



Supplement of

Simultaneous estimation of wintertime sea ice thickness and snow depth from space-borne freeboard measurements

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Supplementary figures

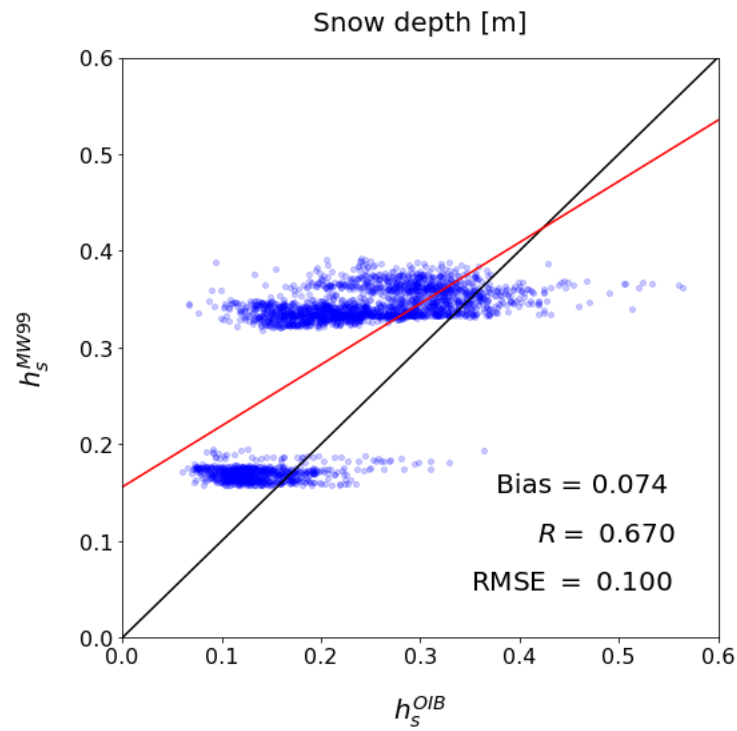


Figure S1. Comparison between OIB snow depth (h_s^{OIB}) and MW99 (h_s^{MW99}) during March of 2011-2015 period. The red line is a linear regression line.

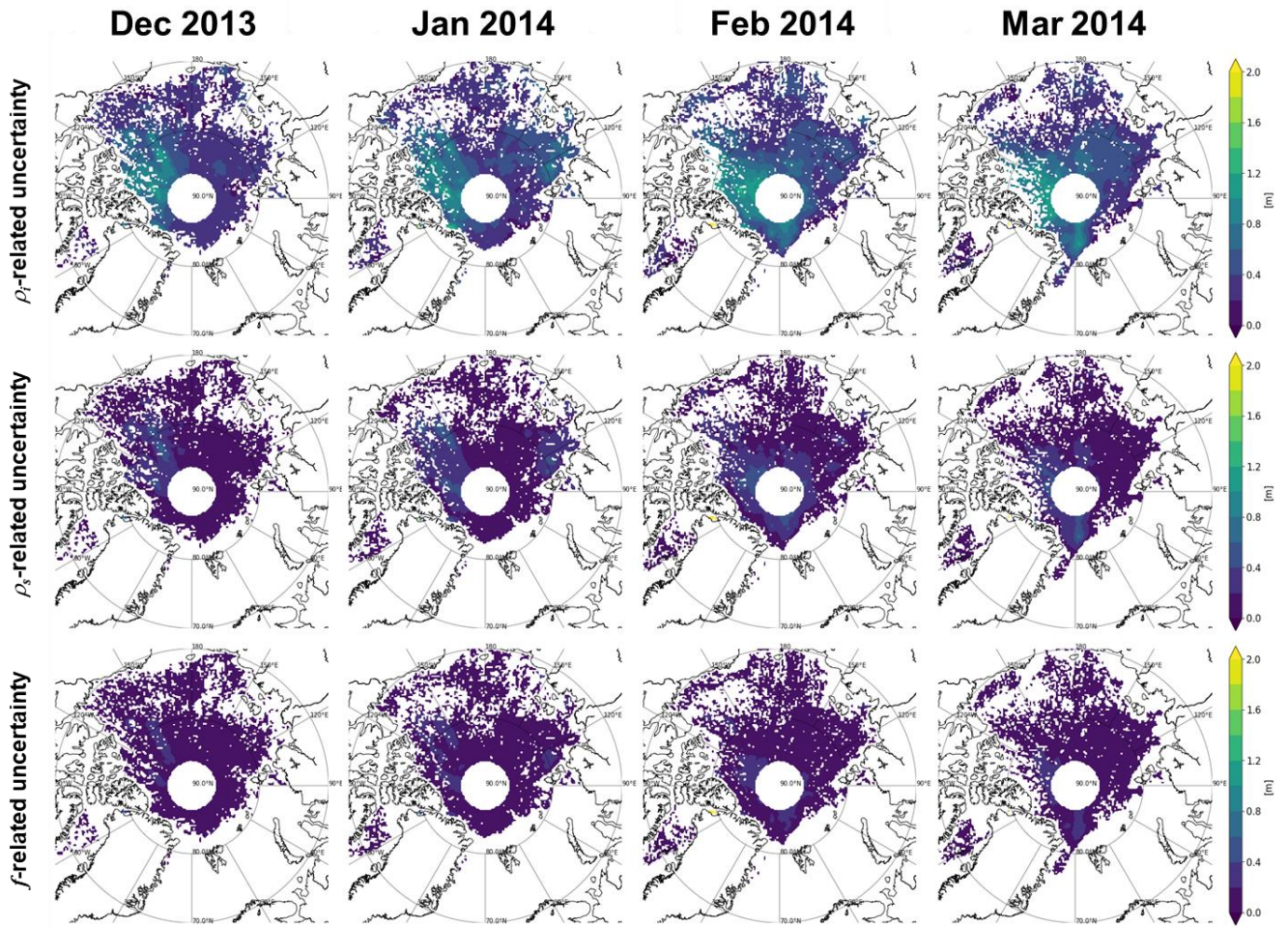
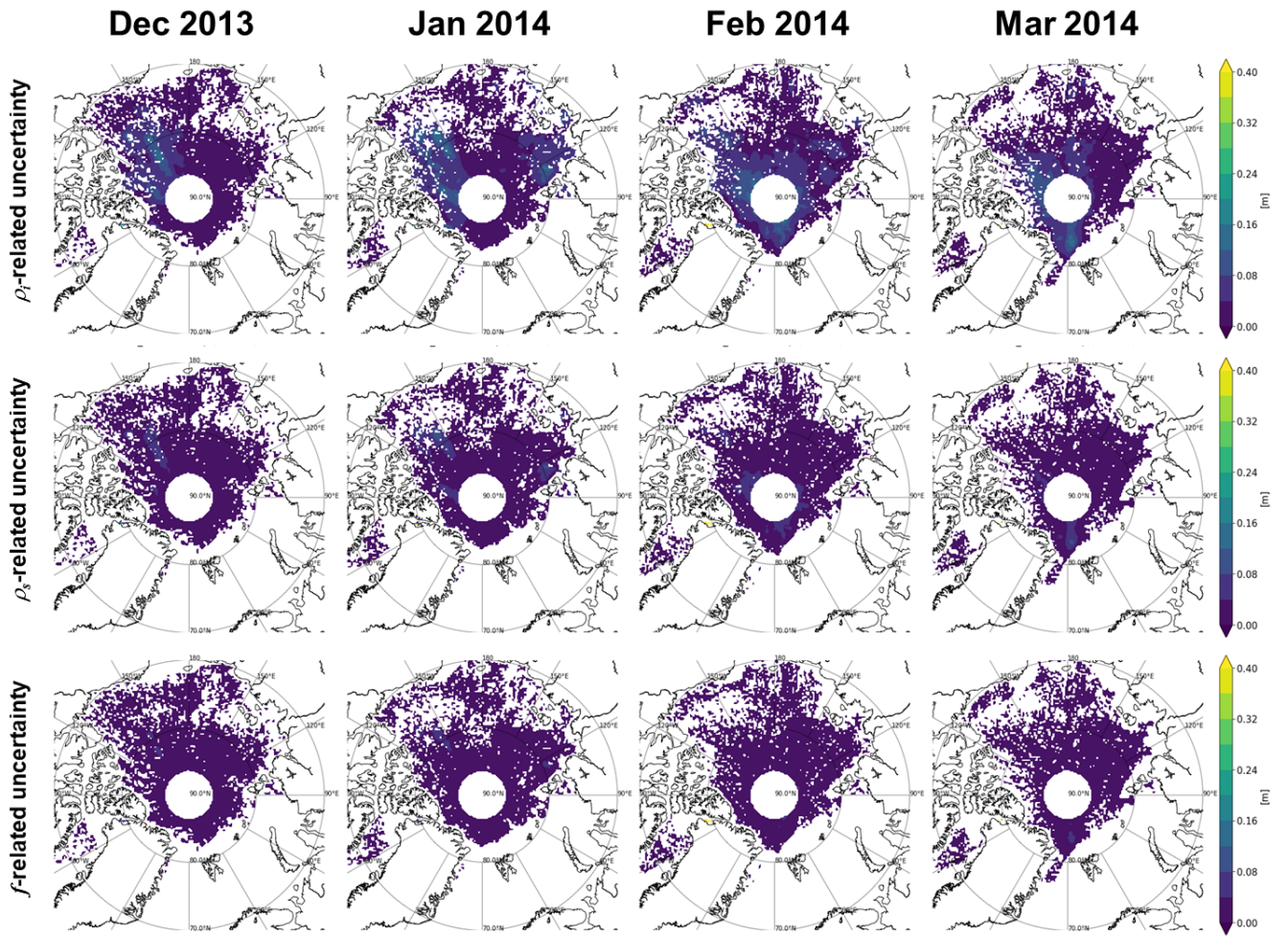


Figure S2. Geographical distributions of sea ice thickness uncertainty: (first row) ρ_i -related uncertainty, (second row) ρ_s -related uncertainty, and (third row) f -related uncertainty for the period from December 2013 to March 2014.



10 **Figure S3.** Geographical distributions of snow depth uncertainty: (first row) ρ_T -related uncertainty, (second row) ρ_S -related uncertainty, and (third row) f -related uncertainty for the period from December 2013 to March 2014.