



*Supplement of*

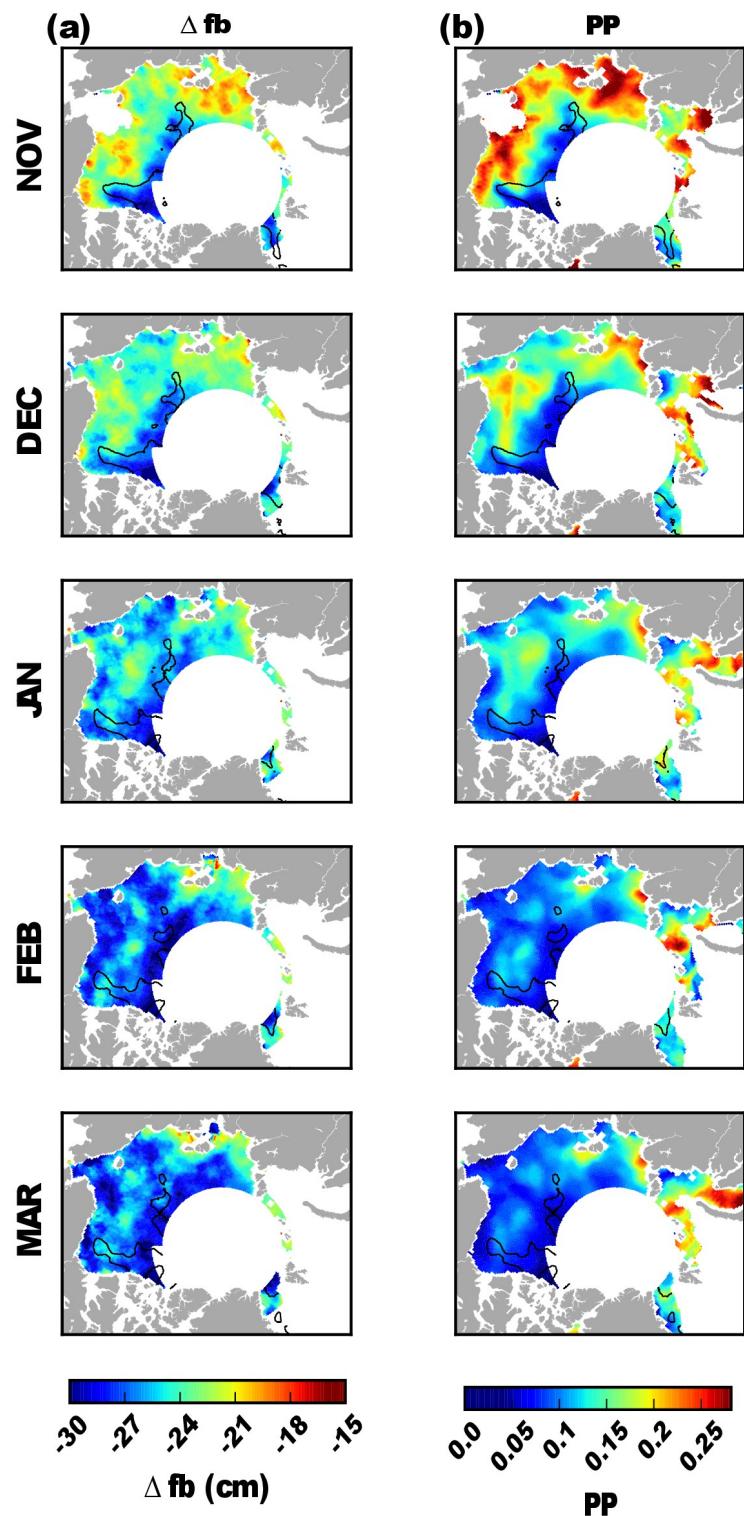
## **Comparison of CryoSat-2 and ENVISAT radar freeboard over Arctic sea ice: toward an improved Envisat freeboard retrieval**

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*S1: (a) Monthly freeboard difference ( $\Delta fb$ ) between Envisat and CryoSat-2 and (b) monthly Envisat pulse peakiness (PP) shown for the November 2011 - March 2012 period. The dark lines represent the isoline MYI fraction equal to 0.7*



S2: (a) Envisat, (b) Envisat/PP and (c) CryoSat-2 monthly freeboard maps shown for the November 2011 - March 2012 period. The dark lines represent the isoline fraction of MYI equal to 0.7. (d) Probability Distribution Function (PDF) of Envisat (blue) and CryoSat-2 (black) radar freeboard.

