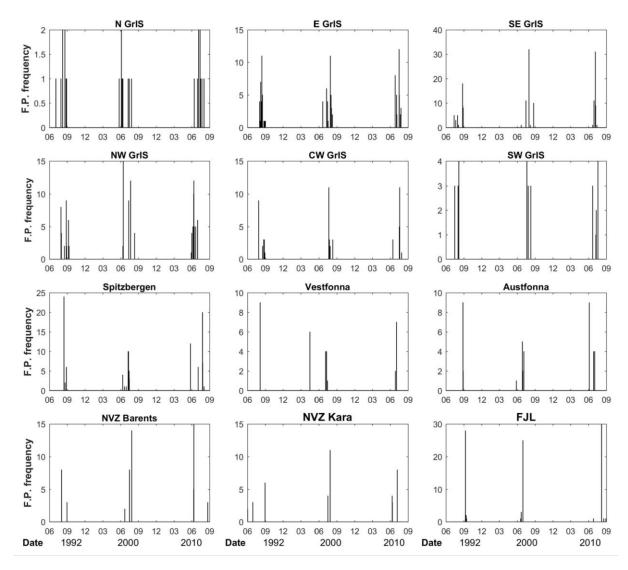
1 Supplementary Tables

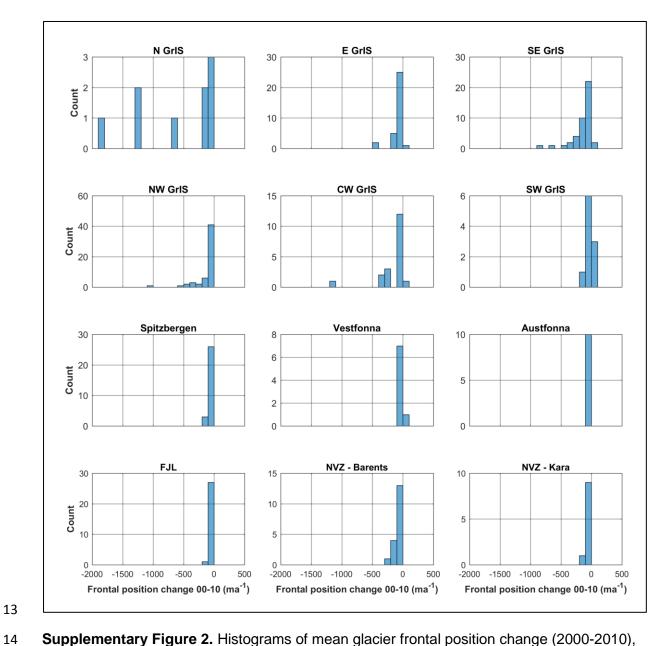
Dataset	Data source	URL / Reference
Weather and climate Data	Danish Meteorological	[Carstensen and
from Greenland 1958–2010	Institute	Jørgensen, 2011]
Eklima climate database	Norwegian	www.eklima.no
	Meteorological Institute	
Climate Explorer	Royal Netherlands	http://climexp.knmi.nl/start.c
	Meteorological Institute	gi?id=someone@somewhe
		re
National Climate Data and	Canadian Daily Climate	http://climate.weather.gc.ca
Information Archive	Data	
World Data Center –	Scientific Research	http://meteo.ru/english/clim
Baseline Climatological Data	Institute of	ate/cl_data.php
Sets	Hydrometeorological	
	Information	

- 2 **Supplementary Table 1.** Meteorological datasets used to calculate air temperature trends
- 3 during the study period.

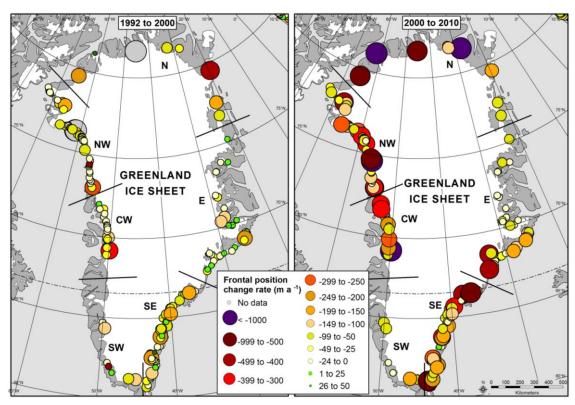
Supplementary Figures



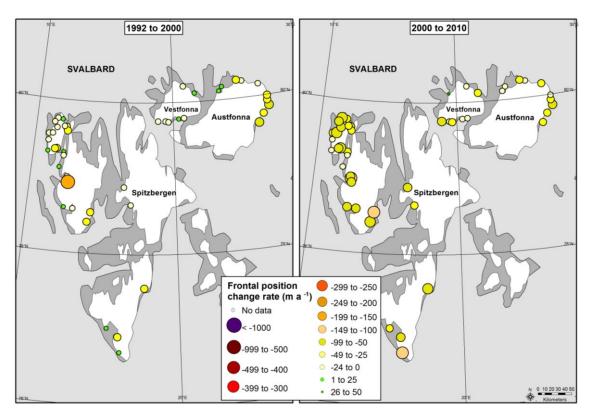
Supplementary Figure 1. Date of glacier frontal position data acquisition, grouped according to region, for 1992, 2000 and 2010. For each region, the number of frontal positions acquired on each day of the year is shown.



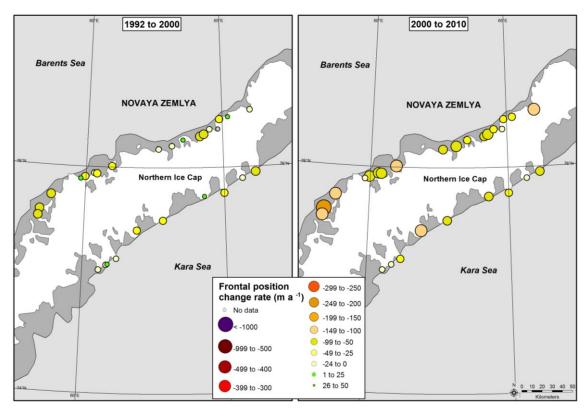
Supplementary Figure 2. Histograms of mean glacier frontal position change (2000-2010), divided by region.



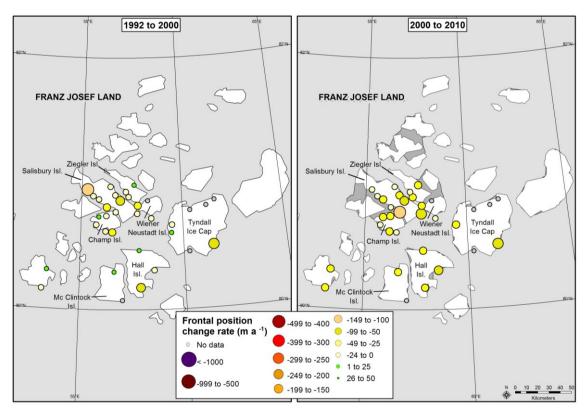
Supplementary Figure 3. Mean marine-terminating outlet glacier retreat rates for the Greenland Ice Sheet, for the periods 1992-2000 and 2000-2010. Retreat rate is symbolised by colour and size, with larger symbols indicating more rapid retreat.



Supplementary Figure 4. Mean marine-terminating outlet glacier retreat rates for the Svalbard, for the periods 1992-2000 and 2000-2010. Retreat rate is symbolised by colour and size, with larger symbols indicating more rapid retreat.



Supplementary Figure 5. Mean marine-terminating outlet glacier retreat rates for the NVZ, for the periods 1992-2000 and 2000-2010. Retreat rate is symbolised by colour and size, with larger symbols indicating more rapid retreat.



Supplementary Figure 6. Mean marine-terminating outlet glacier retreat rates for the FJL, for the periods 1992-2000 and 2000-2010. Retreat rate is symbolised by colour and size, with larger symbols indicating more rapid retreat.

Supplementary references

Carstensen, L. S., and B. V. Jørgensen (2011), Weather and climate data from Greenland 1958-2010.,
Techincal Report, 11-10.