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Supplement of

Using results from the PlioMIP ensemble to investigate the Greenland Ice Sheet during the mid-Pliocene Warm Period

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Supplementary Table 1: GrIS diagnostics for the PlioMIP simulations, including volume and ice area using the different parameter sets described as shown by the coloured circles in Figures 5 and 7. Values are given as a difference from the simulated pre-industrial GrIS, when the same GCM pre-industrial forcing climatology is used. For example, negative volume or area means that the GrIS reduces in size compared to the GCM pre-industrial control.

	Model Name	Standard parameter set used within BASISM (Red circles) Volume ($\times 10^6 \text{ km}^3$)	Parameter set that gives a volumetric reconstruction closest to observed (Blue circles) Volume ($\times 10^6 \text{ km}^3$)	Parameter set that gives the lowest RMSE in terms of thickness (Yellow circles) Volume ($\times 10^6 \text{ km}^3$)
AGCMs	CAM3.1	-2.70	-2.83	-2.84
	COSMOS	0.14	-0.65	-0.27
	HadAM3	-1.27	-1.53	-1.28
	LMDZ5A	-1.67	-2.42	-2.42
	MIROC4m	0.19	-1.36	-1.36
	MRI-CGCM2.3	0.22	0.41	0.41
	NorESM-L	-3.46	-3.43	-3.43
AOGCMs	CCSM4	-0.27	-0.53	-0.88
	COSMOS	-0.66	-2.14	-2.14
	GISS ModelE2-R	-1.89	-2.62	-2.62
	HadCM3	-1.73	-2.15	-2.15
	IPSLCM5A	-1.85	-2.36	-2.01
	MIROC4m	-0.83	-2.46	-2.46
	MRI-CGCM2.3	0.20	0.20	0.20
	NorESM-L	-3.12	-3.13	-3.18