

Figure S1. Identical to Fig 1 in the main paper but at a larger scale. Data sources.

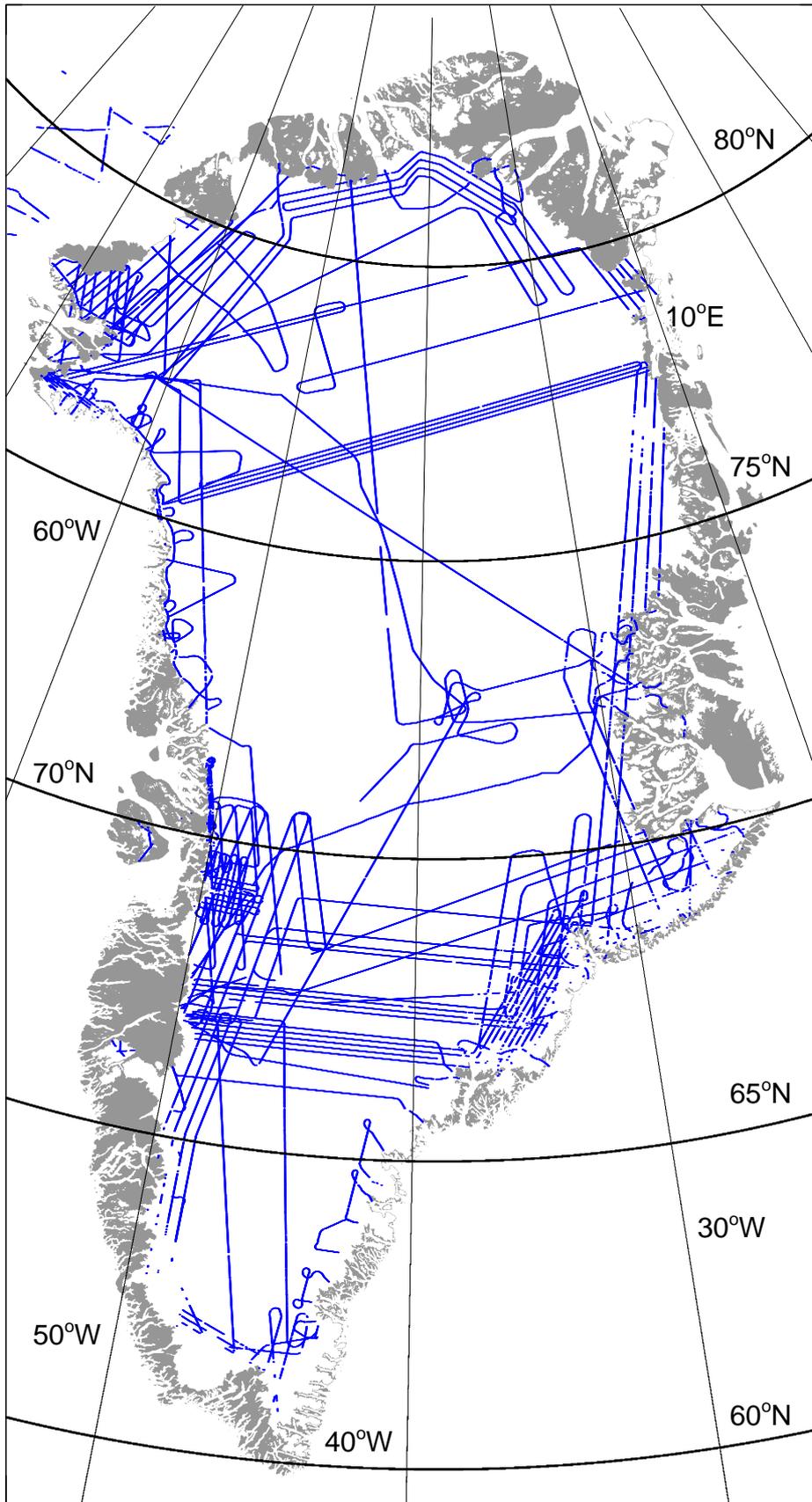


Figure S2. Flightlines for the 2012 OIB season, which became available during the paper review and have been added to the final version of the datasets linked to this publication.

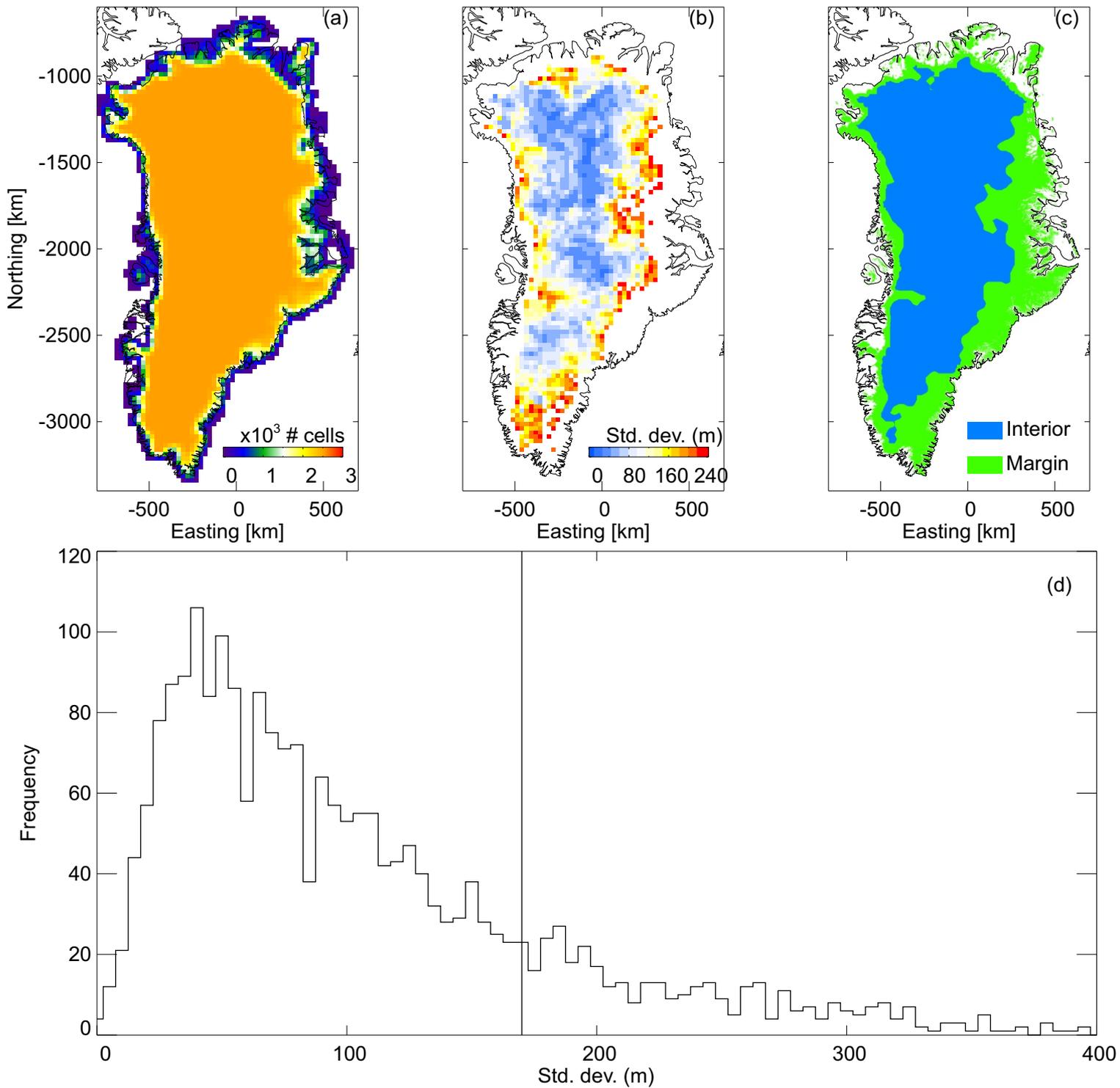


Figure S3. (a) The number of 1 km grid cells containing observations within a 50 km square area. (b) The standard deviation of the observations within each 50 km square area. (c) The “margin” and “interior” regions as determined by a threshold for the standard deviation of bed elevation of 170 m for each 50 km square area. (d) A histogram of the standard deviations within each 50 km square area.

Fig. S4. a) The number of 1 km grid cells containing an ice thickness measurement in a 50 km radius. b) The spatial distribution of "dense" and "sparse" data coverage that was used to define which areas were interpolated at 1 km and which at 2.5 km spacing. c) The histogram of data density for all grid cells at 1 km spacing. The solid vertical line indicates the boundary between the two categories shown in Fig. b.

