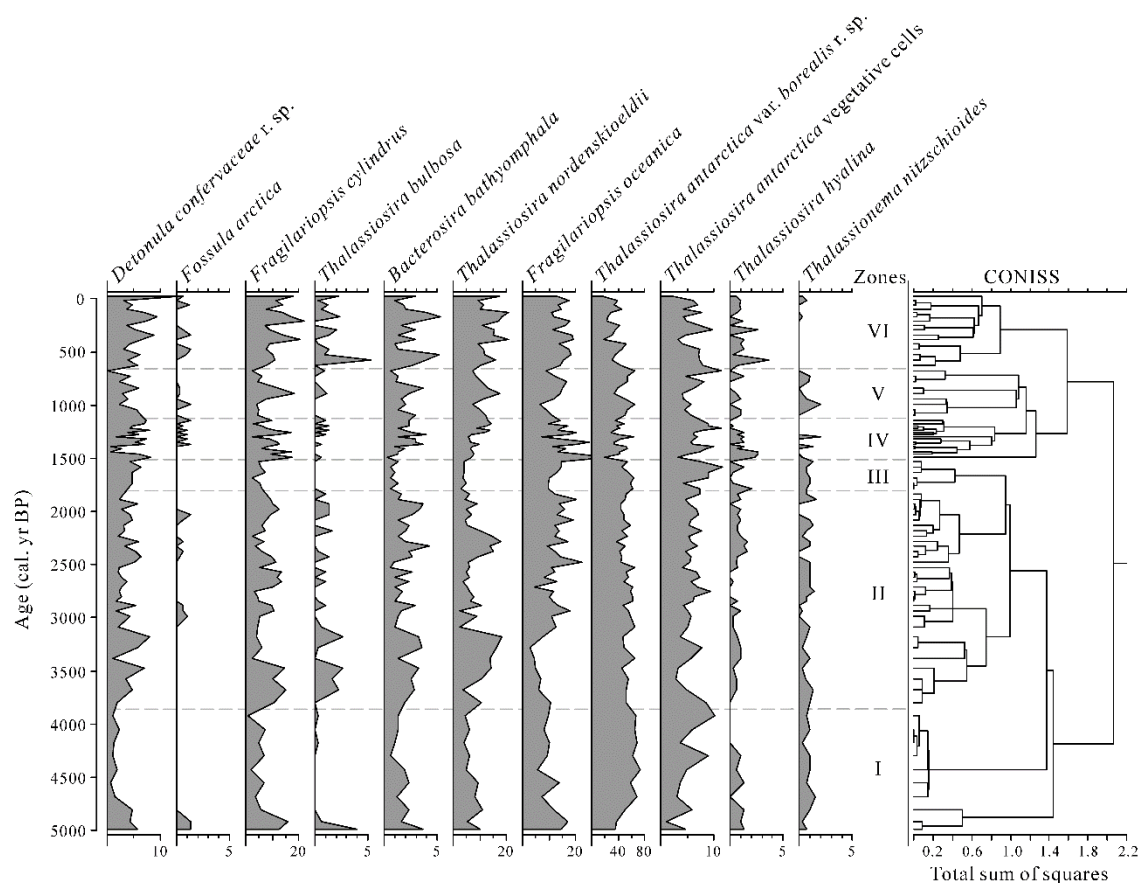


1 **Supplementary Information**

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4 **Summer sea-surface temperatures and climatic events in**
5 **Vaigat Strait, West Greenland, during the last 5000 years**

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10 **Supplementary Figure 1** Relative abundance (%) of the distribution (excluding
11 *Chaetoceros* resting spores) of the most common diatoms in the studied record of core
12 DA06-139G (Sha et al., 2014). The diatom zonation is based on cluster analysis. r. sp.
13 = resting spores.



19 **Supplementary Table 1** Location and water depth (m) of surface samples. Samples
20 marked with “+” were provided by Anne Jennings, INSTAAR, University of
21 Colorado in Boulder, USA; sample JM96-1219/1 was provided by Morten Hald,
22 University of Tromsø, Norway. “BIOICE” samples around Iceland were collected in
23 the scope of the BIOICE (Benthic Invertebrates of Icelandic Waters) project during
24 the period of 1995–1998. “MSM” samples west off Greenland were collected during
25 the German MSM092/ cruise with RV ‘Maria S. Merian’ in 2008, “POR” samples in
26 Disko Bugt were collected during a cruise on the Danish research vessel ‘Porsild’ in
27 1999. The type of sampling instrument is listed in the table.

Sample name	Sample no.	Sampling instrument	Water depth (m)	Latitude	Longitude
BS1191-K12 ⁺	12	Grab	224	68°7′N	25°54′W
BS1191-K14-1A ⁺	14	Grab	459	68°11′N	29°36′W
JM96-1216/2GC ⁺	1216	Gravity corer	478	65°58′N	30°38′W
JM96-1219/1	1219	Gravity corer	2144	64°29′N	30°27′W
JM96-1229/1GC ⁺	1229	Gravity corer	1047	67°1′N	25°9′W
JM96-1234/1GC ⁺	1234	Gravity corer	223	66°35′N	23°59′W
BIOICE2066	2066	Shipek grab	199	66°9′N	17°35′W
BIOICE2084	2084	Shipek grab	743	67°16′N	17°25′W
BIOICE2130	2130	Shipek grab	642	66°47′N	18°42′W
BIOICE2194	2194	Shipek grab	125	66°17′N	18°49′W
BIOICE2196	2196	Shipek grab	38	64°18′N	22°24′W
BIOICE2205	2205	Shipek grab	86	64°3′N	22°60′W
BIOICE2208	2208	Shipek grab	136	63°59′N	23°33′W
BIOICE2217	2217	Shipek grab	259	64°12′N	25°17′W
BIOICE2231	2231	Shipek grab	212	63°43′N	24°25′W
BIOICE2235	2235	Shipek grab	263	63°27′N	24°40′W
BIOICE2238	2238	Shipek grab	309	63°21′N	25°21′W
BIOICE2250	2250	Shipek grab	850	63°15′N	25°48′W
BIOICE2258	2258	Shipek grab	1197	63°16′N	26°30′W
BIOICE2746	2746	van Veen grab	800	67°46′N	20°51′W
BIOICE2748	2748	van Veen grab	973	68°2′N	20°42′W
BIOICE2752	2752	van Veen grab	1021	67°55′N	19°21′W
BIOICE2764	2764	van Veen grab	1198	68°5′N	17°30′W
BIOICE2770	2770	van Veen grab	492	68°36′N	16°57′W
BIOICE2775	2775	Box corer	1552	68°36′N	14°40′W
BIOICE2794	2794	Box corer	458	67°14′N	19°3′W
BIOICE2796	2796	Box corer	396	66°54′N	17°54′W

BIOICE2798	2798	Box corer	425	66°35'N	17°41'W
BIOICE2831	2831	Shipek grab	111	63°25'N	16°37'W
BIOICE2840	2840	Shipek grab	239	63°18'N	16°54'W
BIOICE2859	2859	RP sledge	2270	61°50'N	16°53'W
BIOICE2863	2863	RP sledge	2400	61°10'N	18°3'W
BIOICE2875	2875	Shipek grab	777	64°34'N	27°36'W
BIOICE2879	2879	Shipek grab	355	64°56'N	27°14'W
BIOICE2894	2894	Shipek grab	664	65°29'N	27°32'W
BIOICE2919	2919	Shipek grab	1268	65°26'N	29°11'W
BIOICE2938	2938	Shipek grab	151	65°31'N	26°13'W
BIOICE2949	2949	Shipek grab	160	65°42'N	25°17'W
BIOICE2960	2960	Shipek grab	53	65°21'N	24°5'W
BIOICE2964	2964	Shipek grab	122	65°8'N	23°36'W
BIOICE2971	2971	Shipek grab	91	65°3'N	24°13'W
BIOICE2975	2975	Shipek grab	163	65°2'N	25°52'W
MSM09/2-415	415	Box Corer	302	52°40'N	51°58'W
MSM09/2-419	419	Box Corer	2241	52°58'N	51°18'W
MSM09/2-424	424	Multi Corer	3369	53°23'N	50°15'W
MSM09/2-432	432	Box Corer	3842	54°17'N	48°0'W
MSM09/2-439	439	Box Corer	3474	56°53'N	52°41'W
MSM09/2-450	450	Box Corer	3004	60°0'N	49°0'W
MSM09/2-453	453	Box Corer	2632	62°33'N	52°38'W
MSM09/2-454	454	Box Corer	735	64°58'N	56°26'W
MSM09/2-455	455	Multi Corer	1339	68°58'N	59°34'W
MSM09/2-456	456	Multi Corer	1215	72°30'N	61°57'W
MSM09/2-463	463	Box Corer	798	71°26'N	70°26'W
MSM09/2-465	465	Box Corer	865	68°50'N	66°16'W
MSM09/2-467	467	Multi Corer	1550	68°32'N	63°20'W
MSM09/2-468	468	Box Corer	393	65°60'N	60°30'W
MSM09/2-469	469	Multi Corer	466	64°60'N	59°0'W
MSM09/2-470	470	Box Corer	1009	64°0'N	57°60'W
MSM09/2-472	472	Multi Corer	2330	62°33'N	56°28'W
POR01	1001	van Veen grab	376	69°17'N	53°5'W
POR02	1002	van Veen grab	391	69°19'N	52°51'W
POR03	1003	van Veen grab	350	68°46'N	51°33'W
POR09	1009	van Veen grab	350	68°46'N	51°23'W
POR12	1012	van Veen grab	132	69°43'N	51°48'W
POR14	1014	van Veen grab	368	69°48'N	51°51'W
POR15	1015	van Veen grab	279	69°47'N	51°50'W
POR17	1017	van Veen grab	36	69°46'N	50°54'W
POR18	1018	van Veen grab	379	69°11'N	51°49'W
POR19	1019	van Veen grab	382	69°10'N	51°27'W

POR20	1020	van Veen grab	279	69°10'N	51°18'W
POR22	1022	van Veen grab	330	68°59'N	51°38'W
POR23	1023	van Veen grab	279	69°13'N	51°10'W
