Figure S1. Differences in reference SMB (mean annual SMB of 1960-1989) between various ESMs and ERA5-reanalysis used for initialization of the ice sheet.
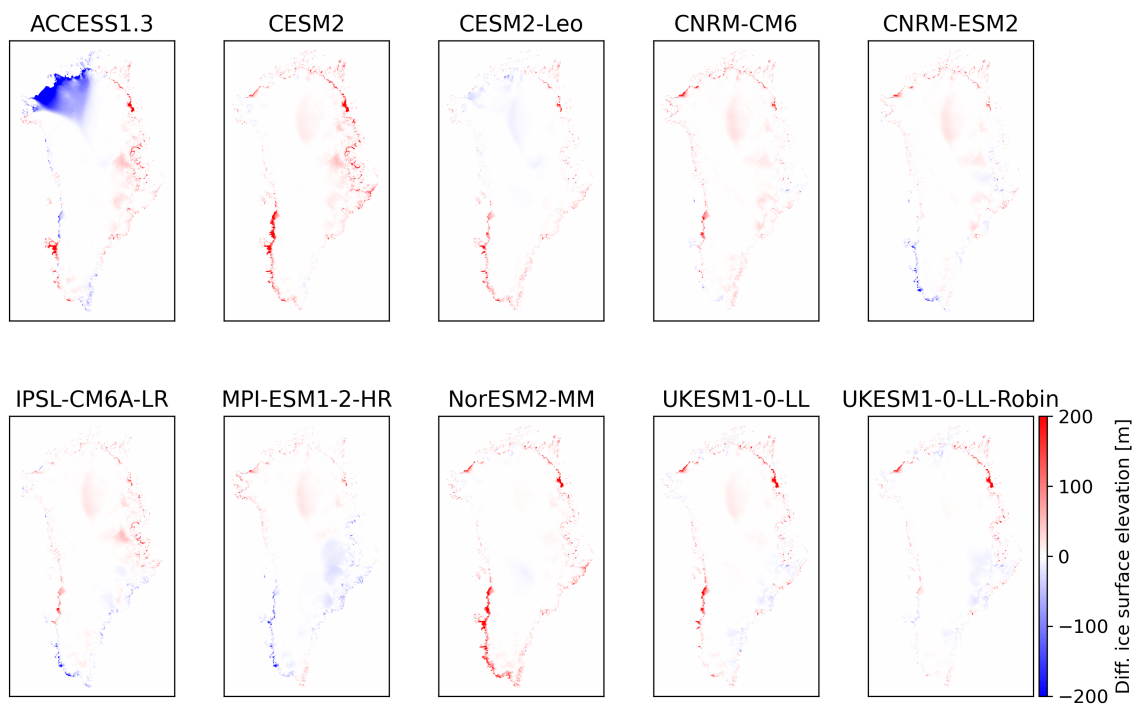
Figure S2. Differences in ice surface elevation with respect to the ERA5-initialization for various ESM-initializations.
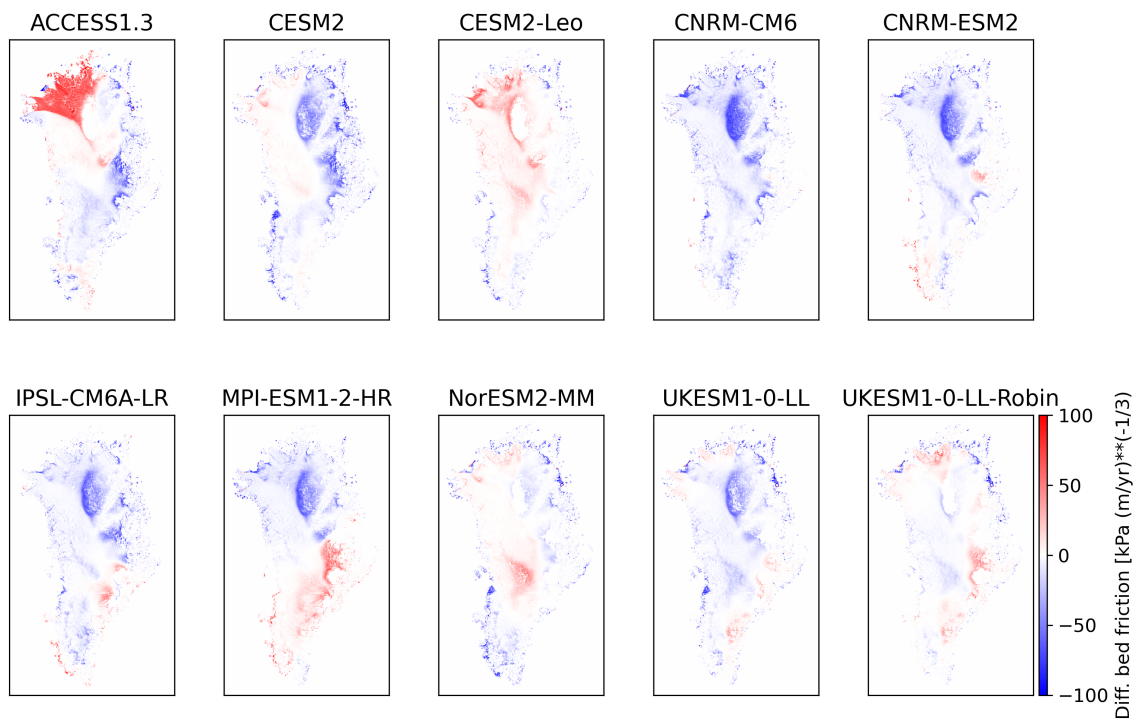
Figure S3. Differences in bed friction field with respect to the ERA5-initialization for various ESM-initializations.