Supplementary material of the future of Upernavik Isstrøm

1 Additional metrics for Bayesian calibration analysis

1.1 CRPS

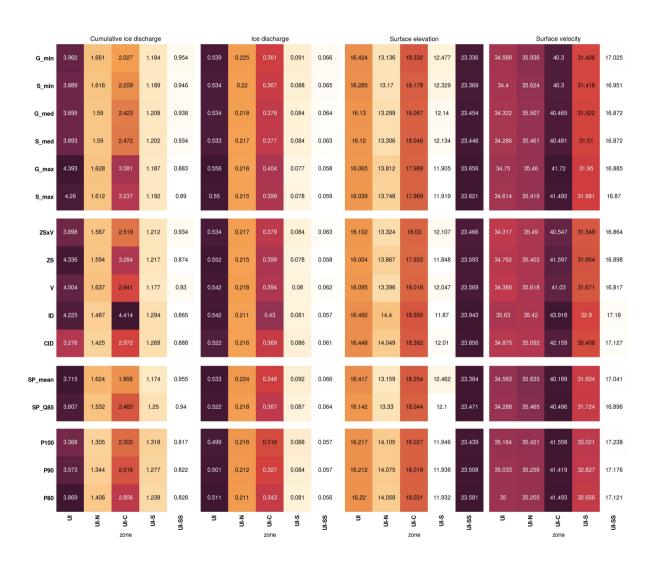


Figure S1. Non-standardised CRPS table. Same legend as figure A1.

1.2 MAE

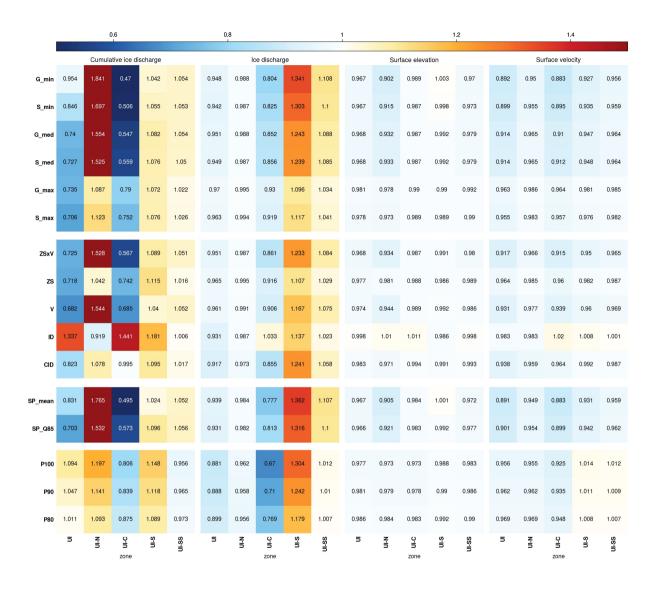


Figure S2. Standardised MAE table. Same legend as figure A1.

	Cumulative ice discharge						lo	e discharg	ge			Sur	face eleva	tion			Su	rface velo	city	
G_min	4.236	2.38	2.52	1.778	1.137	0.756	0.306	0.541	0.137	0.076	19.731	16.518	22.668	15.362	26.009	42.984	45.488	53.307	38.768	19.699
S_min	3.753	2.195	2.711	1.801	1.136	0.751	0.306		0.133	0.075	19.72	16.746	22.631	15.286	26.1	43.317	45.742	54.069	39.069	19.753
G_med	3.283	2.01	2.93	1.846	1.136	0.758	0.306		0.127	0.074	19.738	17.054	22.617	15.194	26.252	44.027	46.229	54.928	39.601	19.846
S_med		1.972		1.837	1.132	0.757	0.305	0.576	0.126	0.074	19.74	17.079	22.612	15.195	26.253	44.047	46.222	55.091	39.614	19.864
G_max	3.261	1.406	4.231	1.83	1.102	0.773	0.308	0.626	0.112	0.071	20.007	17.901	22.698	15.162	26.6	46.389	47.215	58.241	40.993	20.292
S_max	3.134	1.452	4.028	1.837	1.106	0.768	0.308	0.618	0.114	0.071	19.947	17.805	22.667	15.152	26.552	46.026	47.075	57.799	40.816	20.229
ZSxV	3.217	1.976	3.036	1.858	1.134	0.758	0.306	0.58	0.126	0.074	19.744	17.1	22.612	15.178	26.28	44.188	46.28	55.279	39.705	19.882
zs	3.185	1.348	3.974	1.904	1.095	0.769	0.308	0.616	0.113	0.07	19.931	17.951	22.646	15.101	26.536	46.432	47.167	57.967	41.058	20.333
v	3.025	1.996	3.672	1.775	1.134	0.766	0.307	0.609	0.119	0.074	19.873	17.283	22.67	15.199	26.431	44.88	46.768	56.689	40.127	19.953
ID	5.934	1.188	7.72	2.016	1.085	0.743	0.305	0.695	0.116	0.07	20.348	18.483	23.166	15.106	26.753	47.347		61.584	42.159	20.621
CID	3.654	1.394	5.333	1.87	1.097	0.731	0.301	0.575	0.127	0.072	20.048	17.772	22.786	15.171	26.62	45.183	45.905	58.23	41.466	20.33
op	3.689	2.282	2.652	1.748	1.134	0.749	0.304	0.523	0.139	0.076	19.725	16.563	22.558	15.338	26.072	42.943	45.429	53,33	38.929	19.761
SP_mean	3.009	2.202	2.002	1.740	1.134	0.749	0.304	0.525	0.139	0.076	19.725	10.505	22.000	13,336	20.072	42.943	40.429	33.33	30.929	19.701
SP_Q85	3.038	1.897	3.419	1.921	1.134	0.742	0.304	0.567	0.13	0.074	19.72	17.027	22.546	15.131	26.269	43.842	45.972	55.213	39.668	19.896
P100	4.854	1.547	4.319	1.959	1.031	0.702	0.298	0.451	0.133	0.069	19.929	17.819	22.292	15.129	26.358	46.072	45.753	55.875	42.393	20.834
P90	4.648	1.475	4.497	1.909	1.04	0.708	0.296	0.477	0.127	0.069	20.017	17.913	22.408	15.163	26.449	46.339	46.053	56.475	42.253	20.783
P80	4.485	1.413	4.69	1.858	1.05	0.717	0.296	0.517	0.12	0.069	20.108	18.008	22.529	15.199	26.54	46.686	46.42	57.232	42.124	20.733
	5	N-IO	Sone	S-ID	SS-IN	5	N-ID	Sone	S-In	SS-IN	5	N-in	ပ္ 5 zone	S-In	SS-IN	5	N-IO	zone	S-In	SS-IN

Figure S3. Non-Standardised MAE table. Same legend as figure A1.

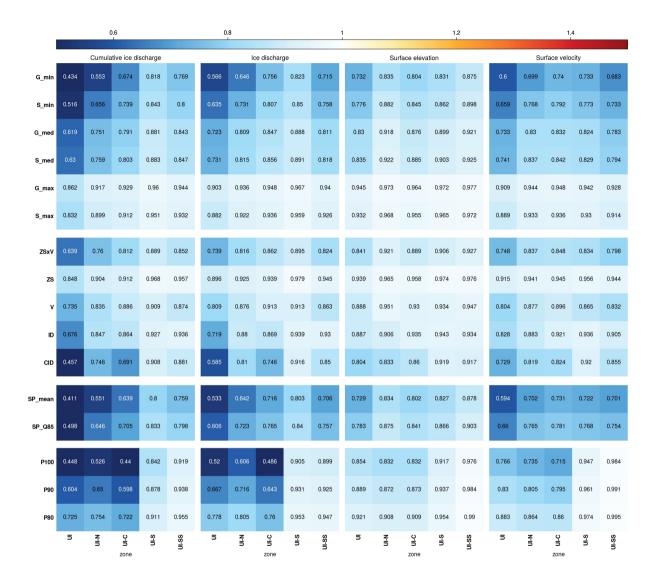


Figure S4. Standardised MAE table. Same legend as figure A1.

		Cumulative ice discharge					lo	e discharg	je			Sur	face eleva	tion			Surface velocity				
G_min	10.359	4.455	11.368	2.797	0.326	0.784	0.301	0.748	0.159	0.018	7.966	8.631	11.354	6.787	4.723	17.899	21.843	29.432	14.808	5.581	
S_min	12.32	5.284	12.468	2.88	0.339	0.88	0.341	0.798	0.165	0.019	8.443	9.107	11.932	7.044	4.846	19.679	24.013	31.484	15.612	5.982	
G_med	14.778	6.054	13.352	3.011	0.357	1.002	0.377	0.838	0.172	0.02	9.033	9.48	12.377	7.345	4.974	21.868	25.945	33.068	16.657	6.393	
S_med	15.057	6.119	13.55	3.018	0.359	1.013	0.38	0.847	0.172	0.02	9.093	9.527	12.496	7.38	4.997	22.116	26.144	33.479	16.756	6.481	
G_max	20.594	7.386	15.665	3.28	0.4	1.252	0.436	0.938	0.187	0.023	10.287		13.612	7.94	5.278	27.119	29.512	37.694	19.041	7.581	
S_max	19.872	7.239	15.394	3.25	0.395	1.222	0.43	0.926	0.186	0.023	10.15		13.49	7.882	5.25	26.521	29.148	37.212	18.791	7.459	
ZSxV	15.265	6.126	13.694	3.037	0.361	1.024	0.38	0.853	0.173	0.021	9.153	9.516	12.557	7.401	5.006	22.332	26.154	33.7	16.849	6.514	
zs	20.247	7.285	15.39	3.31	0.406	1.242	0.431	0.93	0.19	0.024	10.224	9.972	13.537	7.96	5.271	27.301	29.425	37.555	19.327	7.712	
v	17.56	6.727	14.942	3.106	0.371	1.121	0.408	0.904	0.177	0.022	9.671	9.82	13.134	7.632	5.113	24.001	27.421	35.618	17.47	6.796	
ID	16.138	6.822	14.576	3.168	0.397	0.997	0.41	0.86	0.182	0.023	9.655	9.361	13.207	7.707	5.043	24.709		36.632	18.911	7.39	
CID	10.914	6.008	11.657	3.103	0.374	0.811	0.378	0.739	0.177	0.021	8.748	8.606	12.145	7.51	4.953	21.764	25.583	32.755	18.582	6.978	
SP_mean	9.823	4.437	10.788	2.734	0.322	0.739	0.299	0.708	0.156	0.018	7.935	8.621	11.322	6.758	4.738	17.731	21.946	29.052	14.59	5.727	
SP_Q85	13.435	5.653	12.804	2.933	0.35	0.917	0.358	0.799	0.168	0.02	8.888		12.295	7.266	4.965	21.113	25.048	32.617	16.187	6.459	
P100	10.692	4.237	7.418	2.878	0.39	0.721	0.282	0.481	0.175	0.022	9.299	8.594	11.752	7.496	5.27	22.86	22.959	28.444	19.139	8.039	
P90	14.418	5.237	10.097	3.001	0.398	0.924	0.334	0.636	0.18	0.023	9.68	9.005	12.325	7.653	5.311	24.787	25.165	31.617	19.426	8.088	
P80	17.326	6.071	12.181	3.115	0.405	1.078	0.375	0.752	0.185	0.024	10.021	9.377	12.836	7.798	5.344	26.367	27.016	34.184	19.674	8.125	
	5	N-5	O-IO	S-ID	SS-IN	5	N-15	o-in	S-ID	SS-In	5	N 5	o-in	S-ID	SS-In	5	N- 5	o-in	S-ID	SS-IN	
		5	5 zone	D	Š		5	zone	D	Ś		5	zone	5	Ś		5	zone	5	Ś	

Figure S5. Non-Standardised MAE table. Same legend as figure A1.