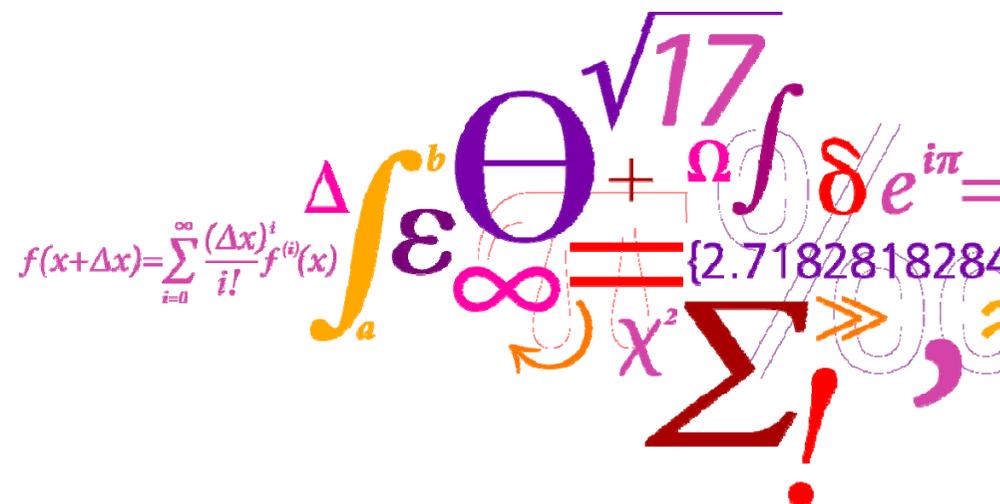


The DTU13 Global mean sea surface from 20 years of satellite altimetry

Ole B. Andersen, Per Knudsen & Lars Stenseng



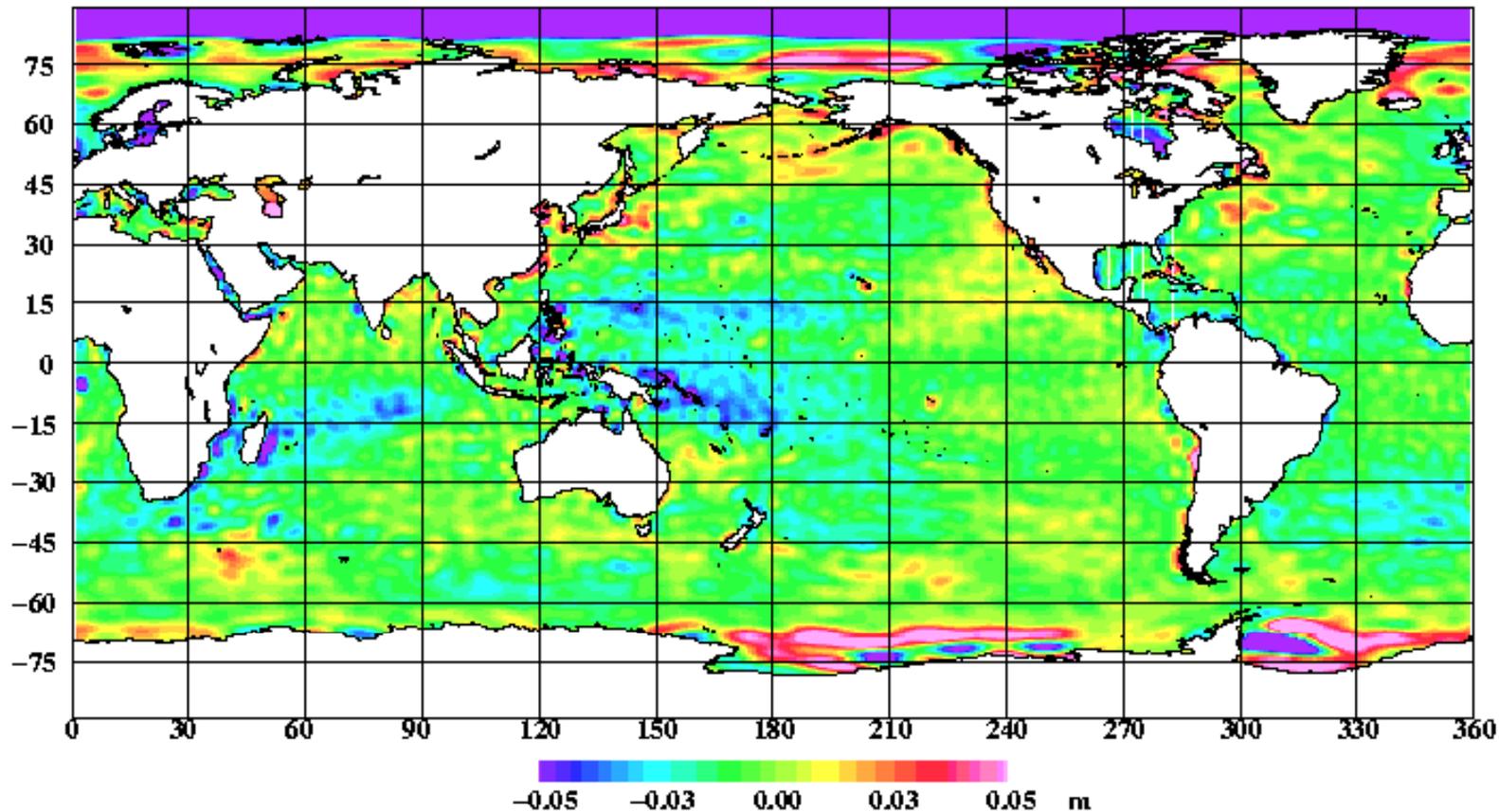
The DTU13MSS

20 Year Mean T/X-J1 + J2 profiles

RMS is < 1 cm exceeding 10 cm only

north of Greenland and in the Weddel sea

DTU13-DTU10

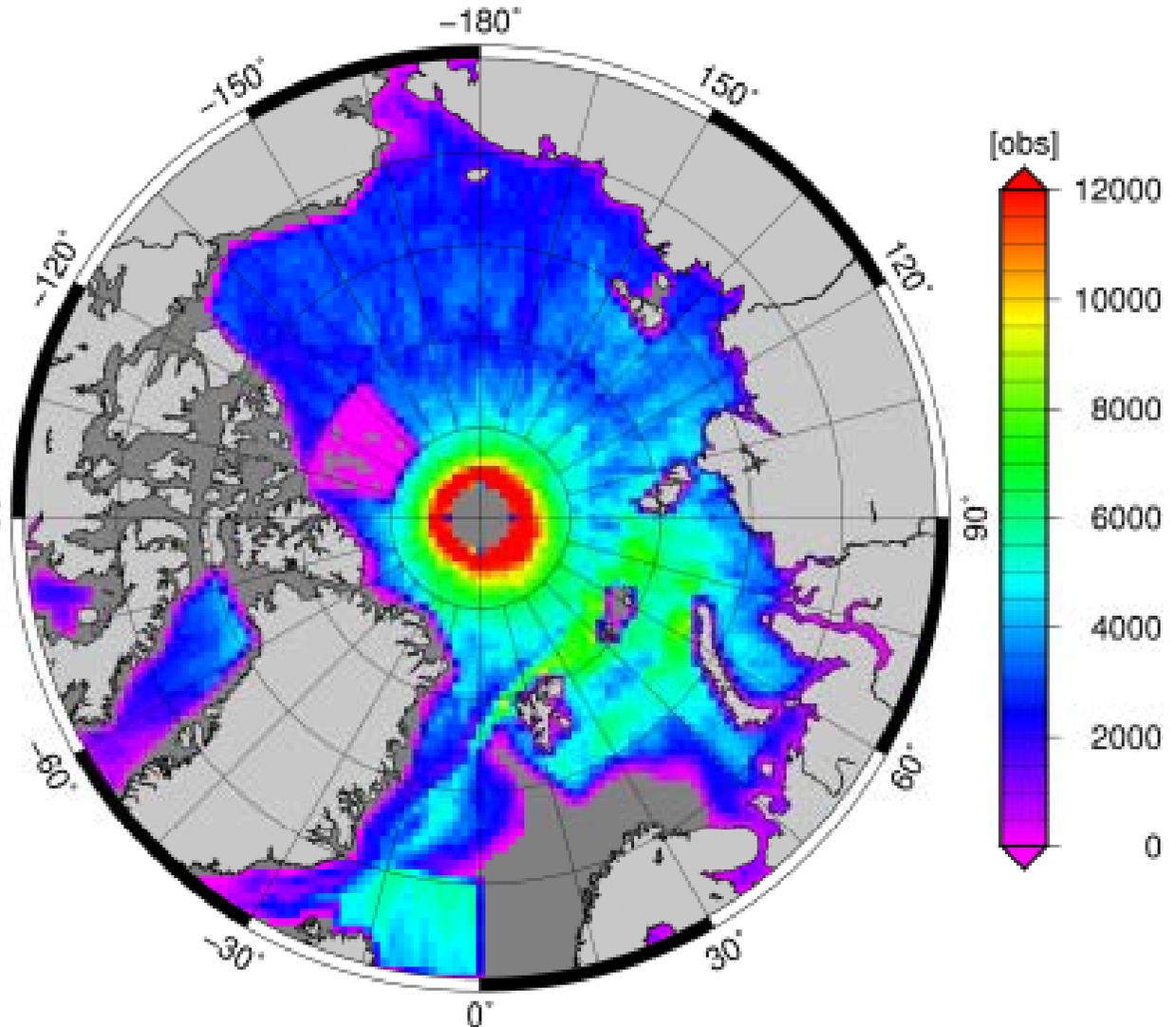
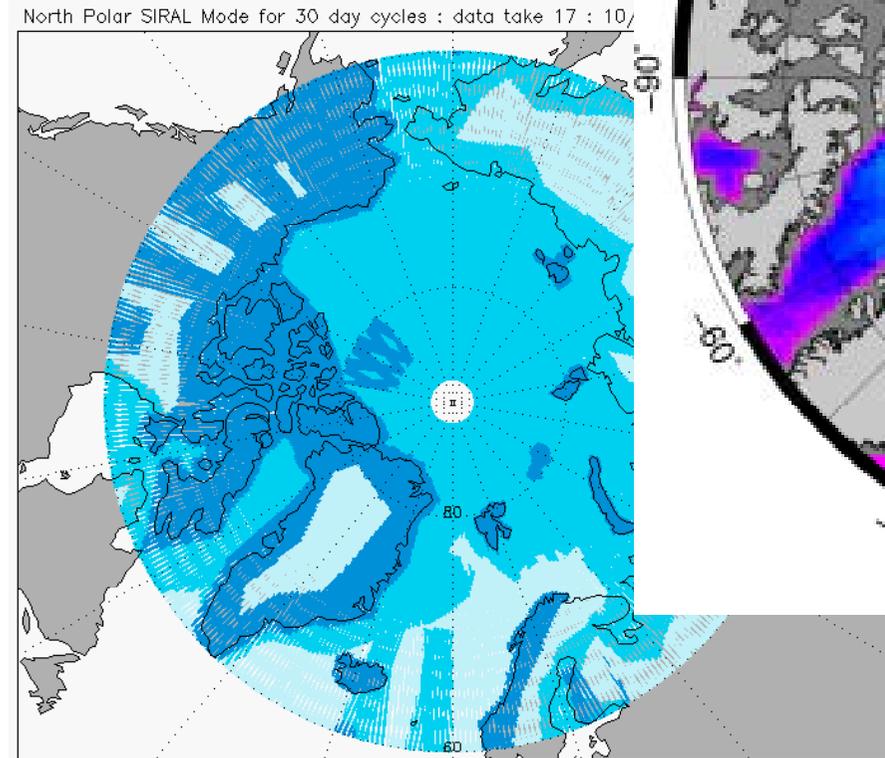


Global long wavelength adjustment to DTU10.

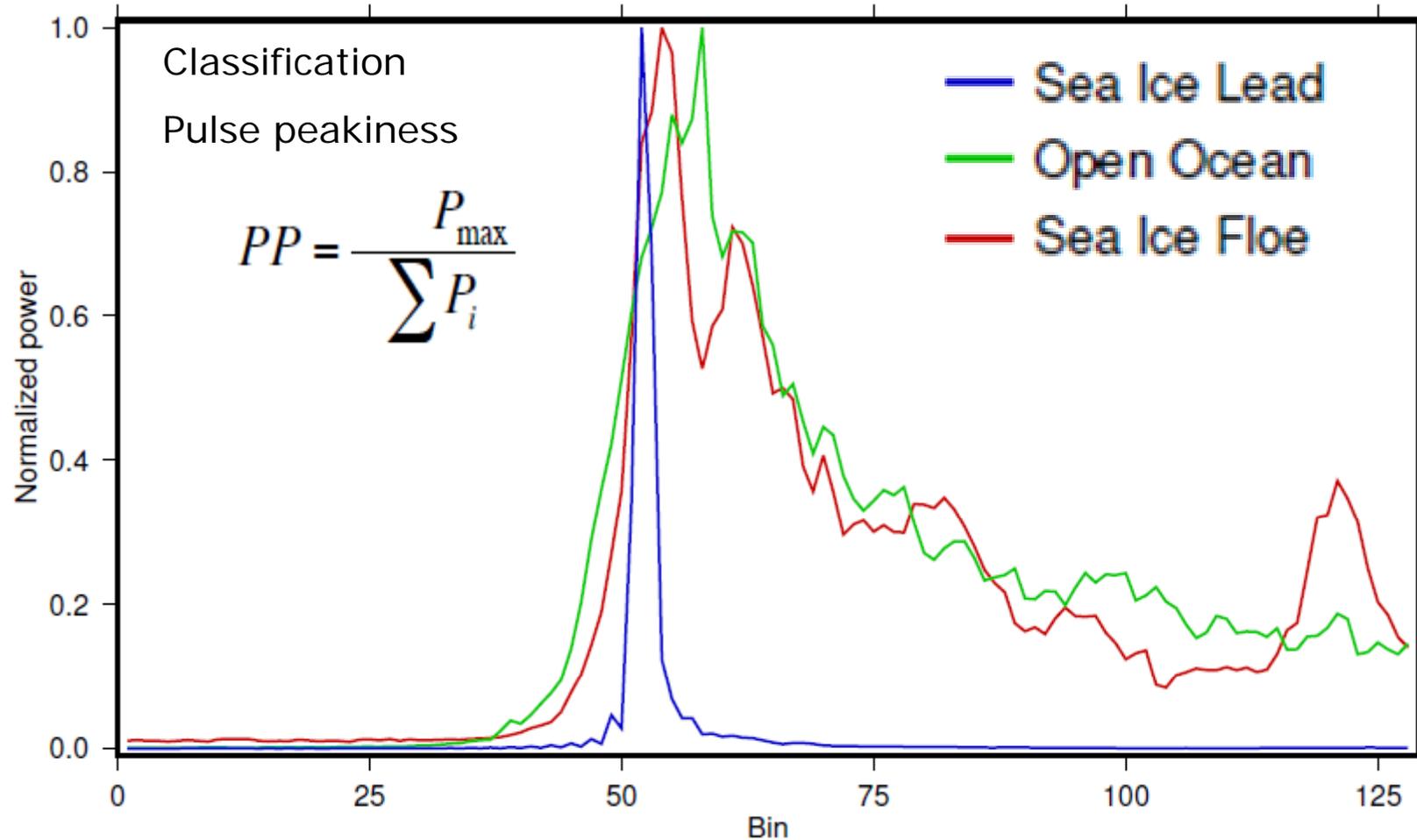
Unfortunately no pictures of short wavelength improvement (significant)

Arctic:

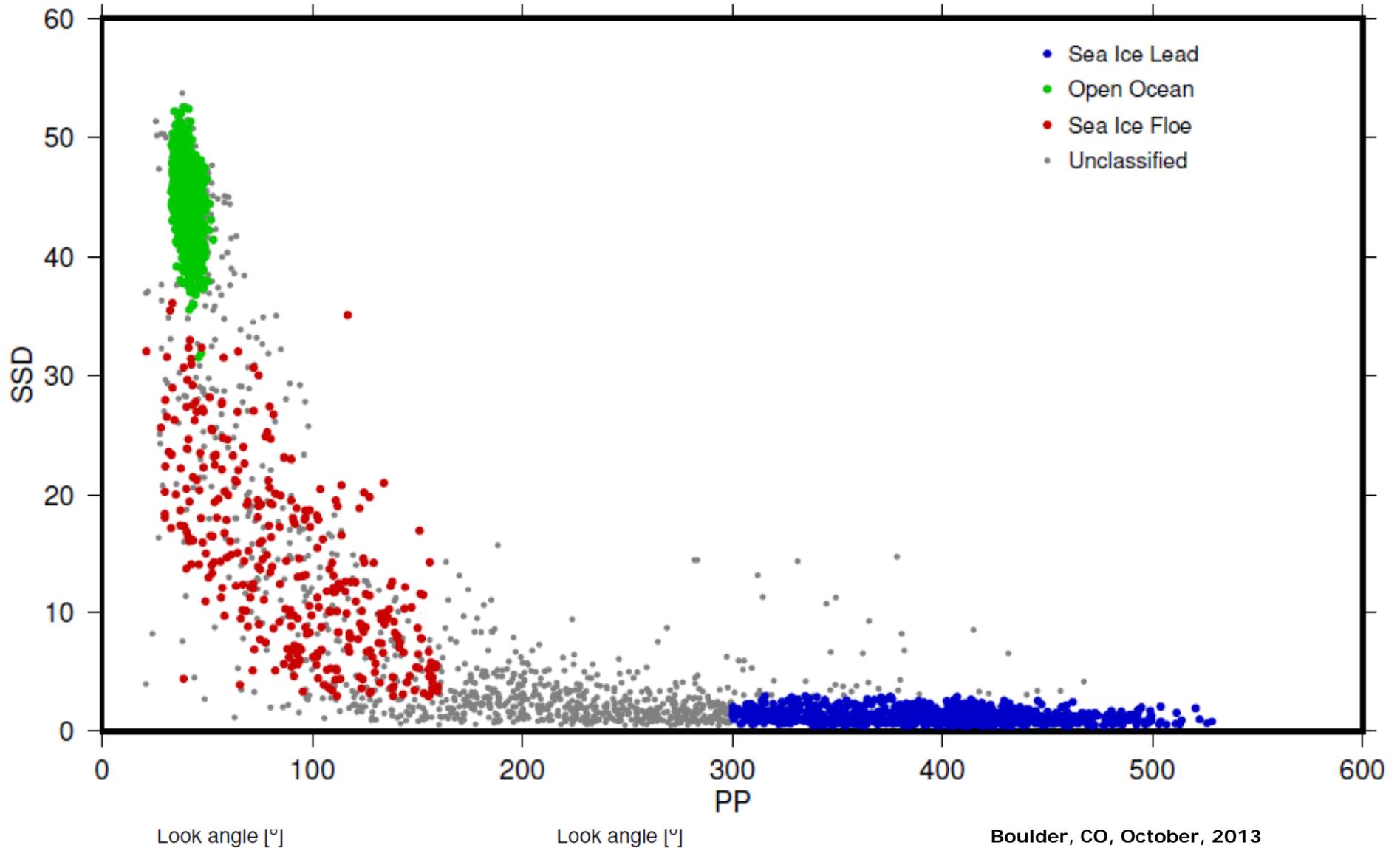
Cryosat-2 20 Hz SAR L1B (2012)



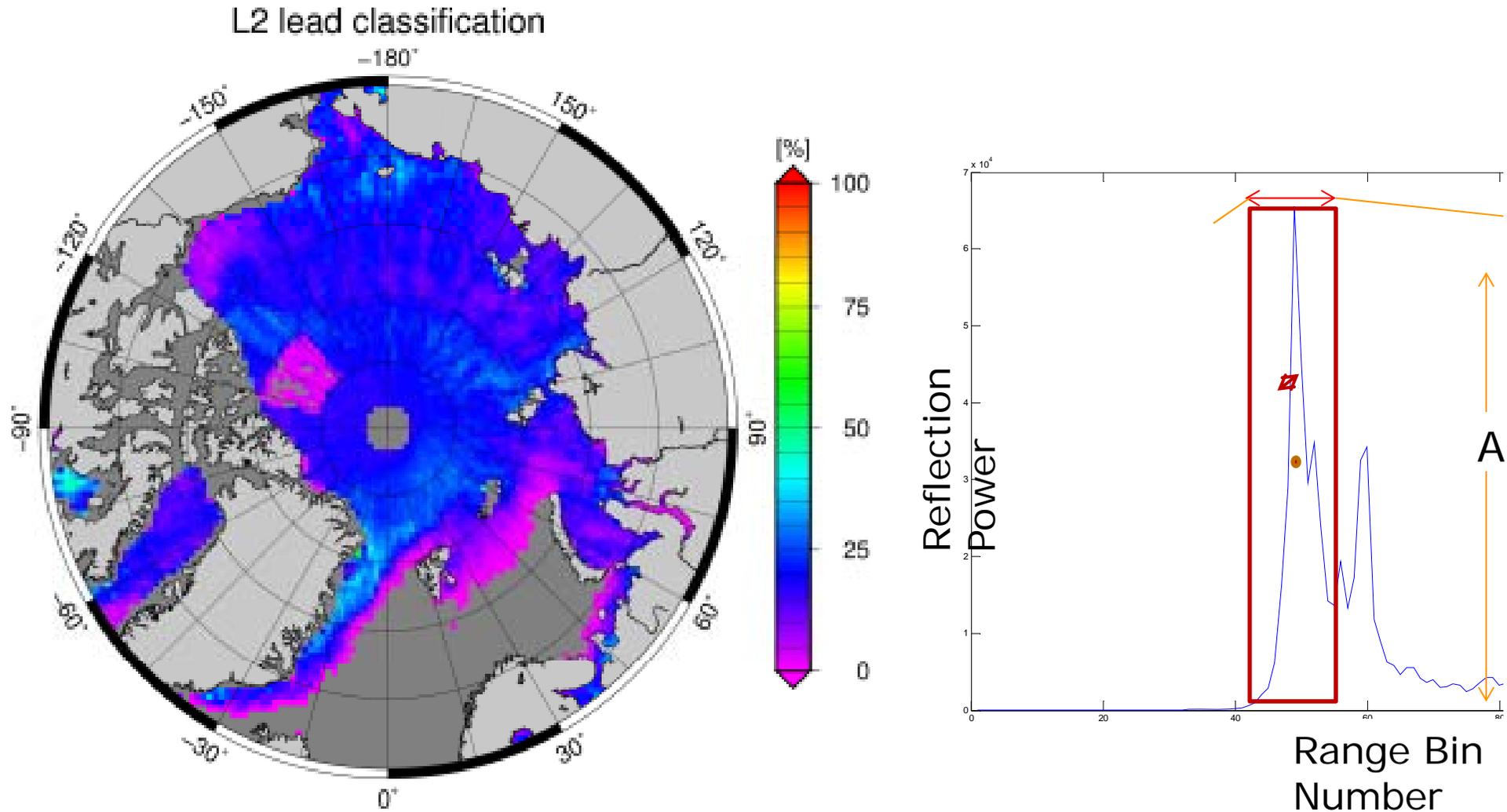
Look for Peaky waveforms = leads open water in between ice-floes.



Classification for SAR data: Stack Standard Deviation



Using 20 Hz L1B (2012)



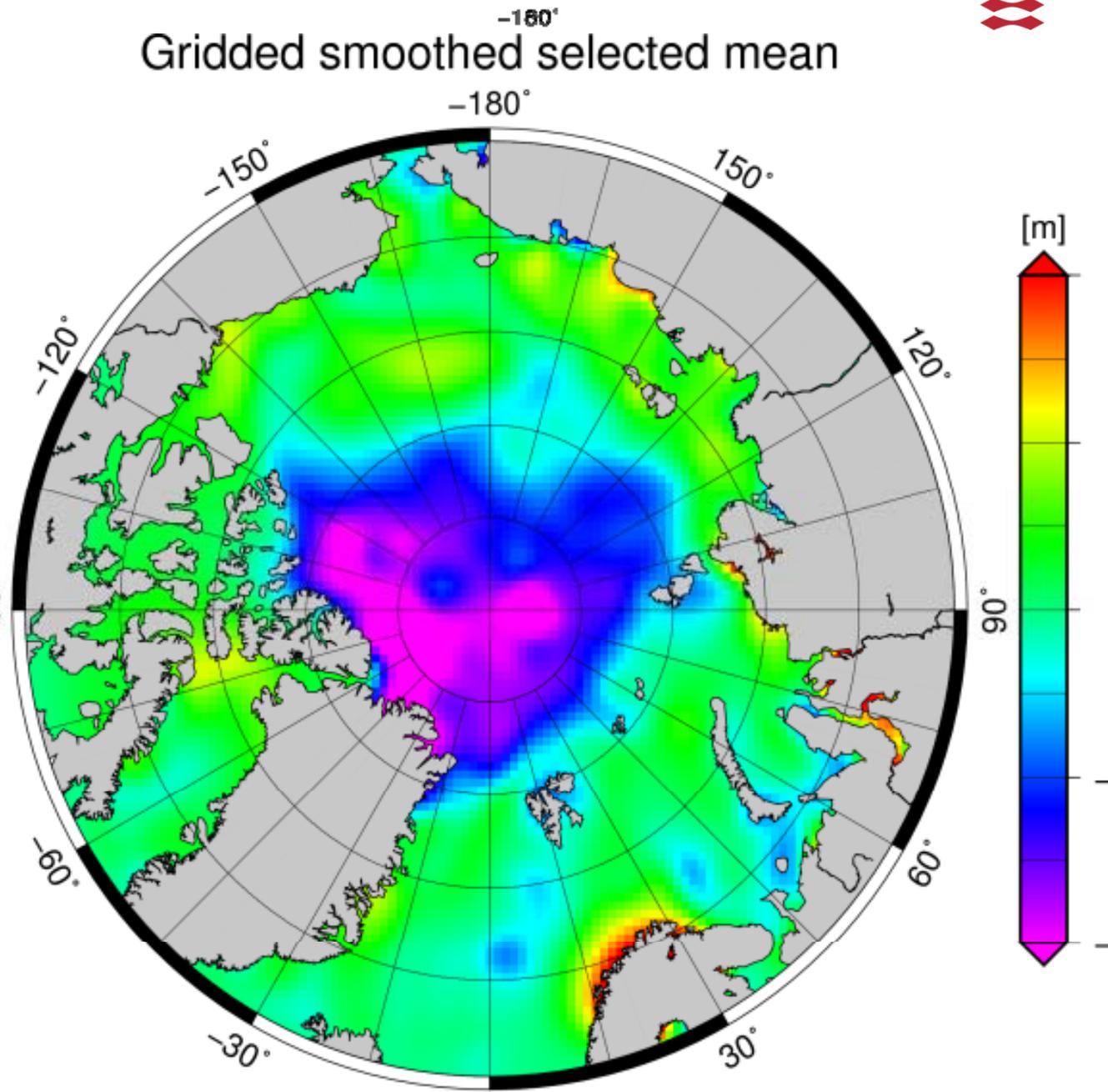
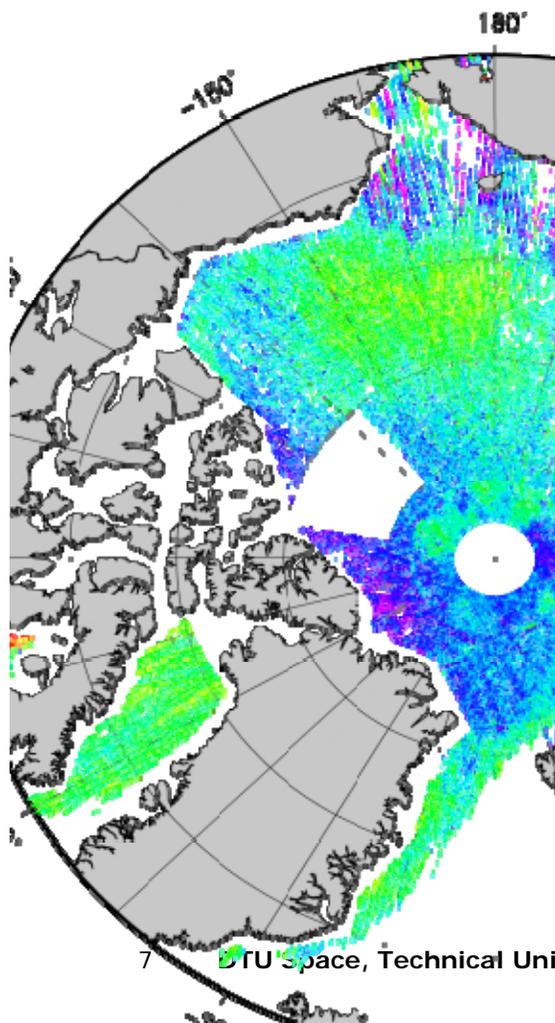
Processed all C-2 Lead data retracked using DTU gaussian Peak retracker.

DTU13MSS

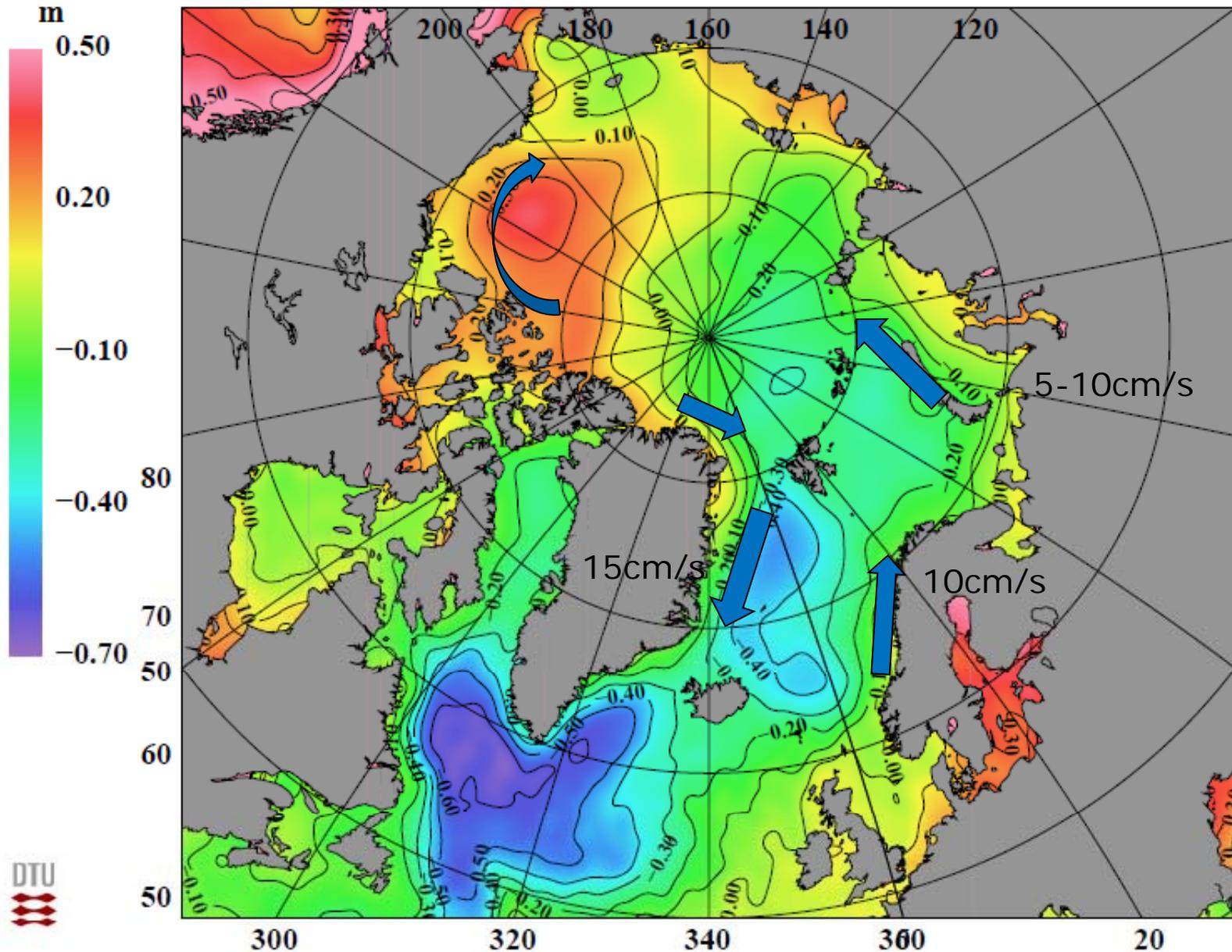


C2 2012 Arctic lead d
relative to existing M

Gridded smoothed selected mean



DTU13MDT = Filtered(DTU13MSS-Eigen6C1)



Summary



- DTU13MSS is available
 - Resolution: 1 minute by 1 minute (2 km by 2 km)
 - True global fields (90°S to 90°N)

J1+C2 Tripled the amount of "Geodetic Mission" Data.
Improved short wavelength MSS recovery with J1 and C2.

- Internet point of download (coming soon):
- (Sorry I need to perform the last checking.....)

FTP: [ftp.space.dtu.dk/pub/DTU13](ftp://ftp.space.dtu.dk/pub/DTU13)
WWW: www.space.dtu.dk

Contact Ole B. Andersen oa@space.dtu.dk