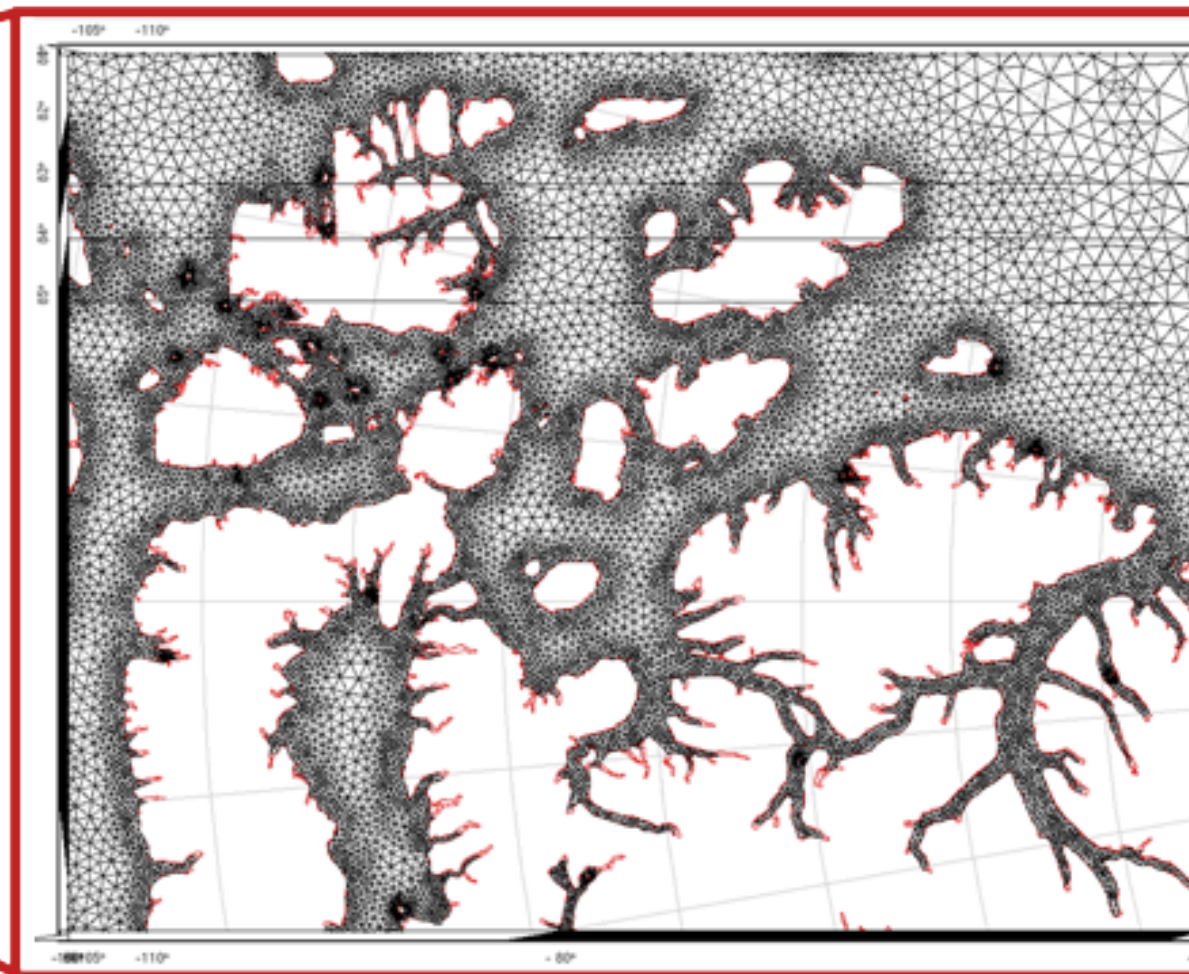
Finite-element mesh – Arctic Ocean
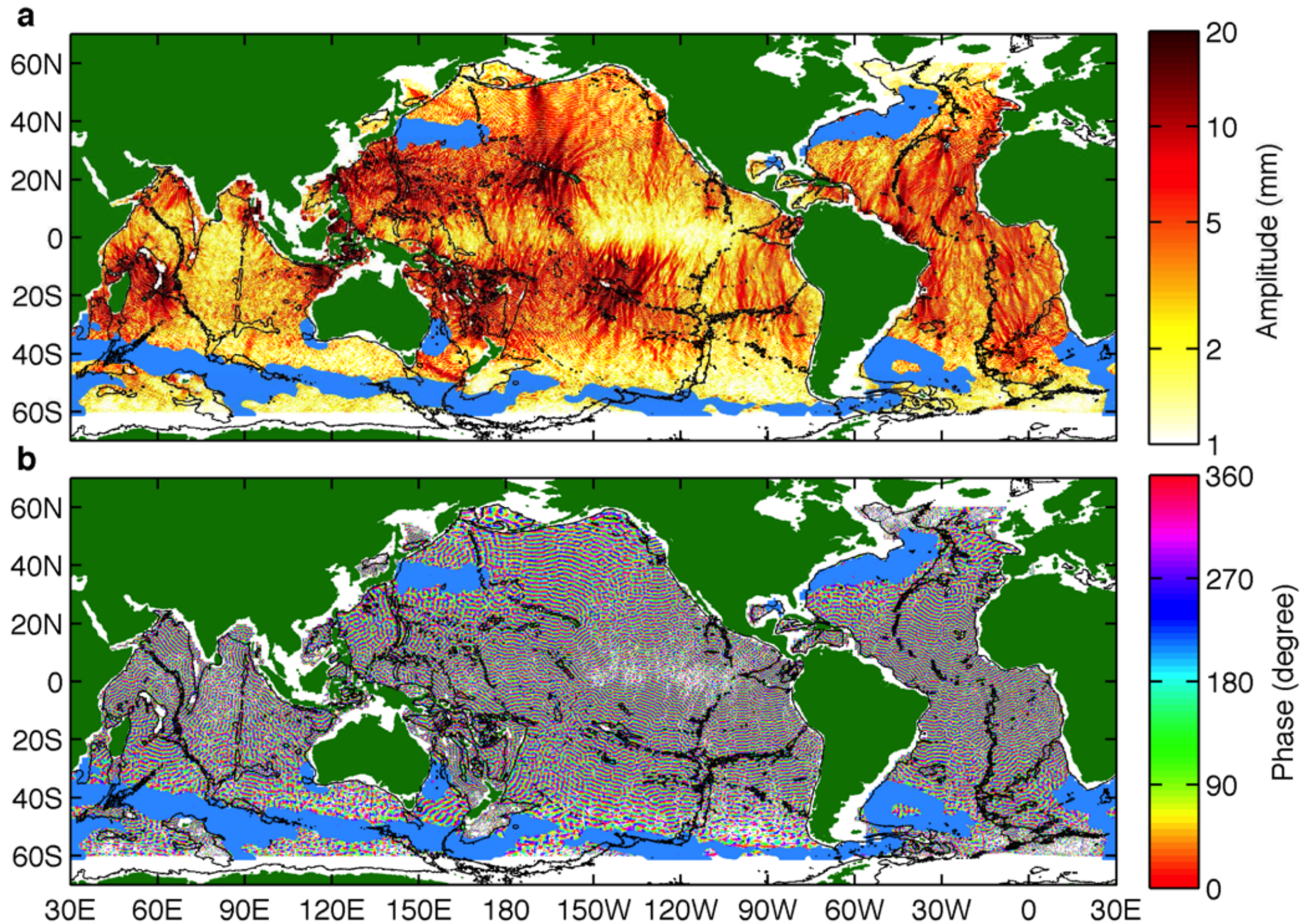## Cancet et al.

Coast: ~4 km

Offshore: ~8 km

Global mode-1 M2 internal tide

Zhongxiang Zhao

Tides Round Table Discussion

Jason-2 EOL orbit:
   No strong preference, but we should check aliasing

SARAL orbit:
   Some in favor of letting it drift
   Some in favor of staying ± 5 km

Loren Carrère: CNES SWOT managers desire testing
          of new internal tide models early next year.
       Too soon? Current models are fledglings.
       How to do it?
           – independent altimetry (if there is any)
           – PIES (but often deployed in boundary currents)
           – many subtleties (e.g., coupling with surface tide)