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Supplement of

Arctic sea ice melt onset from passive microwave satellite data: 1979–2012

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Supplement Table S1. Annual Mean MO Dates

Year	Arctic Region	Barents Sea	Kara Sea	Laptev Sea	East Siberian Sea	Chukchi Sea	Beaufort Sea	Canadian Archipelago
1979	144.462	121.773	138.11	159.308	171.946	145.264	159.063	168.179
1980	142.199	106.085	141.047	158.773	169.379	148.812	162.075	161.12
1981	139.313	107.364	151.854	147.864	156.7	146.617	151.289	158.958
1982	146.527	120.458	152.372	167.066	171.866	142.973	155.363	156.727
1983	142.612	81.0937	146.023	154.737	174.769	148.066	158.646	157.558
1984	144.376	103.043	143.432	163.936	174.28	155.088	162.294	162.401
1985	139.757	91.4883	140.077	150.096	169.908	155.12	159.983	145.981
1986	139.192	93.6883	131.147	152.993	161.176	153.191	165.271	148.495
1987	142.891	101.885	145.811	157.006	173.166	160.619	161.042	159.895
1988	138.585	109.418	141.776	152.395	166.457	149.845	152.587	142.298
1989	133.764	95.3694	134.023	153.044	147.046	127.325	147.075	151.577
1990	125.27	84.7171	120.752	130.802	127.377	120.856	160.173	152.879
1991	133.671	90.636	126.422	137.169	144.641	146.194	149.8	142.658
1992	136.455	93.6829	127.769	146.904	145.726	136.711	145.175	153.603
1993	131.929	88.3622	129.778	138.572	143.491	141.545	149.692	142.489
1994	133.152	95.4414	138.068	146.543	152.868	145.594	142.51	138.303
1995	126.57	85.4072	108.229	143.396	155.292	125.716	132.853	144.497
1996	128.877	96.4108	136.399	153.521	144.308	117.103	138.763	142.034
1997	130.767	98.2811	120.748	133.785	148.421	130.077	151.773	148.298
1998	127.507	107.759	137.833	150.679	147.765	132.7	130.28	138.382
1999	132.627	93.6342	138.279	144.513	153.416	141.419	150.603	150.063
2000	132.661	86.1423	125.084	142.504	155.593	140.455	157.516	150.715
2001	133.851	101.128	133.389	149.386	148.183	141.71	151.793	143.17
2002	128.864	98.4847	127.265	141.842	137.413	117.373	140.738	149.971
2003	126.73	87.8577	123.168	126.966	141.942	126.045	136.503	148.165
2004	129.574	97.3387	138.869	155.017	138.578	124.216	146.157	152.511
2005	121.998	95.6396	125.487	139.763	132.226	112.599	143.484	142.208
2006	123.007	78.7423	123.889	142.064	138.793	133.513	139.677	135.93
2007	124.771	70.0901	122.887	123.387	135.807	131.562	141.67	148.844
2008	125.221	88.5243	122.326	142.963	131.257	120.09	134.652	138.657
2009	126.368	96.3063	125.867	141.377	128.603	117.728	130.085	150.183
2010	126.498	85.3027	120.541	138.064	145.003	139.523	142.858	144.089
2011	122.915	72.7045	98.4122	115.887	136.335	127.327	141.189	149.408
2012	120.979	69.5459	99.5728	124.971	133.128	131.828	140.391	144.302

Supplement Table S1. Annual Mean MO Dates (Cont.)

Year	Central Arctic	Sea of Okhotsk	Bering Sea	Hudson Bay	Baffin Bay	Greenland Sea	Baltic Sea	St. Lawrence Gulf
1979	179.555	88.2445	72.8103	106.693	124.482	132.025	92.6897	68.8696
1980	171.568	91.0339	79.8431	108.83	123.238	107.127	89.4138	89.8696
1981	175.297	81.5808	73.8009	103.141	121.483	124.626	97.8276	68.913
1982	181.504	86.501	76.0703	111.934	136.98	127.502	85.0345	74.7826
1983	170.93	78.9122	78.171	115.402	137.111	111.355	70.3793	69.4348
1984	175.165	77.5339	71.8314	109.028	136.752	105.462	89.3448	72.1304
1985	168.5	87.1637	71.7002	112.357	116.471	118.204	97.0345	76.5217
1986	174.735	82.1038	78.2412	110.979	108.114	125.881	89.8276	74.913
1987	172.346	76.5669	81.4286	106.367	124.21	116.495	87.1724	86.087
1988	164.547	81.1527	88.4614	109.38	115.686	135.028	87.2414	72.8696
1989	158.191	71.2715	69.7869	119.337	126.105	134.858	67.4483	73.3478
1990	150.911	79.5878	75.2155	90.1347	132.278	127.971	71.5172	69.7391
1991	160.139	78.7226	84.3466	116.146	134.664	127.442	74.5862	70.087
1992	163.133	78.2455	90.2412	124.983	137.697	132.94	64.5172	66.087
1993	159.896	80.8403	82.0351	112.312	120.838	125.692	70.1034	75.4783
1994	160.396	89.3663	80.8197	109.278	108.638	125.739	72.8276	71
1995	156.017	83.6387	79.3747	96.6262	113.893	126.532	68.7586	70.3478
1996	159.686	74.8782	73.0937	110.349	114.118	98.2906	99.4138	76.4348
1997	161.624	70.9182	76.1101	108.392	122.57	127.13	85.5517	72.7391
1998	152.004	84.9132	75.534	101.596	102.482	107.218	86.7241	73.8261
1999	156.84	82.7435	89.8829	96.5245	127.314	108.27	72.8276	62.1304
2000	158.797	77.4132	79.9016	99.3606	124.697	127.567	71.069	66.9565
2001	161.405	83.6178	76.74	102.558	124.487	132.838	81.6552	79.3478
2002	156.191	81.9371	72.8478	114.947	119.911	120.02	75.3793	78.1304
2003	160.15	82.9661	72.7307	108.489	108.518	117.178	67	73.5217
2004	156.189	75.5459	73.1335	106.643	115.059	102.286	71.2759	67.3913
2005	153.558	78.2275	72.185	89.1879	105.502	109.255	79.8276	67.2609
2006	149.68	75.3463	95.6979	94.4868	104.948	96.2952	87.069	67.2174
2007	151.475	77.0828	81.4684	98.1248	125.892	122.81	63.0345	75
2008	152.615	76.3234	81.0843	105.077	124.688	127.547	64.931	75.1304
2009	150.208	77.8693	92.4333	118.85	121.015	113.034	72.3103	73.3478
2010	154.546	93.2894	88.911	94.3625	103.851	104.547	80.2069	91.5652
2011	150.132	78.3543	84.1241	113.175	115.569	116.42	76.931	65.0435
2012	143.804	84.7774	95.1522	97.9459	120.53	108.014	69.1379	72.2174