Fig. S1

(a) Coherence vs. Wavelength (km)

(b) Shipboard free-air gravity anomaly (mGal) vs. Satellite-derived FAA (mGal)

(c) Histogram of Free-air gravity anomaly errors (mGal) with a = 3.7 mGal

Counts (Percent)
Fig. S3

a) Coherence vs. Wavelength (km)
- Red line: With at least one echo sounding measurement
- Blue line: Without echo sounding

b) Scatter plot of Satellite-derived depth vs. Echo sounding depth

C) Histogram of Bathymetry errors (m) with σ=66 m
Fig. S4