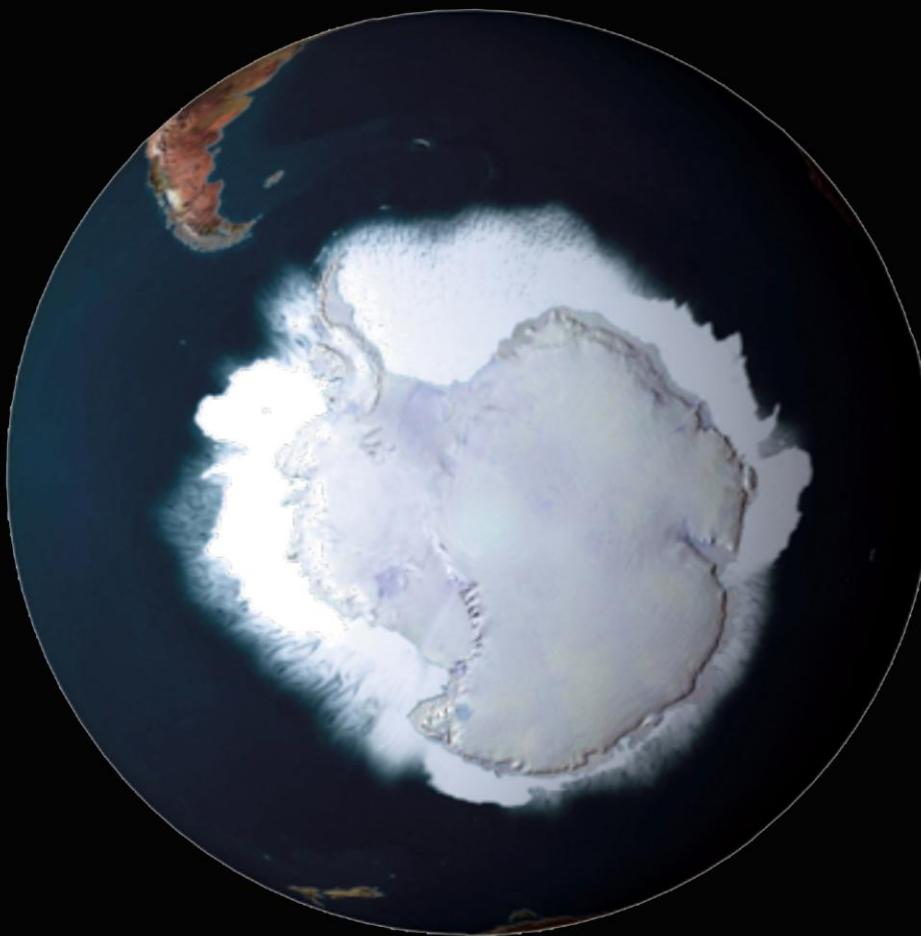
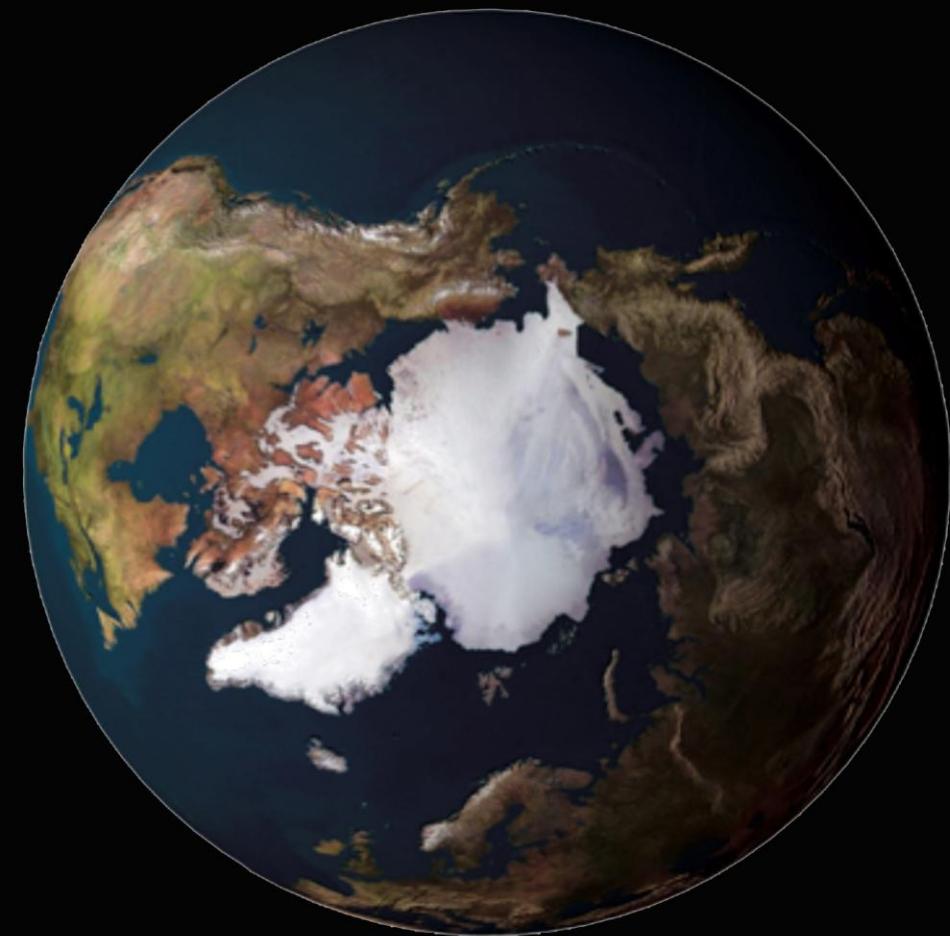
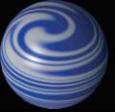


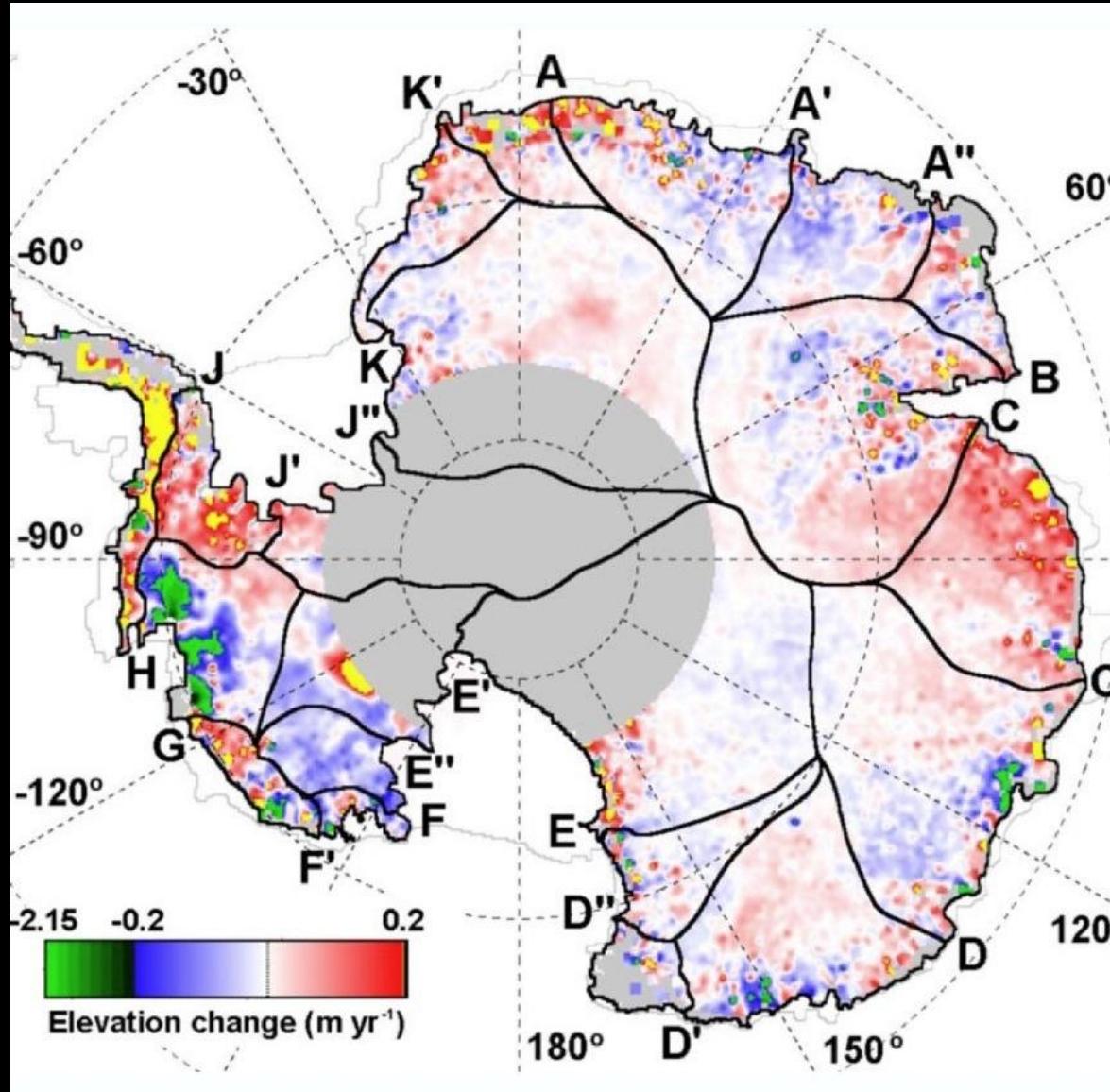
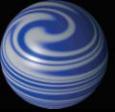
CryoSat-2



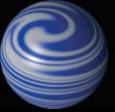
Seymour Laxon

Andy Ridout, Rob Cullen, Natalia Galin,
Katharine Giles

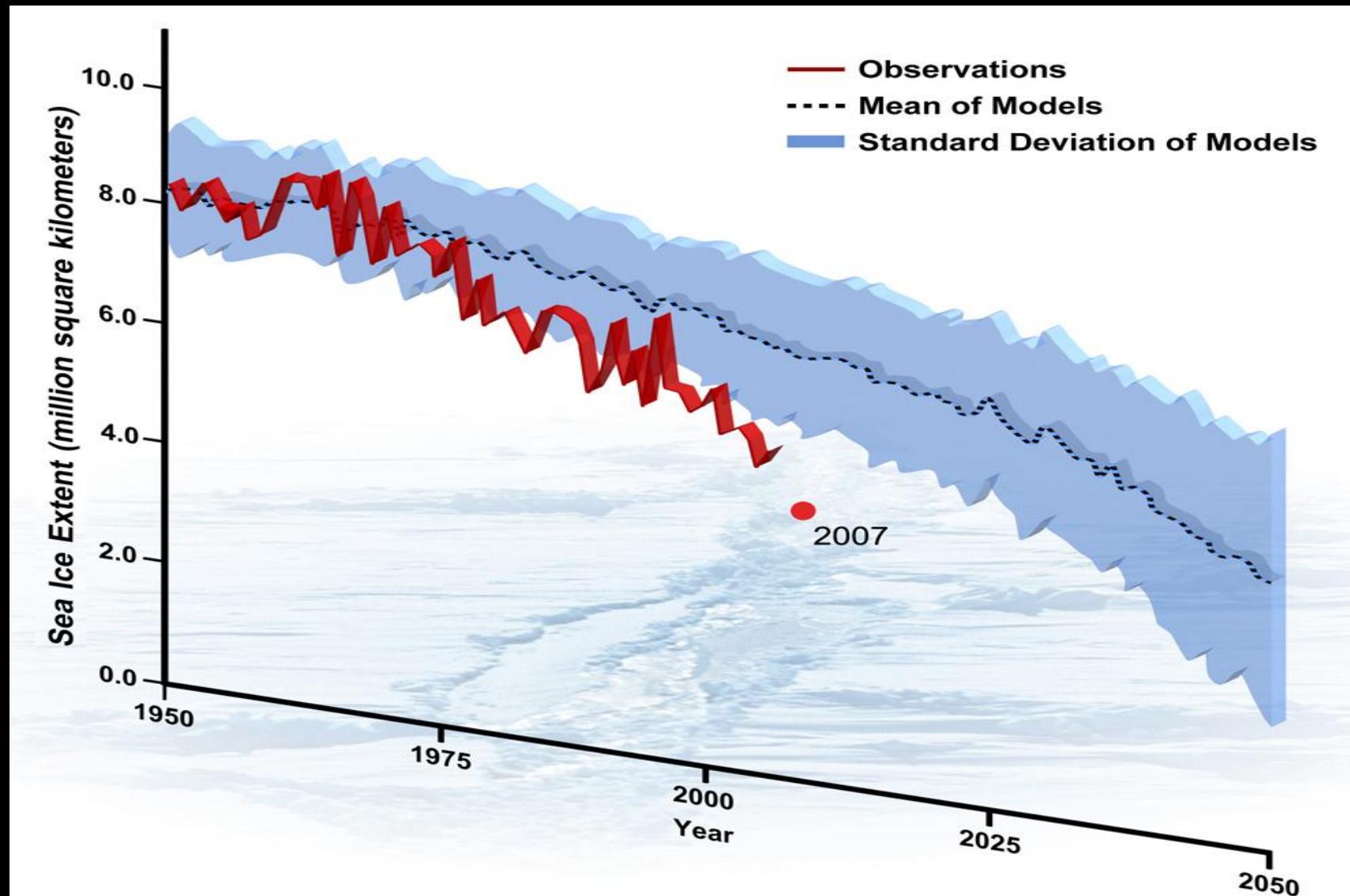


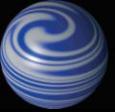


[Wingham et al, 2006]

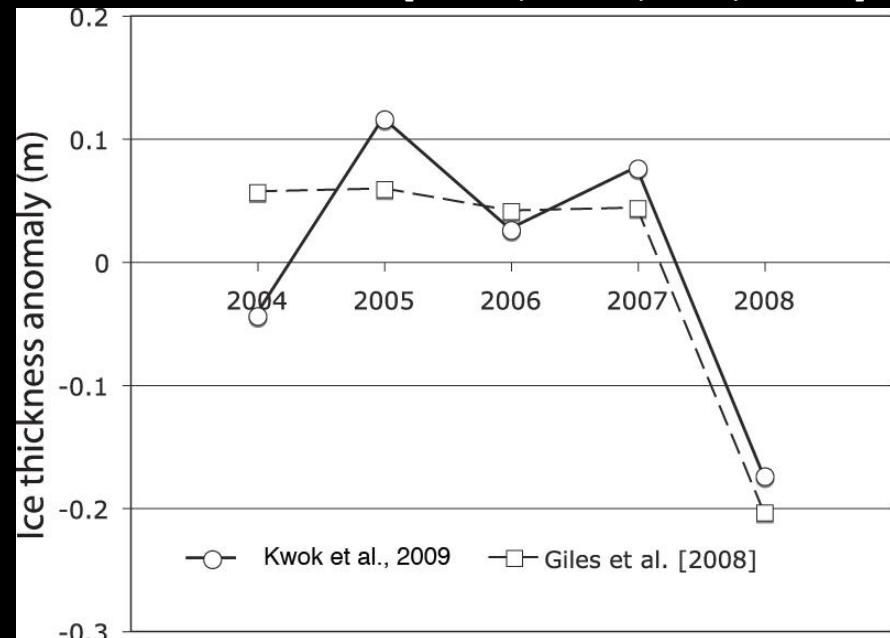


Sea Ice Extent 2007

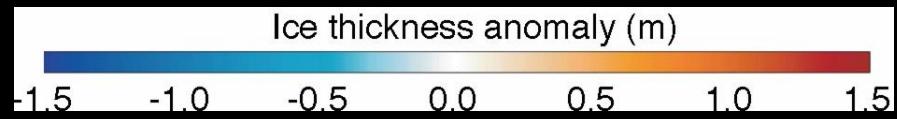
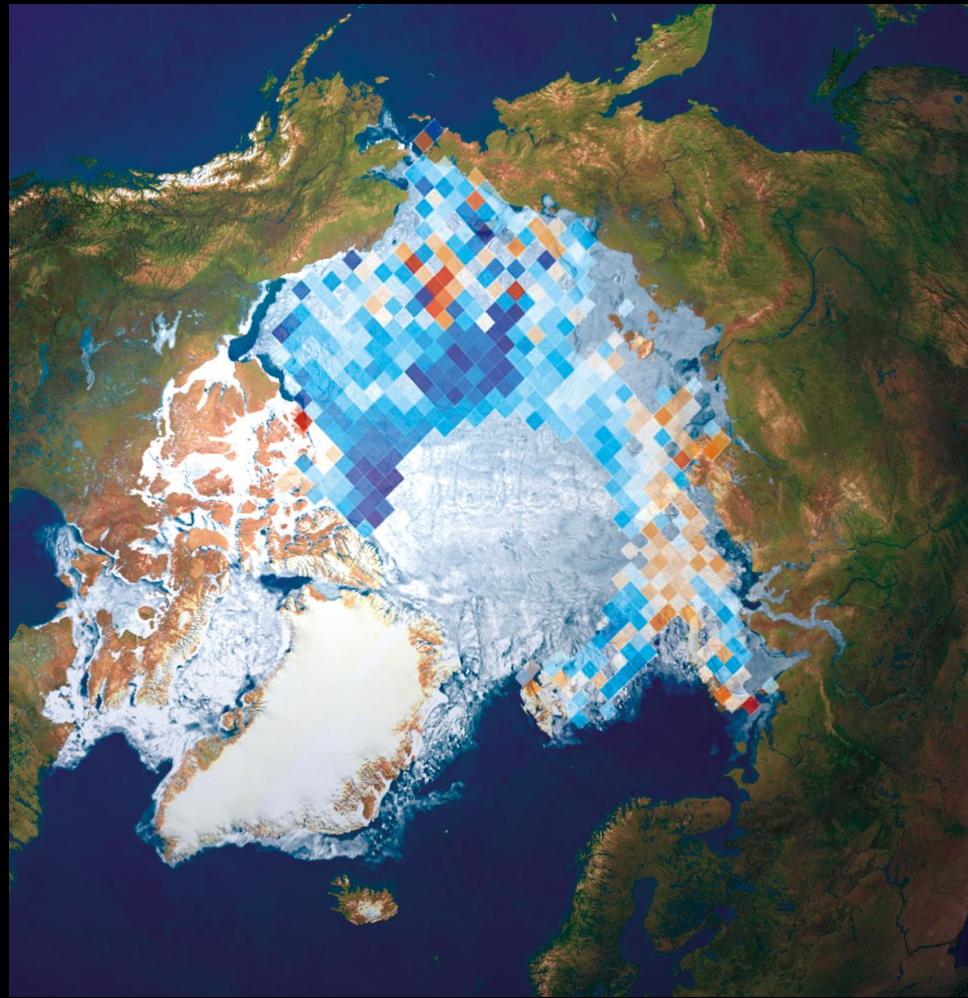


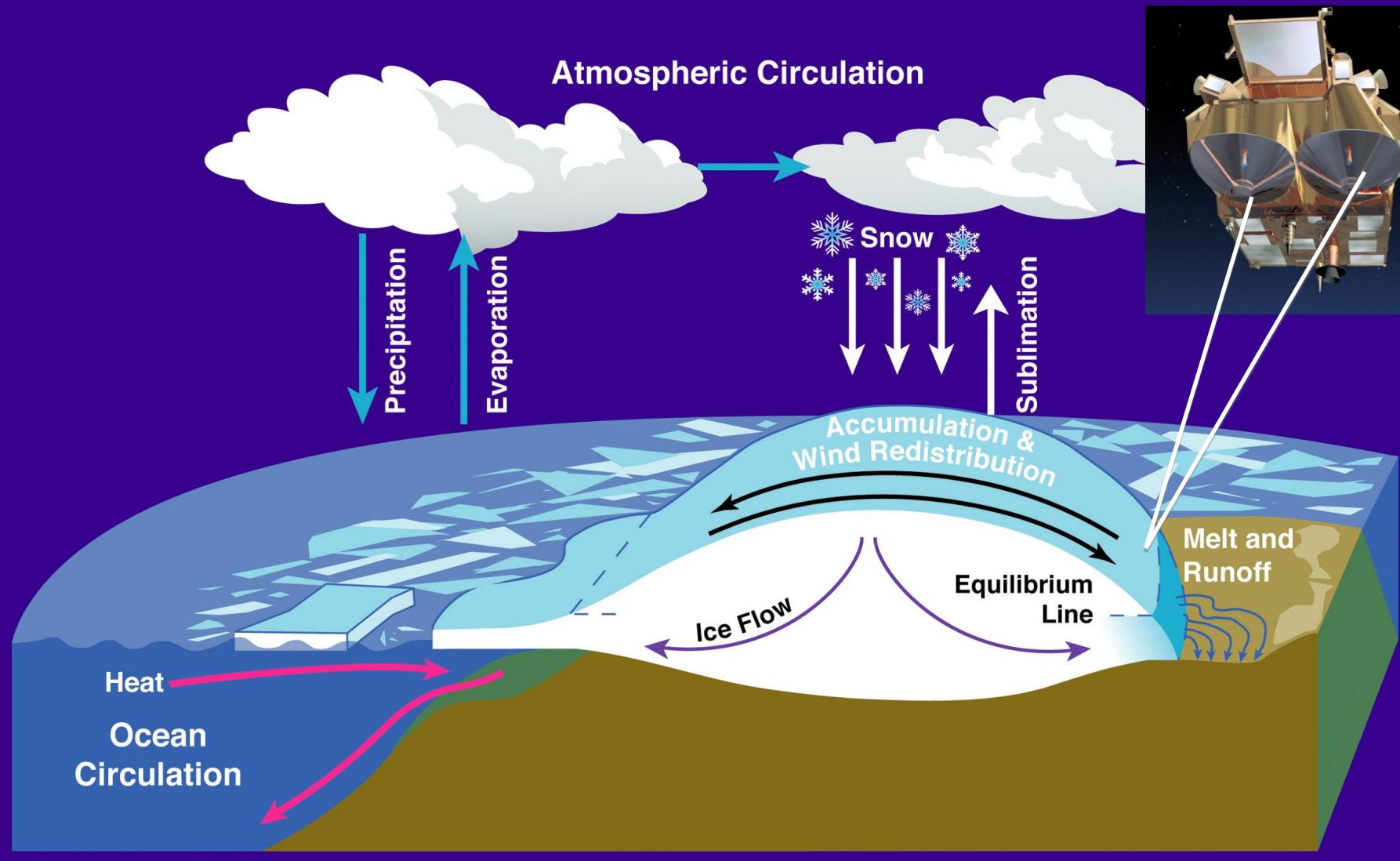
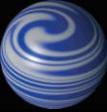


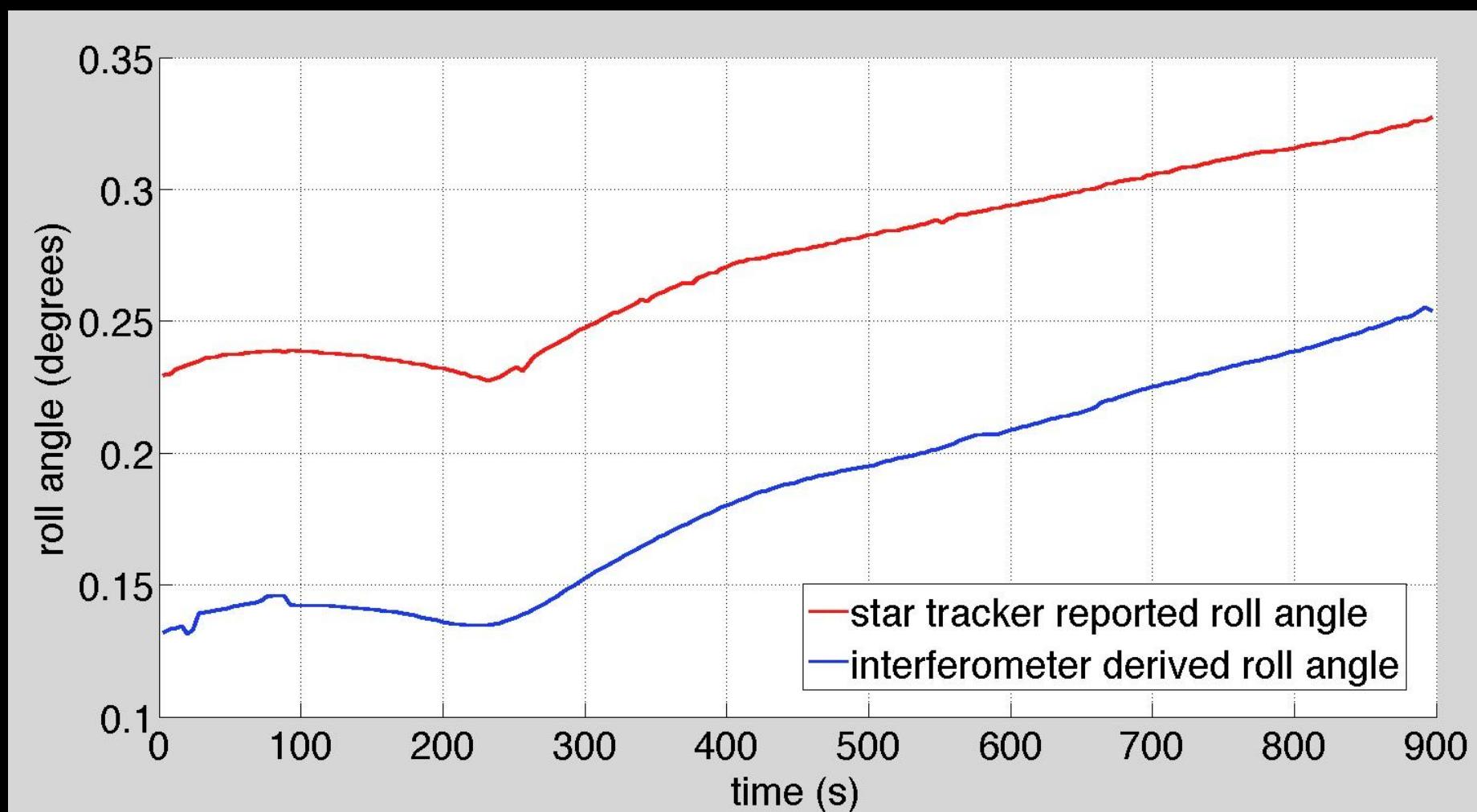
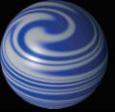
[Kwok, et al., *JGR*, 2009]

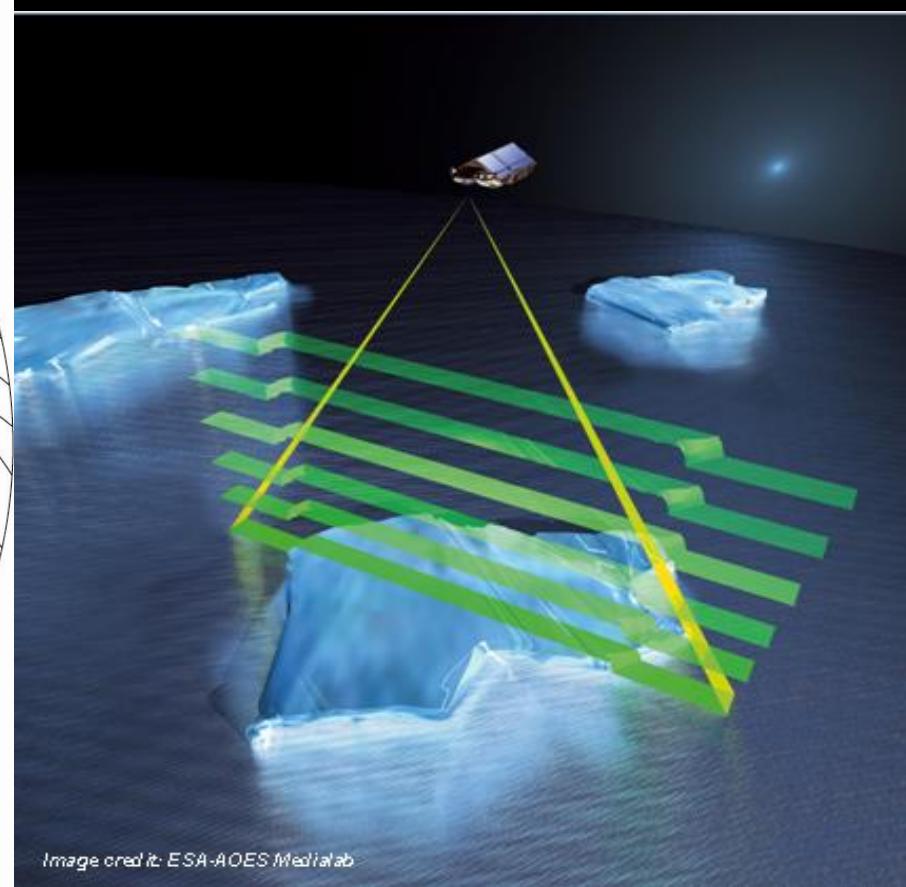
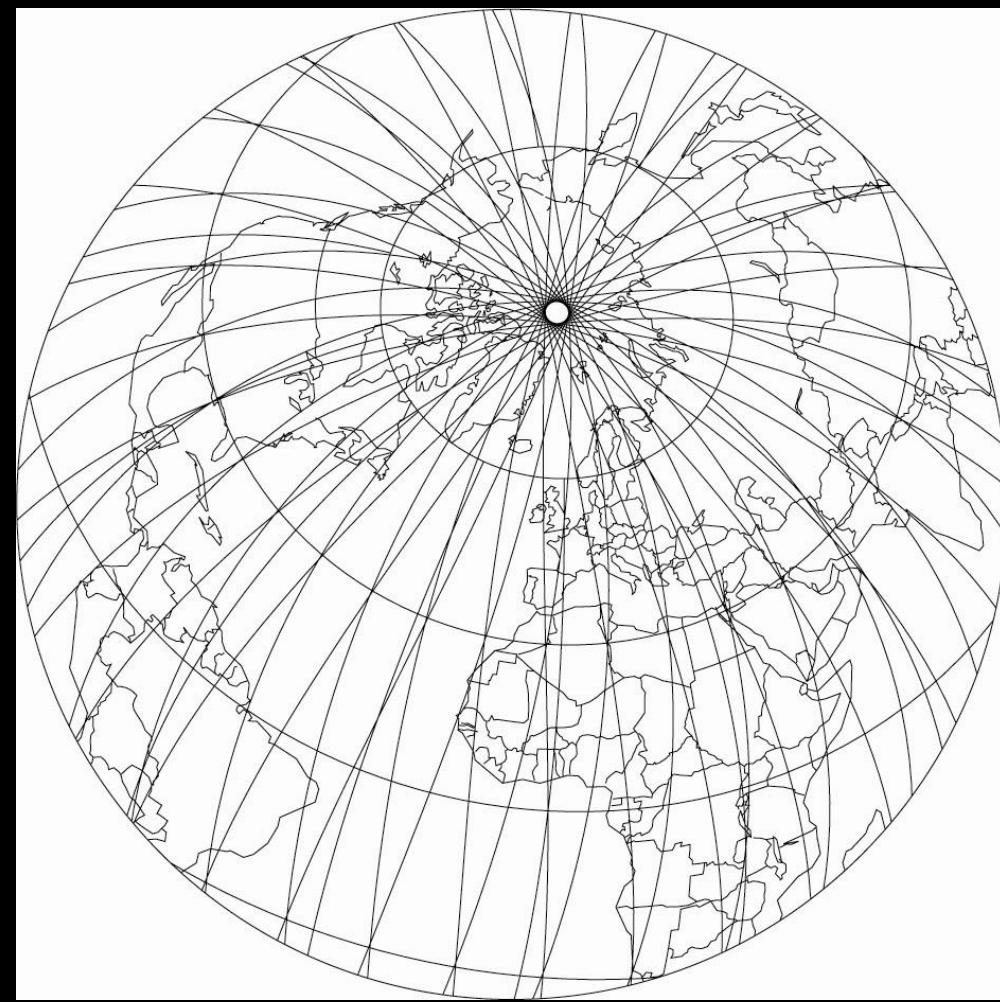
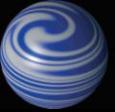


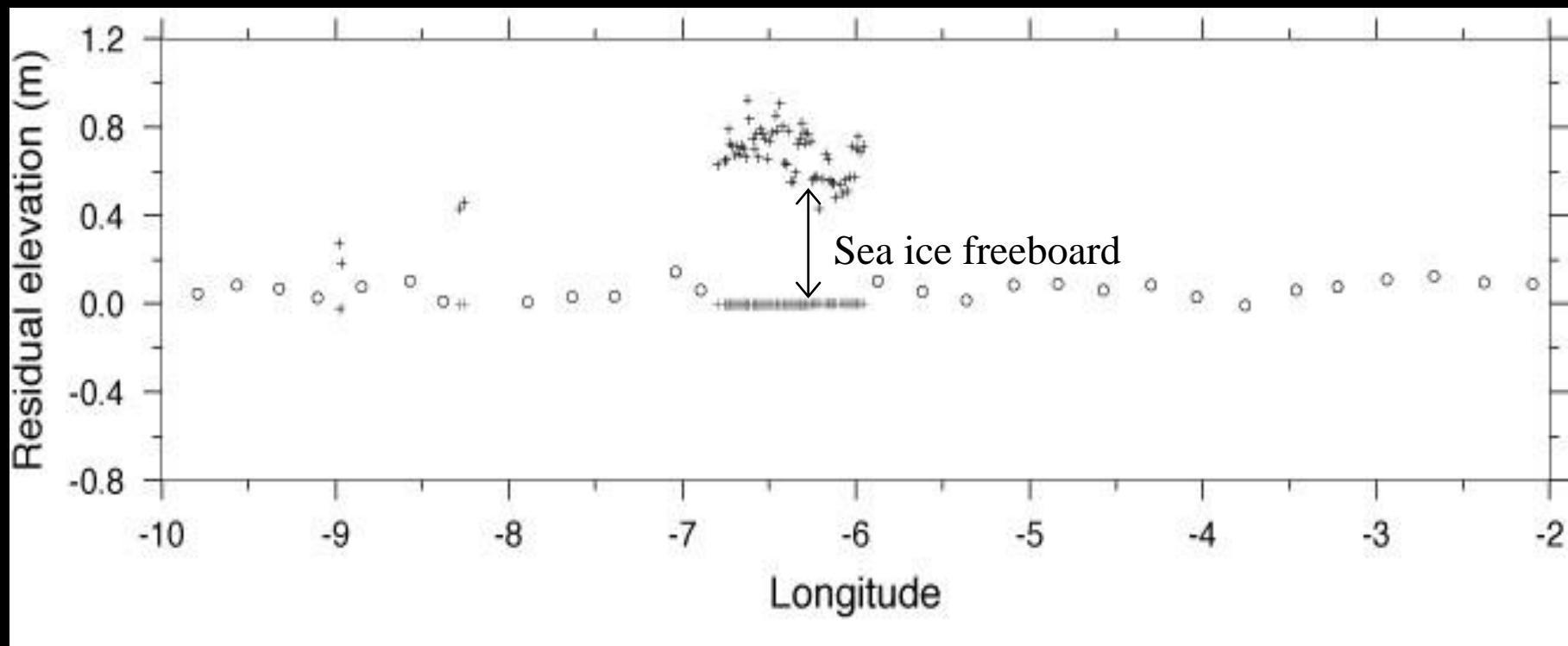
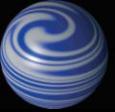
[Giles, et al., *GRL*, 2008]







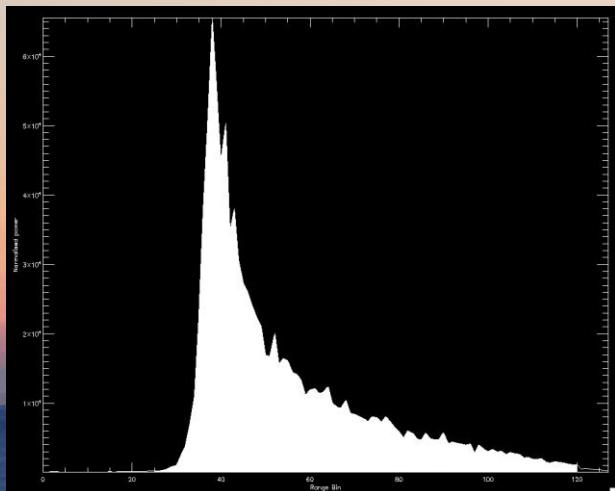






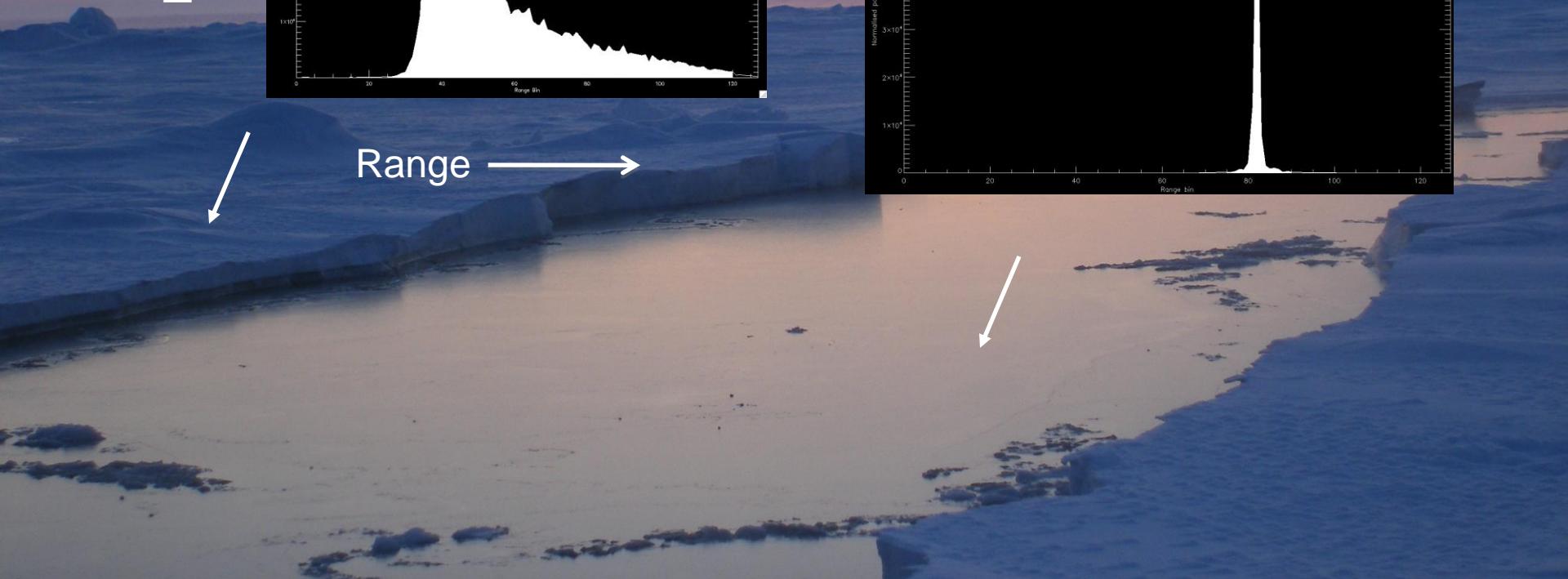
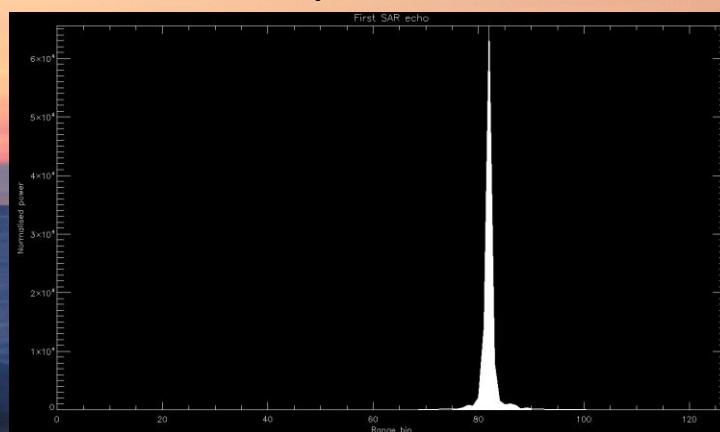
Diffuse return

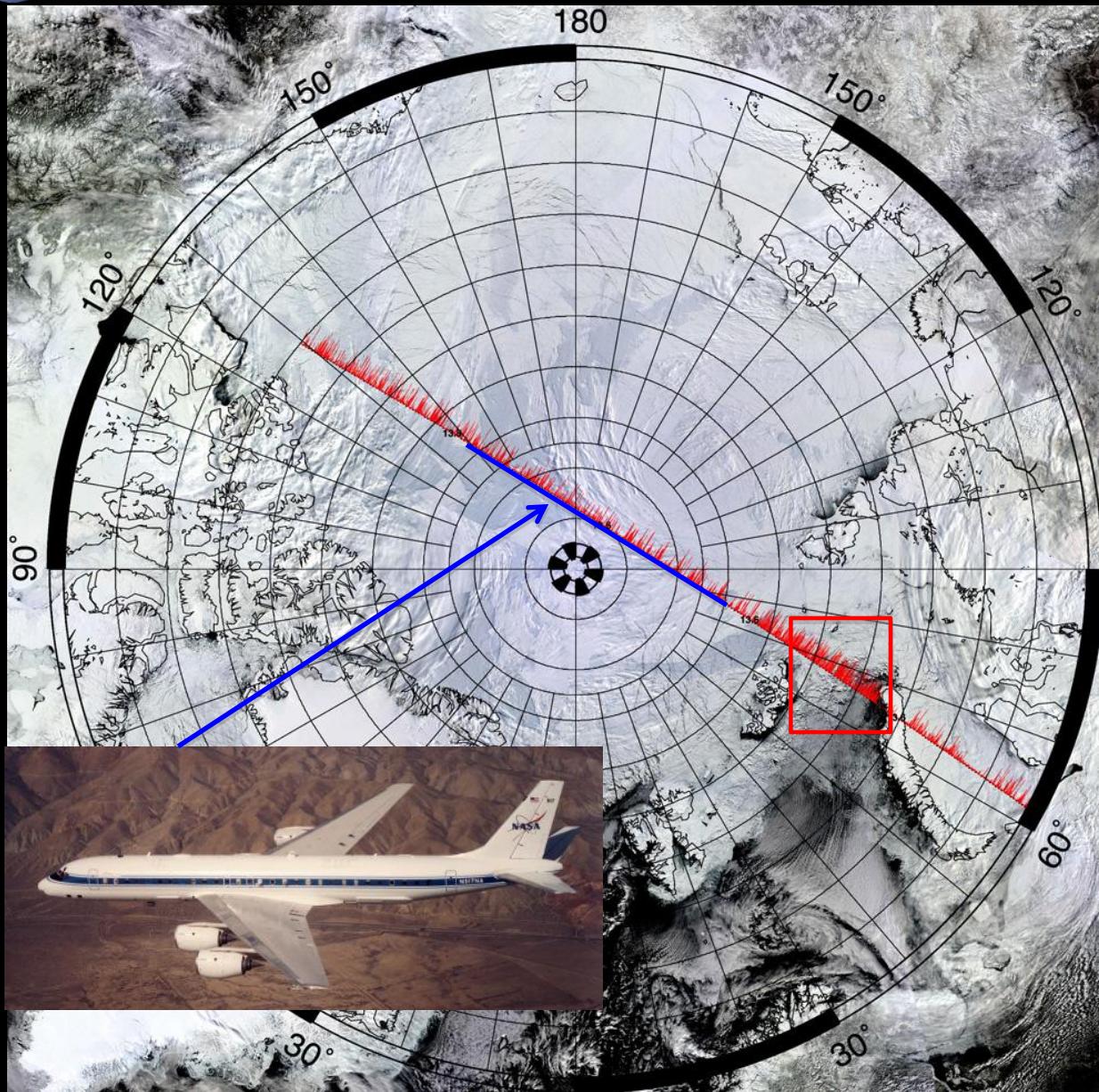
Power ↑



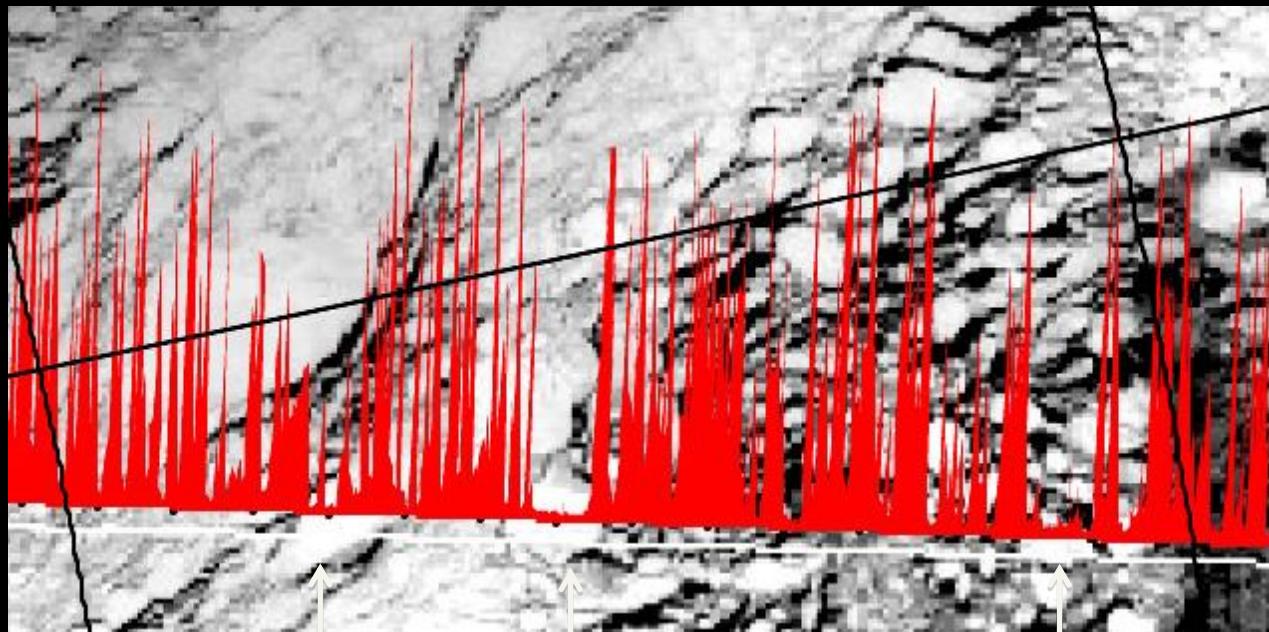
Range →

Specular return





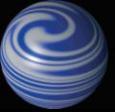
- Echo Shape from stack SD:
Low = Diffuse
High = Specular



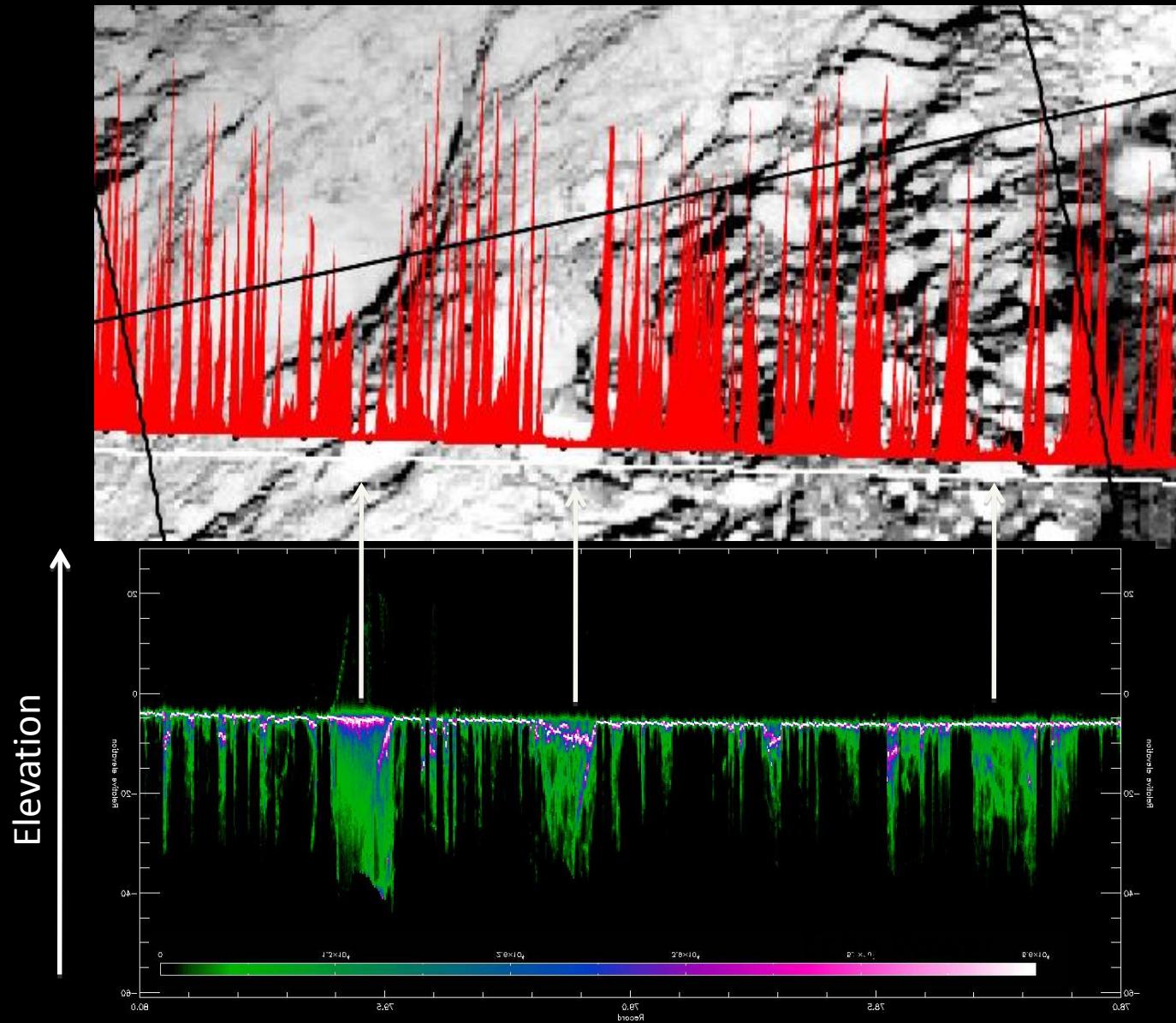
Floe

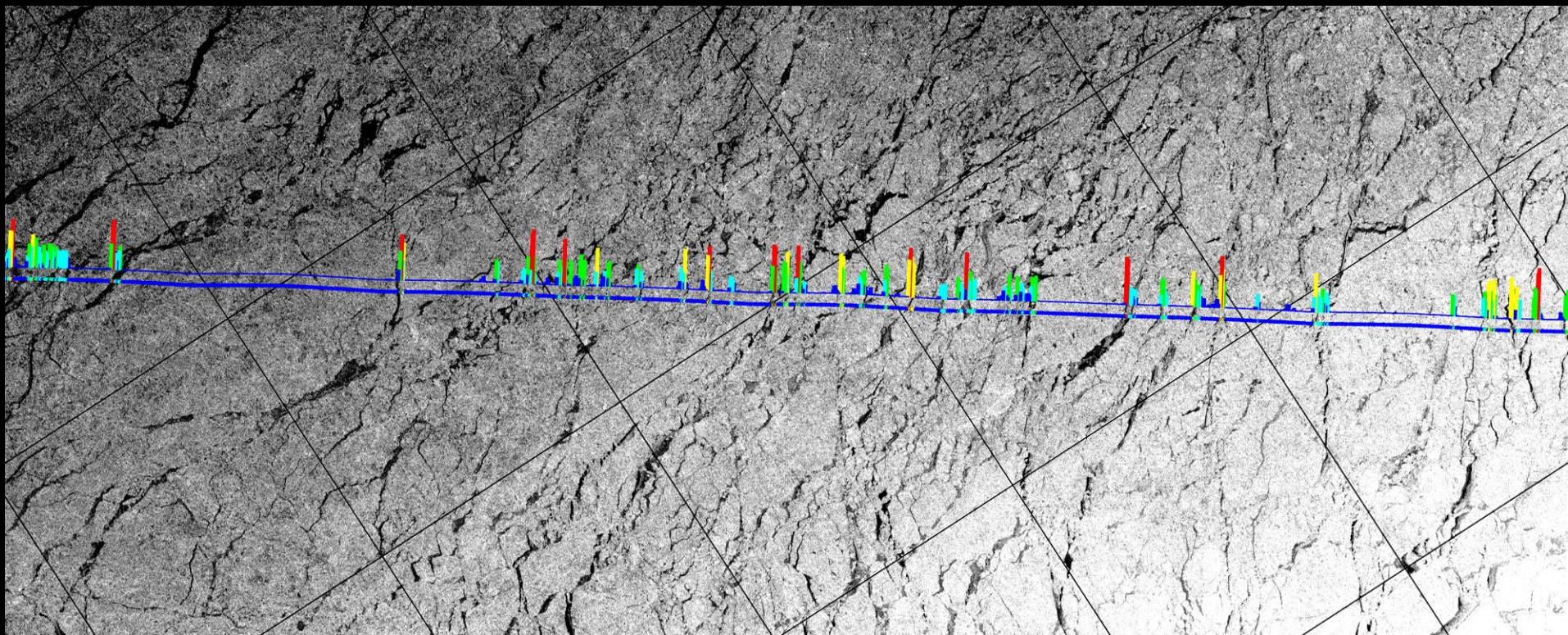
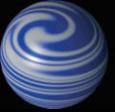
Floe

Floe

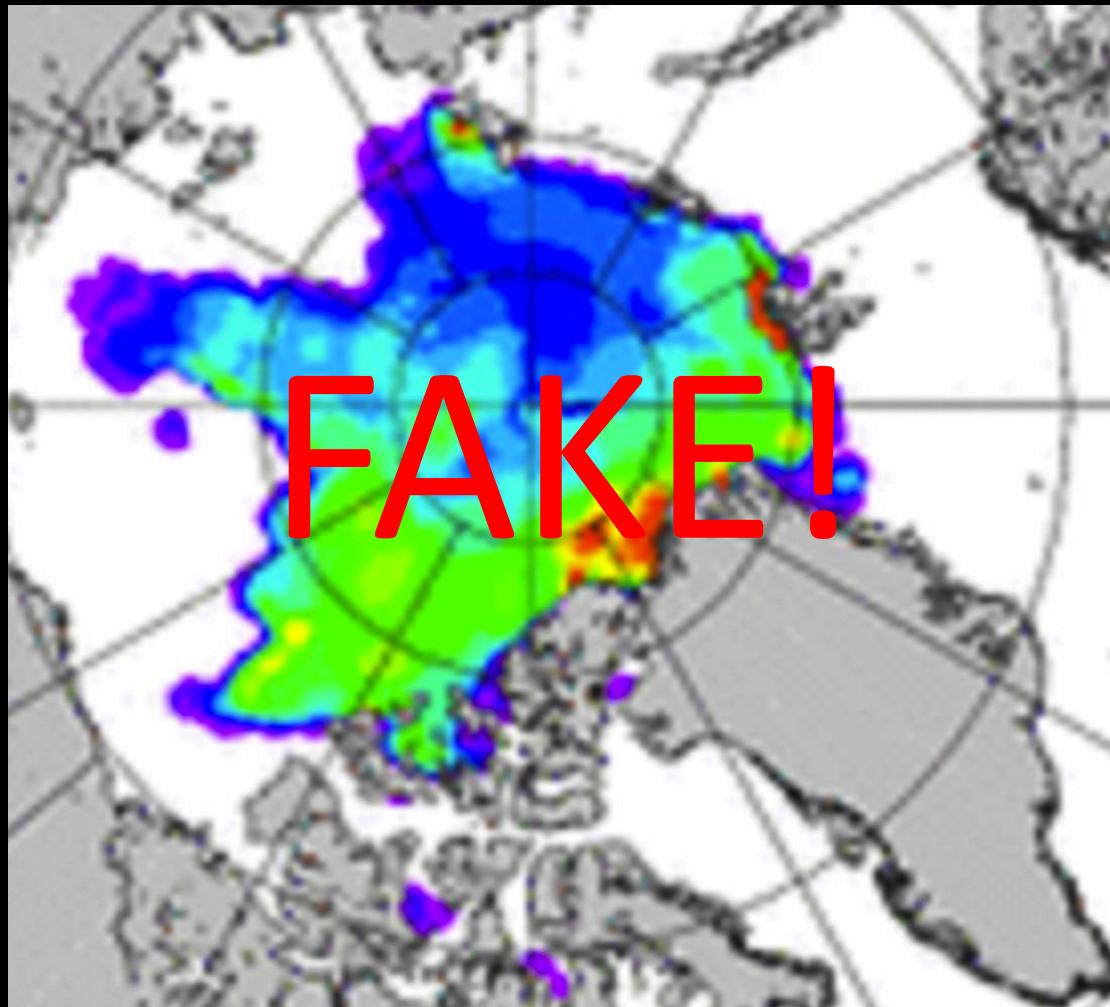
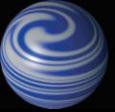


Ice Floes





9 Oct 2010 UTC 1837

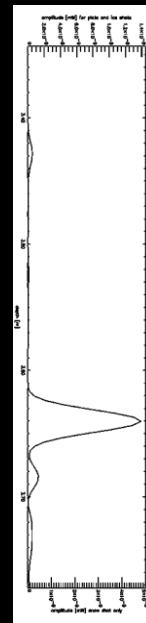
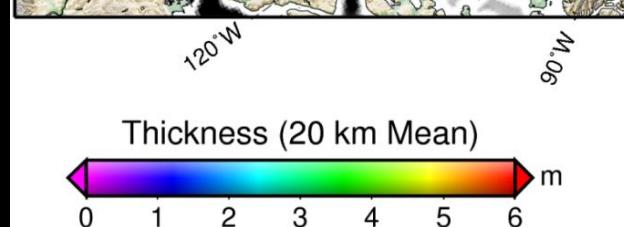
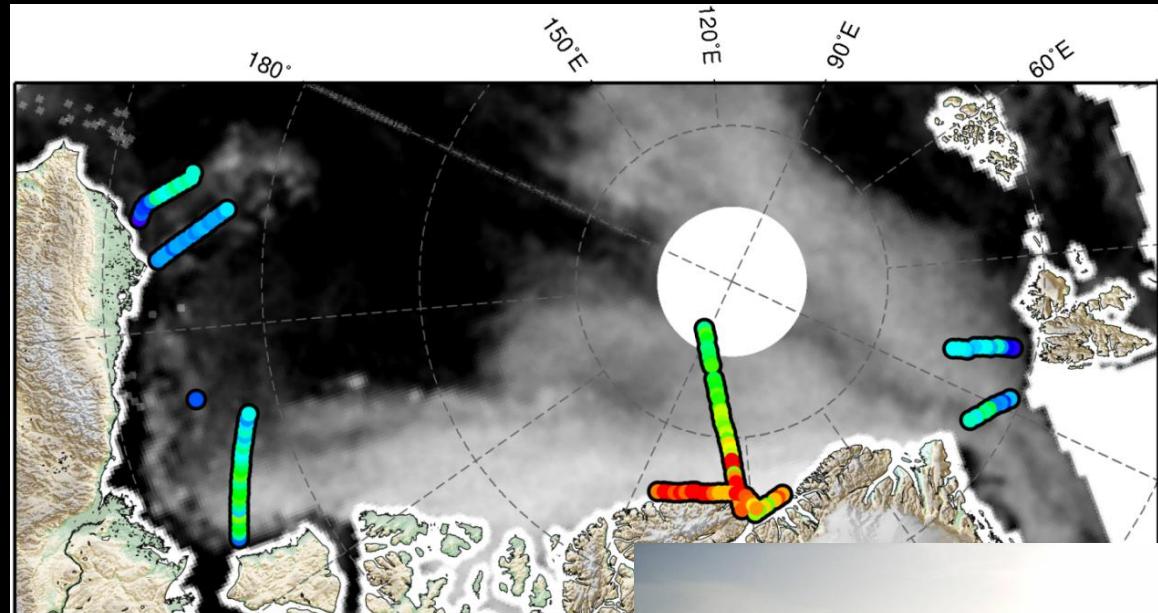
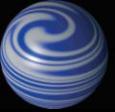


esa

cryosat-2

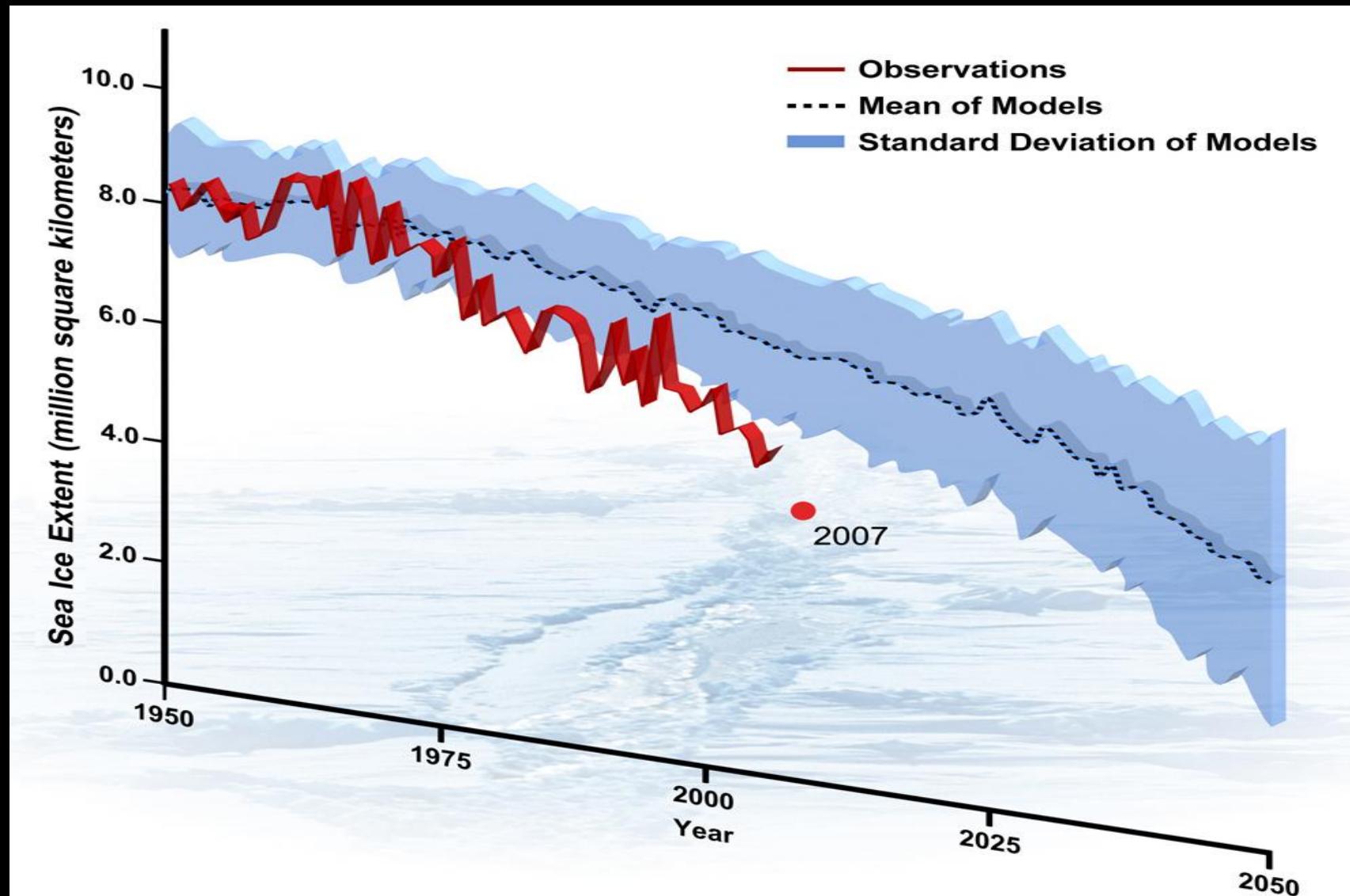
Arctic sea ice thickness for 09/10/2010

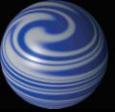






Sea Ice Extent 2007

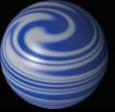




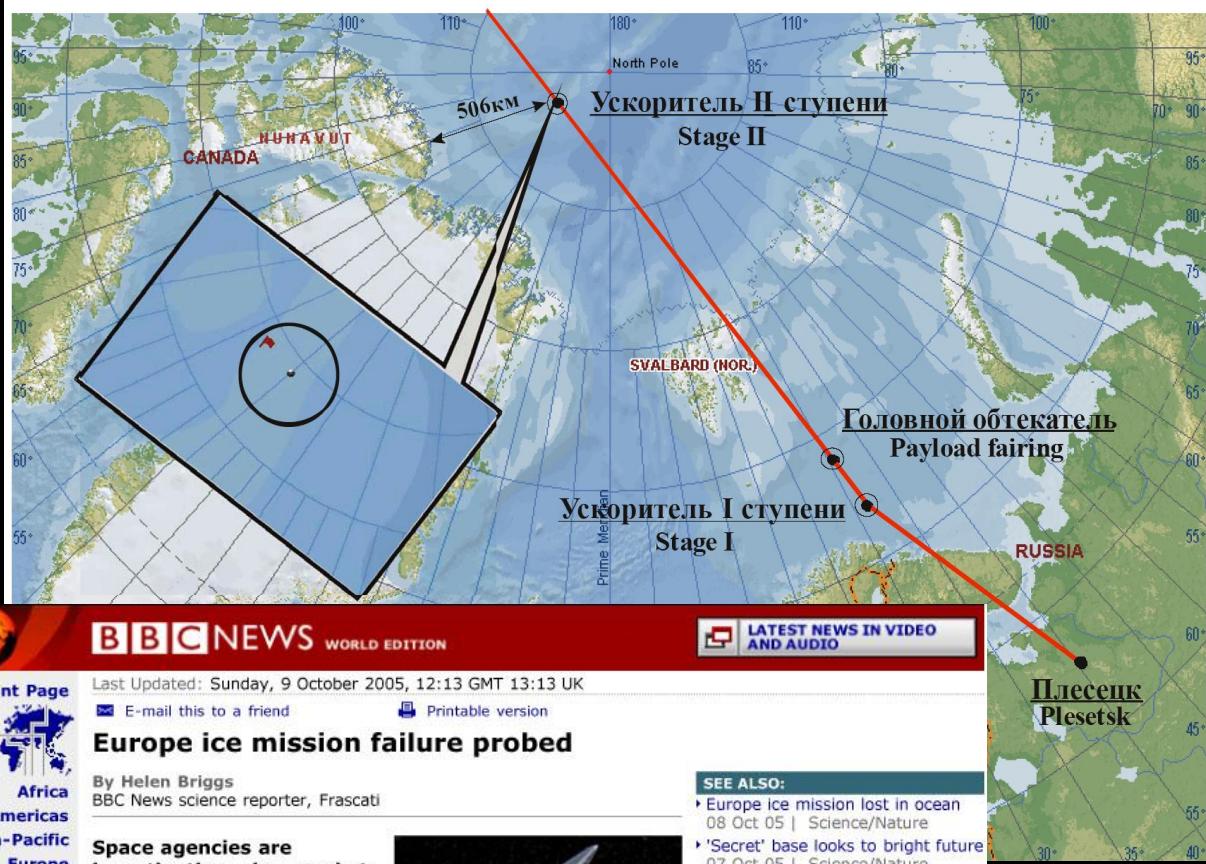
CryoSat-1

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CryoSat-1



BBC NEWS WORLD EDITION

Last Updated: Sunday, 9 October 2005, 12:13 GMT 13:13 UK

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Europe ice mission failure probed

By Helen Briggs
BBC News science reporter, Frascati

Space agencies are investigating why a rocket carrying a European mission to map polar ice fell into the ocean.

The European Space Agency's Cryosat spacecraft was lost minutes after lift-off from the Plesetsk Cosmodrome in northern Russia on Saturday.

How the Cryosat launch should have worked

Russian officials say an error caused the rocket's second stage to run out of fuel, so it could not eject the satellite.

The £90m (135m euro) craft was designed to monitor how the Earth's ice masses are responding to climate change.

SEE ALSO:

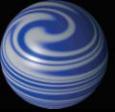
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- 'Cryosat' base looks to bright future 07 Oct 05 | Science/Nature
- Earth - melting in the heat? 07 Oct 05 | Science/Nature
- Q&A: Europe's ice mission 06 Oct 05 | Science/Nature
- UK scientists await ice mission 03 Oct 05 | Science/Nature
- Ice mission almost set for launch 22 Jul 05 | Science/Nature

RELATED INTERNET LINKS:

- Cryosat (Esa)
- ICESat
- Eurockot
- Centre for Polar Observation and Modelling

The BBC is not responsible for the





Cryosat-2 April 2010





The End

A large, white, sans-serif font displays the words "The End" in the center of the slide. The background is a photograph of a coastal landscape at sunset or sunrise. The sky is filled with warm orange and yellow hues, transitioning to darker blues and purples at the horizon. In the foreground, there's a mix of bright, sunlit land and dark, shadowed areas, possibly water or vegetation. The overall atmosphere is serene and suggests a conclusion.