

Supplemental appendices for NOAA technical memorandum NMFS-OPR-57

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National Oceanic and Atmospheric Administration
National Marine Fisheries Service

July 2017

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S1. Unique vessel counts for the Arctic Ocean by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	7	11	8	6	0	0	0	32
General Cargo Ship	1	1	4	0	0	0	0	6
Landing Craft	2	0	0	0	0	0	0	2
Passenger Ship	0	2	0	0	0	0	0	2
Passenger/Cruise	4	7	4	5	0	0	0	20
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	1	0	0	0	1
Refrigerated Cargo Ship	0	1	0	0	0	0	0	1
Fishing	12	24	0	0	0	0	0	36
Factory Stern Trawler	1	7	0	0	0	0	0	8
Fish Carrier	1	0	0	0	0	0	0	1
Fishery Research Vessel	1	0	0	0	0	0	0	1
Fishing Vessel	3	0	0	0	0	0	0	3
Seal Catcher	1	0	0	0	0	0	0	1
Stern Trawler	5	17	0	0	0	0	0	22
Miscellaneous	15	16	11	6	0	0	0	48
Buoy & Lighthouse Tender	1	0	0	0	0	0	0	1
Buoy Tender	0	2	0	0	0	0	0	2
Icebreaker	0	1	4	4	0	0	0	9
Icebreaker/Research	0	0	2	2	0	0	0	4
Patrol Vessel	0	0	1	0	0	0	0	1
Pusher Tug	1	0	0	0	0	0	0	1
Research Survey Vessel	2	11	4	0	0	0	0	17
Tug	11	2	0	0	0	0	0	13
Offshore	0	8	0	1	0	0	0	9
Anchor Handling Tug Supply	0	5	0	1	0	0	0	6
Drilling Ship	0	1	0	0	0	0	0	1
Platform Supply Ship	0	2	0	0	0	0	0	2
Tankers	0	1	0	2	1	0	0	4
Chemical/Products Tanker	0	1	0	0	1	0	0	2
Crude/Oil Products Tanker	0	0	0	2	0	0	0	2
Total	34	60	19	15	1	0	0	129

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Appendix S2. Transit counts for the Arctic Ocean by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	132	151	48	37	0	0	0	368
General Cargo Ship	38	1	6	0	0	0	0	45
Landing Craft	6	0	0	0	0	0	0	6
Passenger Ship	0	45	0	0	0	0	0	45
Passenger/Cruise	88	103	42	27	0	0	0	260
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	10	0	0	0	10
Refrigerated Cargo Ship	0	2	0	0	0	0	0	2
Fishing	68	80	0	0	0	0	0	148
Factory Stern Trawler	1	14	0	0	0	0	0	15
Fish Carrier	1	0	0	0	0	0	0	1
Fishery Research Vessel	2	0	0	0	0	0	0	2
Fishing Vessel	19	0	0	0	0	0	0	19
Seal Catcher	25	0	0	0	0	0	0	25
Stern Trawler	20	66	0	0	0	0	0	86
Miscellaneous	48	143	111	140	0	0	0	442
Buoy & Lighthouse Tender	4	0	0	0	0	0	0	4
Buoy Tender	0	5	0	0	0	0	0	5
Icebreaker	0	10	21	75	0	0	0	106
Icebreaker/Research	0	0	27	65	0	0	0	92
Patrol Vessel	0	0	31	0	0	0	0	31
Pusher Tug	2	0	0	0	0	0	0	2
Research Survey Vessel	4	124	32	0	0	0	0	160
Tug	38	4	0	0	0	0	0	42
Offshore	0	45	0	6	0	0	0	51
Anchor Handling Tug Supply	0	22	0	6	0	0	0	28
Drilling Ship	0	2	0	0	0	0	0	2
Platform Supply Ship	0	21	0	0	0	0	0	21
Tankers	0	2	0	4	3	0	0	9
Chemical/Products Tanker	0	2	0	0	3	0	0	5
Crude/Oil Products Tanker	0	0	0	4	0	0	0	4
Total	248	421	159	187	3	0	0	1018

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Appendix S3. Operational hours in the Arctic Ocean by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	1120	1767	471	471	0	0	0	3830
General Cargo Ship	333	1	60	0	0	0	0	393
Landing Craft	4	0	0	0	0	0	0	4
Passenger Ship	0	584	0	0	0	0	0	584
Passenger/Cruise	783	1146	411	426	0	0	0	2767
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	45	0	0	0	45
Refrigerated Cargo Ship	0	36	0	0	0	0	0	36
Fishing	1942	13267	0	0	0	0	0	15209
Factory Stern Trawler	64	2383	0	0	0	0	0	2447
Fish Carrier	1	0	0	0	0	0	0	1
Fishery Research Vessel	33	0	0	0	0	0	0	33
Fishing Vessel	344	0	0	0	0	0	0	344
Seal Catcher	180	0	0	0	0	0	0	180
Stern Trawler	1319	10884	0	0	0	0	0	12203
Miscellaneous	250	5942	2268	3809	0	0	0	12269
Buoy & Lighthouse Tender	8	0	0	0	0	0	0	8
Buoy Tender	0	133	0	0	0	0	0	133
Icebreaker	0	628	507	2427	0	0	0	3563
Icebreaker/Research	0	0	619	1382	0	0	0	2001
Patrol Vessel	0	0	507	0	0	0	0	507
Pusher Tug	3	0	0	0	0	0	0	3
Research Survey Vessel	57	5161	635	0	0	0	0	5852
Tug	182	20	0	0	0	0	0	202
Offshore	0	1188	0	26	0	0	0	1214
Anchor Handling Tug Supply	0	1054	0	26	0	0	0	1080
Drilling Ship	0	4	0	0	0	0	0	4
Platform Supply Ship	0	130	0	0	0	0	0	130
Tankers	0	11	0	57	13	0	0	81
Chemical/Products Tanker	0	11	0	0	13	0	0	24
Crude/Oil Products Tanker	0	0	0	57	0	0	0	57
Total	3312	22175	2740	4363	13	0	0	32603

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Appendix S4. Distance travelled (nm) in the Arctic Ocean by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	6571	10671	3518	4315	0	0	0	25075
General Cargo Ship	2044	8	692	0	0	0	0	2744
Landing Craft	36	0	0	0	0	0	0	36
Passenger Ship	0	3043	0	0	0	0	0	3043
Passenger/Cruise	4491	7359	2827	3881	0	0	0	18558
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	434	0	0	0	434
Refrigerated Cargo Ship	0	261	0	0	0	0	0	261
Fishing	8373	45861	0	0	0	0	0	54235
Factory Stern Trawler	274	8799	0	0	0	0	0	9074
Fish Carrier	5	0	0	0	0	0	0	5
Fishery Research Vessel	65	0	0	0	0	0	0	65
Fishing Vessel	1568	0	0	0	0	0	0	1568
Seal Catcher	877	0	0	0	0	0	0	877
Stern Trawler	5583	37062	0	0	0	0	0	42646
Miscellaneous	1223	28138	13473	22471	0	0	0	65304
Buoy & Lighthouse Tender	67	0	0	0	0	0	0	67
Buoy Tender	0	1214	0	0	0	0	0	1214
Icebreaker	0	2719	2094	16438	0	0	0	21252
Icebreaker/Research	0	0	4987	6033	0	0	0	11020
Patrol Vessel	0	0	2969	0	0	0	0	2969
Pusher Tug	21	0	0	0	0	0	0	21
Research Survey Vessel	284	24095	3422	0	0	0	0	27800
Tug	851	110	0	0	0	0	0	961
Offshore	0	5821	0	74	0	0	0	5894
Anchor Handling Tug Supply	0	5151	0	74	0	0	0	5225
Drilling Ship	0	44	0	0	0	0	0	44
Platform Supply Ship	0	625	0	0	0	0	0	625
Tankers	0	126	0	612	149	0	0	886
Chemical/Products Tanker	0	126	0	0	149	0	0	274
Crude/Oil Products Tanker	0	0	0	612	0	0	0	612
Total	16167	90617	16991	27471	149	0	0	151395

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Appendix S5. Unique vessel counts for the Arctic Ocean by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	5	13	16	21	16	0	0	0
General Cargo Ship	0	0	0	0	0	1	1	2	5	0	0	0
Landing Craft	0	0	0	0	0	0	0	1	2	0	0	0
Passenger Ship	0	0	0	0	0	2	2	2	1	0	0	0
Passenger/Cruise	0	0	0	0	5	10	12	14	8	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	1	1	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	1	0	0	0	0
Fishing	8	5	1	0	0	2	3	12	24	12	10	6
Factory Stern Trawler	1	0	0	0	0	0	0	3	6	1	1	2
Fish Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	1	0	0	0	0
Fishing Vessel	0	0	0	0	0	0	2	2	2	1	0	0
Seal Catcher	0	0	0	0	0	1	1	1	0	0	0	0
Stern Trawler	7	5	1	0	0	1	0	5	15	10	9	4
Miscellaneous	3	2	1	3	2	5	13	31	35	11	1	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	1	1	0	0	0
Buoy Tender	0	0	0	0	0	0	1	0	1	1	0	0
Icebreaker	0	0	0	0	0	1	3	5	5	4	0	0
Icebreaker/Research	0	0	0	0	1	1	1	3	4	0	0	0
Patrol Vessel	1	1	0	1	0	1	0	1	1	0	0	0
Pusher Tug	0	0	0	0	0	0	0	1	1	0	0	0
Research Survey Vessel	2	1	1	2	1	2	6	8	11	6	1	0
Tug	0	0	0	0	0	0	2	12	11	0	0	0
Offshore	0	0	0	0	0	0	4	5	6	2	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	2	3	4	1	0	0
Drilling Ship	0	0	0	0	0	0	0	0	1	0	0	0
Platform Supply Ship	0	0	0	0	0	0	2	2	1	1	0	0
Tankers	0	0	0	0	0	0	2	1	2	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	1	2	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	2	0	0	0	0	0
Total	11	7	2	3	7	20	38	70	83	25	11	6

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Appendix S6. Transit counts for the Arctic Ocean by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	15	69	116	130	46	0	0	0
General Cargo Ship	0	0	0	0	0	11	10	15	9	0	0	0
Landing Craft	0	0	0	0	0	0	0	3	3	0	0	0
Passenger Ship	0	0	0	0	0	15	17	13	1	0	0	0
Passenger/Cruise	0	0	0	0	15	43	88	88	33	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	1	9	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	2	0	0	0	0
Fishing	17	7	2	0	0	10	17	21	36	20	17	17
Factory Stern Trawler	1	0	0	0	0	0	0	3	6	2	2	6
Fish Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	2	0	0	0	0
Fishing Vessel	0	0	0	0	0	0	7	5	6	2	0	0
Seal Catcher	0	0	0	0	0	9	10	6	0	0	0	0
Stern Trawler	16	7	2	0	0	1	0	5	23	16	15	11
Miscellaneous	9	7	3	18	5	27	40	157	151	38	1	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	2	2	0	0	0
Buoy Tender	0	0	0	0	0	0	2	0	1	2	0	0
Icebreaker	0	0	0	0	0	6	11	34	42	19	0	0
Icebreaker/Research	0	0	0	0	2	13	2	35	43	0	0	0
Patrol Vessel	5	5	0	9	0	1	0	6	5	0	0	0
Pusher Tug	0	0	0	0	0	0	0	1	1	0	0	0
Research Survey Vessel	4	2	3	9	3	7	22	54	43	17	1	0
Tug	0	0	0	0	0	0	3	25	14	0	0	0
Offshore	0	0	0	0	0	0	16	16	13	8	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	9	9	9	3	0	0
Drilling Ship	0	0	0	0	0	0	0	0	2	0	0	0
Platform Supply Ship	0	0	0	0	0	0	7	7	2	5	0	0
Tankers	0	0	0	0	0	0	4	2	3	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	2	3	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	4	0	0	0	0	0
Total	26	14	5	18	20	106	193	326	249	66	18	17

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Appendix S7. Operational hours in the Arctic Ocean by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	153	691	989	1557	438	0	0	0
General Cargo Ship	0	0	0	0	0	77	63	159	95	0	0	0
Landing Craft	0	0	0	0	0	0	0	2	2	0	0	0
Passenger Ship	0	0	0	0	0	190	235	132	27	0	0	0
Passenger/Cruise	0	0	0	0	153	424	690	1185	314	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	1	43	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	36	0	0	0	0
Fishing	2415	1003	178	0	0	86	176	902	3038	3904	2154	1353
Factory Stern Trawler	517	0	0	0	0	0	0	252	594	357	53	674
Fish Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	33	0	0	0	0
Fishing Vessel	0	0	0	0	0	0	121	112	105	6	0	0
Seal Catcher	0	0	0	0	0	72	55	53	0	0	0	0
Stern Trawler	1898	1003	178	0	0	14	0	451	2338	3541	2101	679
Miscellaneous	210	158	63	210	74	604	726	3523	4865	1746	90	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	4	4	0	0	0
Buoy Tender	0	0	0	0	0	0	24	0	55	54	0	0
Icebreaker	0	0	0	0	0	234	366	1272	1285	406	0	0
Icebreaker/Research	0	0	0	0	56	309	9	595	1032	0	0	0
Patrol Vessel	137	111	0	102	0	1	0	122	34	0	0	0
Pusher Tug	0	0	0	0	0	0	0	2	1	0	0	0
Research Survey Vessel	73	47	63	108	18	60	324	1392	2391	1286	90	0
Tug	0	0	0	0	0	0	3	135	64	0	0	0
Offshore	0	0	0	0	0	0	107	438	388	282	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	70	396	368	246	0	0
Drilling Ship	0	0	0	0	0	0	0	0	4	0	0	0
Platform Supply Ship	0	0	0	0	0	0	37	42	15	36	0	0
Tankers	0	0	0	0	0	0	57	8	16	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	8	16	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	57	0	0	0	0	0
Total	2625	1161	241	210	227	1382	2055	6428	8745	5932	2244	1353

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Appendix S8. Distance travelled (nm) in the Arctic Ocean by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	1167	3692	5475	11358	3383	0	0	0
General Cargo Ship	0	0	0	0	0	484	349	1112	799	0	0	0
Landing Craft	0	0	0	0	0	0	0	14	21	0	0	0
Passenger Ship	0	0	0	0	0	826	1111	956	150	0	0	0
Passenger/Cruise	0	0	0	0	1167	2382	4003	8593	2413	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	11	423	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	261	0	0	0	0
Fishing	9297	3641	736	0	0	345	654	4121	11632	12570	6808	4431
Factory Stern Trawler	2018	0	0	0	0	0	0	1216	2247	1026	258	2308
Fish Carrier	0	0	0	0	0	0	0	0	5	0	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	65	0	0	0	0
Fishing Vessel	0	0	0	0	0	0	353	636	539	41	0	0
Seal Catcher	0	0	0	0	0	282	301	294	0	0	0	0
Stern Trawler	7280	3641	736	0	0	63	0	1911	8841	11503	6550	2123
Miscellaneous	1030	1064	161	1030	303	3437	5259	18800	24984	8924	311	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	34	33	0	0	0
Buoy Tender	0	0	0	0	0	0	97	0	510	607	0	0
Icebreaker	0	0	0	0	0	2450	3753	6329	6122	2597	0	0
Icebreaker/Research	0	0	0	0	203	665	17	4221	5914	0	0	0
Patrol Vessel	698	815	0	549	0	1	0	726	179	0	0	0
Pusher Tug	0	0	0	0	0	0	0	16	5	0	0	0
Research Survey Vessel	332	248	161	481	100	321	1374	6898	11853	5720	311	0
Tug	0	0	0	0	0	0	17	576	368	0	0	0
Offshore	0	0	0	0	0	0	408	2480	1703	1302	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	236	2222	1619	1148	0	0
Drilling Ship	0	0	0	0	0	0	0	0	44	0	0	0
Platform Supply Ship	0	0	0	0	0	0	173	258	40	154	0	0
Tankers	0	0	0	0	0	0	612	88	186	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	88	186	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	612	0	0	0	0	0
Total	10327	4704	897	1030	1470	7475	12409	36847	41890	22796	7119	4431

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Appendix S9. Unique vessel counts for Baffin Bay by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	11	0	0	11
Bulk Carrier	0	0	0	0	11	0	0	11
Dry Cargo/Passenger	3	4	12	10	2	0	0	31
Container Ship (Fully Cellular)	0	0	2	2	0	0	0	4
General Cargo Ship	1	1	5	1	0	0	0	8
General Cargo Ship (with Ro-Ro facility)	0	0	0	1	0	0	0	1
Passenger Ship	1	0	0	0	0	0	0	1
Passenger/Cruise	1	2	5	4	2	0	0	14
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	1	0	0	0	1
Refrigerated Cargo Ship	0	1	0	0	0	0	0	1
Ro-Ro Cargo Ship	0	0	0	1	0	0	0	1
Fishing	7	20	0	0	0	0	0	27
Factory Stern Trawler	0	8	0	0	0	0	0	8
Fishery Research Vessel	1	0	0	0	0	0	0	1
Fishing Vessel	1	0	0	0	0	0	0	1
Stern Trawler	5	12	0	0	0	0	0	17
Miscellaneous	7	1	7	1	0	0	0	16
Buoy Tender	0	1	0	0	0	0	0	1
Icebreaker	0	0	4	1	0	0	0	5
Icebreaker/Research	0	0	1	0	0	0	0	1
Patrol Vessel	2	0	0	0	0	0	0	2
Research Survey Vessel	0	0	2	0	0	0	0	2
Suction Dredger	1	0	0	0	0	0	0	1
Tug	4	0	0	0	0	0	0	4
Offshore	1	0	0	0	0	0	1	2
FPSO, Oil	0	0	0	0	0	0	1	1
Platform Supply Ship	1	0	0	0	0	0	0	1
Tankers	0	2	1	4	0	0	0	7
Chemical/Products Tanker	0	2	1	4	0	0	0	7
Total	18	27	20	15	13	0	1	94

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Appendix S10. Transit counts for Baffin Bay by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	27	0	0	27
Bulk Carrier	0	0	0	0	27	0	0	27
Dry Cargo/Passenger	119	346	86	63	4	0	0	618
Container Ship (Fully Cellular)	0	0	15	6	0	0	0	21
General Cargo Ship	22	143	15	3	0	0	0	183
General Cargo Ship (with Ro-Ro facility)	0	0	0	3	0	0	0	3
Passenger Ship	27	0	0	0	0	0	0	27
Passenger/Cruise	70	40	56	37	4	0	0	207
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	11	0	0	0	11
Refrigerated Cargo Ship	0	163	0	0	0	0	0	163
Ro-Ro Cargo Ship	0	0	0	3	0	0	0	3
Fishing	247	130	0	0	0	0	0	377
Factory Stern Trawler	0	79	0	0	0	0	0	79
Fishery Research Vessel	47	0	0	0	0	0	0	47
Fishing Vessel	84	0	0	0	0	0	0	84
Stern Trawler	116	51	0	0	0	0	0	167
Miscellaneous	51	4	41	2	0	0	0	98
Buoy Tender	0	4	0	0	0	0	0	4
Icebreaker	0	0	23	2	0	0	0	25
Icebreaker/Research	0	0	8	0	0	0	0	8
Patrol Vessel	22	0	0	0	0	0	0	22
Research Survey Vessel	0	0	10	0	0	0	0	10
Suction Dredger	18	0	0	0	0	0	0	18
Tug	11	0	0	0	0	0	0	11
Offshore	4	0	0	0	0	0	2	6
FPSO, Oil	0	0	0	0	0	0	2	2
Platform Supply Ship	4	0	0	0	0	0	0	4
Tankers	0	93	1	14	0	0	0	108
Chemical/Products Tanker	0	93	1	14	0	0	0	108
Total	421	573	128	79	31	0	2	1234

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S11. Operational hours in Baffin Bay by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	890	0	0	890
Bulk Carrier	0	0	0	0	890	0	0	890
Dry Cargo/Passenger	1368	3787	1600	965	103	0	0	7822
Container Ship (Fully Cellular)	0	0	253	185	0	0	0	438
General Cargo Ship	115	1427	345	74	0	0	0	1961
General Cargo Ship (with Ro-Ro facility)	0	0	0	44	0	0	0	44
Passenger Ship	291	0	0	0	0	0	0	291
Passenger/Cruise	962	806	1002	457	103	0	0	3330
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	128	0	0	0	128
Refrigerated Cargo Ship	0	1553	0	0	0	0	0	1553
Ro-Ro Cargo Ship	0	0	0	77	0	0	0	77
Fishing	3591	11455	0	0	0	0	0	15046
Factory Stern Trawler	0	4833	0	0	0	0	0	4833
Fishery Research Vessel	617	0	0	0	0	0	0	617
Fishing Vessel	980	0	0	0	0	0	0	980
Stern Trawler	1994	6622	0	0	0	0	0	8616
Miscellaneous	696	154	1942	59	0	0	0	2852
Buoy Tender	0	154	0	0	0	0	0	154
Icebreaker	0	0	1009	59	0	0	0	1069
Icebreaker/Research	0	0	319	0	0	0	0	319
Patrol Vessel	272	0	0	0	0	0	0	272
Research Survey Vessel	0	0	614	0	0	0	0	614
Suction Dredger	267	0	0	0	0	0	0	267
Tug	158	0	0	0	0	0	0	158
Offshore	19	0	0	0	0	0	5	24
FPSO, Oil	0	0	0	0	0	0	5	5
Platform Supply Ship	19	0	0	0	0	0	0	19
Tankers	0	1038	22	361	0	0	0	1421
Chemical/Products Tanker	0	1038	22	361	0	0	0	1421
Total	5675	16433	3565	1386	993	0	5	28056

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Appendix S12. Distance travelled (nm) in Baffin Bay by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	9988	0	0	9988
Bulk Carrier	0	0	0	0	9988	0	0	9988
Dry Cargo/Passenger	8278	33485	18529	12060	1531	0	0	73882
Container Ship (Fully Cellular)	0	0	3002	2906	0	0	0	5907
General Cargo Ship	971	11906	4322	938	0	0	0	18137
General Cargo Ship (with Ro-Ro facility)	0	0	0	578	0	0	0	578
Passenger Ship	2026	0	0	0	0	0	0	2026
Passenger/Cruise	5282	8151	11206	5418	1531	0	0	31587
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	1181	0	0	0	1181
Refrigerated Cargo Ship	0	13428	0	0	0	0	0	13428
Ro-Ro Cargo Ship	0	0	0	1039	0	0	0	1039
Fishing	14418	40984	0	0	0	0	0	55401
Factory Stern Trawler	0	16932	0	0	0	0	0	16932
Fishery Research Vessel	2943	0	0	0	0	0	0	2943
Fishing Vessel	3671	0	0	0	0	0	0	3671
Stern Trawler	7804	24052	0	0	0	0	0	31856
Miscellaneous	5715	1470	12854	517	0	0	0	20556
Buoy Tender	0	1470	0	0	0	0	0	1470
Icebreaker	0	0	6432	517	0	0	0	6949
Icebreaker/Research	0	0	2301	0	0	0	0	2301
Patrol Vessel	2494	0	0	0	0	0	0	2494
Research Survey Vessel	0	0	4121	0	0	0	0	4121
Suction Dredger	1875	0	0	0	0	0	0	1875
Tug	1346	0	0	0	0	0	0	1346
Offshore	215	0	0	0	0	0	44	259
FPSO, Oil	0	0	0	0	0	0	44	44
Platform Supply Ship	215	0	0	0	0	0	0	215
Tankers	0	10858	268	4387	0	0	0	15513
Chemical/Products Tanker	0	10858	268	4387	0	0	0	15513
Total	28626	86796	31651	16964	11519	0	44	175600

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S13. Unique vessel counts for Baffin Bay by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	1	10	8	2	0	0
Bulk Carrier	0	0	0	0	0	0	1	10	8	2	0	0
Dry Cargo/Passenger	1	0	0	1	2	5	11	23	19	3	2	2
Container Ship (Fully Cellular)	0	0	0	0	1	1	2	1	1	0	0	0
General Cargo Ship	1	0	0	1	1	1	3	5	6	2	1	1
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	1	1	0	0	0
Passenger Ship	0	0	0	0	0	0	1	1	0	0	0	0
Passenger/Cruise	0	0	0	0	0	1	4	13	9	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	1	0	0	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	1	1	1	1	1	1	1
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	1	0	0	0	2	5	9	13	18	15	14	3
Factory Stern Trawler	0	0	0	0	0	0	2	2	5	6	5	2
Fishery Research Vessel	0	0	0	0	0	1	1	1	1	0	0	0
Fishing Vessel	0	0	0	0	0	0	1	1	1	1	0	0
Stern Trawler	1	0	0	0	2	4	5	9	11	8	9	1
Miscellaneous	0	0	0	0	0	1	8	8	5	6	1	0
Buoy Tender	0	0	0	0	0	0	1	0	0	0	0	0
Icebreaker	0	0	0	0	0	0	1	2	2	2	1	0
Icebreaker/Research	0	0	0	0	0	0	0	1	0	1	0	0
Patrol Vessel	0	0	0	0	0	0	2	0	2	0	0	0
Research Survey Vessel	0	0	0	0	0	0	1	1	0	0	0	0
Suction Dredger	0	0	0	0	0	1	1	1	0	1	0	0
Tug	0	0	0	0	0	0	2	3	1	2	0	0
Offshore	0	0	0	0	0	0	0	1	2	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	0	1	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	1	1	0	0	0
Tankers	1	0	0	0	1	2	3	5	5	3	2	1
Chemical/Products Tanker	1	0	0	0	1	2	3	5	5	3	2	1
Total	3	0	0	1	5	13	32	60	57	29	19	6

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Appendix S14. Transit counts for Baffin Bay by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	1	16	9	2	0	0
Bulk Carrier	0	0	0	0	0	0	1	16	9	2	0	0
Dry Cargo/Passenger	4	0	0	1	10	67	154	176	107	46	38	27
Container Ship (Fully Cellular)	0	0	0	0	3	2	7	2	7	0	0	0
General Cargo Ship	4	0	0	1	7	20	48	24	29	21	17	14
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	1	3	0	0	0
Passenger Ship	0	0	0	0	0	0	19	8	0	0	0	0
Passenger/Cruise	0	0	0	0	0	11	54	109	41	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	11	0	0	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	23	26	31	25	25	21	13
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	1	2	0	0	0
Fishing	3	0	0	0	8	18	61	106	91	64	41	4
Factory Stern Trawler	0	0	0	0	0	0	10	14	16	22	20	2
Fishery Research Vessel	0	0	0	0	0	3	14	28	3	0	0	0
Fishing Vessel	0	0	0	0	0	0	19	18	26	23	0	0
Stern Trawler	3	0	0	0	8	15	18	46	46	19	21	2
Miscellaneous	0	0	0	0	0	4	38	25	19	12	2	0
Buoy Tender	0	0	0	0	0	0	4	0	0	0	0	0
Icebreaker	0	0	0	0	0	0	3	13	6	2	2	0
Icebreaker/Research	0	0	0	0	0	0	0	5	0	3	0	0
Patrol Vessel	0	0	0	0	0	0	10	0	12	0	0	0
Research Survey Vessel	0	0	0	0	0	0	8	2	0	0	0	0
Suction Dredger	0	0	0	0	0	4	9	2	0	3	0	0
Tug	0	0	0	0	0	0	4	3	1	4	0	0
Offshore	0	0	0	0	0	0	0	1	5	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	0	2	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	1	3	0	0	0
Tankers	2	0	0	0	3	23	12	18	17	14	15	9
Chemical/Products Tanker	2	0	0	0	3	23	12	18	17	14	15	9
Total	9	0	0	1	21	112	266	342	248	138	96	40

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Appendix S15. Operational hours in Baffin Bay by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	23	524	282	61	0	0
Bulk Carrier	0	0	0	0	0	0	23	524	282	61	0	0
Dry Cargo/Passenger	49	0	0	4	145	727	1584	2625	1513	422	376	377
Container Ship (Fully Cellular)	0	0	0	0	50	63	154	59	111	0	0	0
General Cargo Ship	49	0	0	4	95	248	375	263	395	166	158	207
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	43	0	0	0
Passenger Ship	0	0	0	0	0	0	174	117	0	0	0	0
Passenger/Cruise	0	0	0	0	0	105	697	1907	621	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	128	0	0	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	183	184	240	302	256	218	171
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	38	40	0	0	0
Fishing	108	0	0	0	215	524	1065	2292	2948	4532	2955	408
Factory Stern Trawler	0	0	0	0	0	0	165	116	1020	2019	1283	229
Fishery Research Vessel	0	0	0	0	0	30	205	356	27	0	0	0
Fishing Vessel	0	0	0	0	0	0	188	182	289	321	0	0
Stern Trawler	108	0	0	0	215	494	506	1638	1612	2192	1672	179
Miscellaneous	0	0	0	0	0	56	1099	924	273	441	59	0
Buoy Tender	0	0	0	0	0	0	154	0	0	0	0	0
Icebreaker	0	0	0	0	0	0	119	713	101	77	59	0
Icebreaker/Research	0	0	0	0	0	0	0	75	0	244	0	0
Patrol Vessel	0	0	0	0	0	0	101	0	170	0	0	0
Research Survey Vessel	0	0	0	0	0	0	531	84	0	0	0	0
Suction Dredger	0	0	0	0	0	56	124	44	0	43	0	0
Tug	0	0	0	0	0	0	70	8	2	78	0	0
Offshore	0	0	0	0	0	0	0	5	19	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	0	5	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	5	14	0	0	0
Tankers	9	0	0	0	7	250	154	258	354	166	134	89
Chemical/Products Tanker	9	0	0	0	7	250	154	258	354	166	134	89
Total	165	0	0	4	368	1557	3924	6627	5389	5623	3524	874

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S16. Distance travelled (nm) in Baffin Bay by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	317	5815	3185	672	0	0
Bulk Carrier	0	0	0	0	0	0	317	5815	3185	672	0	0
Dry Cargo/Passenger	407	0	0	35	1306	6798	14463	27135	14531	3669	2980	2559
Container Ship (Fully Cellular)	407	0	0	35	894	2231	3480	2707	4088	1640	1159	1496
General Cargo Ship	0	0	0	0	0	0	1198	827	0	0	0	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	514	5739	19955	5379	0	0	0
Passenger Ship	0	0	0	0	0	1181	0	0	0	0	0	0
Passenger/Cruise	0	0	0	0	0	1872	1826	2259	2558	2029	1821	1063
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	412	1000	2220	910	1365	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	6	573	0	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	470	569	0	0	0
Fishing	334	0	0	0	718	1973	3931	8960	11195	16738	10262	1290
Factory Stern Trawler	0	0	0	0	0	0	603	653	3648	7132	4241	655
Fishery Research Vessel	0	0	0	0	0	99	752	1889	203	0	0	0
Fishing Vessel	0	0	0	0	0	0	625	768	1184	1094	0	0
Stern Trawler	334	0	0	0	718	1874	1952	5651	6160	8513	6021	635
Miscellaneous	0	0	0	0	0	395	8148	5286	2836	3373	517	0
Buoy Tender	0	0	0	0	0	0	1470	0	0	0	0	0
Icebreaker	0	0	0	0	0	0	865	3488	1255	823	517	0
Icebreaker/Research	0	0	0	0	0	0	0	630	0	1672	0	0
Patrol Vessel	0	0	0	0	0	0	929	0	1565	0	0	0
Research Survey Vessel	0	0	0	0	0	0	3354	767	0	0	0	0
Suction Dredger	0	0	0	0	0	0	664	90	16	575	0	0
Tug	0	0	0	0	0	395	866	312	0	303	0	0
Offshore	0	0	0	0	0	0	0	62	197	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	62	152	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	0	44	0	0	0
Tankers	67	0	0	0	84	2725	1842	2926	4038	1749	1281	801
Chemical/Products Tanker	67	0	0	0	84	2725	1842	2926	4038	1749	1281	801
Total	808	0	0	35	2108	11892	28701	50184	35982	26200	15040	4650

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S17. Unique vessel counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	12	3	81	163	22	0	281
Bulk Carrier	0	7	1	81	162	22	0	273
Bulk Carrier, Self-discharging	0	0	0	0	1	0	0	1
Cement Carrier	0	0	2	0	0	0	0	2
Limestone Carrier	0	1	0	0	0	0	0	1
Ore/Oil Carrier	0	4	0	0	0	0	0	4
Dry Cargo/Passenger	26	169	85	60	21	11	3	375
Container Ship (Fully Cellular)	0	0	2	0	0	0	0	2
General Cargo Ship	12	119	68	28	1	0	0	228
General Cargo Ship (with Ro-Ro facility)	0	0	0	3	0	0	0	3
General Cargo Ship, Self-discharging	0	2	0	0	0	0	0	2
General Cargo/Passenger Ship	0	3	2	0	0	0	0	5
Heavy Load Carrier	0	0	0	2	0	0	0	2
Heavy Load Carrier, semi submersible	0	0	0	2	3	0	0	5
Landing Craft	2	0	0	0	0	0	0	2
Nuclear Fuel Carrier	0	2	1	0	0	0	0	3
Open Hatch Cargo Ship	0	0	0	1	2	0	0	3
Palletised Cargo Ship	1	2	0	0	0	0	0	3
Passenger Ship	6	3	0	0	0	0	0	9
Passenger/Cruise	4	7	5	13	15	11	3	58
Passenger/Ro-Ro Ship (Vehicles)	1	0	0	10	0	0	0	11
Refrigerated Cargo Ship	0	27	6	0	0	0	0	33
Ro-Ro Cargo Ship	0	4	1	1	0	0	0	6
Fishing	264	189	5	0	0	0	0	458
Factory Stern Trawler	2	47	5	0	0	0	0	54
Fish Carrier	6	1	0	0	0	0	0	7
Fish Factory Ship	0	2	0	0	0	0	0	2
Fish Farm Support Vessel	0	2	0	0	0	0	0	2
Fishery Research Vessel	2	1	0	0	0	0	0	3
Fishing Vessel	132	32	0	0	0	0	0	164
Live Fish Carrier (Well Boat)	11	3	0	0	0	0	0	14
Seal Catcher	3	0	0	0	0	0	0	3
Stern Trawler	102	91	0	0	0	0	0	193
Trawler	6	10	0	0	0	0	0	16

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S17. Unique vessel counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	64	58	16	11	2	0	0	151
Bunkering Tanker	2	0	0	0	0	0	0	2
Buoy & Lighthouse Tender	3	0	0	0	0	0	0	3
Cable Layer	1	0	1	0	0	0	0	2
Crane Vessel	1	1	0	0	1	0	0	3
Cutter Suction Dredger	0	0	1	0	0	0	0	1
Hopper, Motor	3	5	0	0	0	0	0	8
Icebreaker	0	5	3	3	0	0	0	11
Icebreaker/Research	0	0	0	2	0	0	0	2
Patrol Vessel	4	3	1	0	0	0	0	8
Pollution Control Vessel	2	0	0	0	0	0	0	2
Research Survey Vessel	9	30	5	3	0	0	0	47
Salvage Ship	0	2	0	0	0	0	0	2
Search & Rescue Vessel	1	0	0	0	0	0	0	1
Trailing Suction Hopper Dredger	0	4	3	3	1	0	0	11
Tug	36	7	2	0	0	0	0	45
Utility Vessel	2	0	0	0	0	0	0	2
Work/Repair Vessel	0	1	0	0	0	0	0	1
Offshore	9	26	12	0	1	0	2	50
Anchor Handling Tug Supply	0	14	10	0	0	0	0	24
Crew/Supply Vessel	1	0	0	0	0	0	0	1
Diving Support Vessel	1	0	0	0	0	0	0	1
Drilling Ship	1	1	0	0	0	0	0	2
FPSO, Oil	0	0	0	0	0	0	1	1
FSO, Oil	0	0	0	0	1	0	1	2
Offshore Support Vessel	0	2	1	0	0	0	0	3
Offshore Tug/Supply Ship	1	4	0	0	0	0	0	5
Platform Supply Ship	1	5	1	0	0	0	0	7
Standby Safety Vessel	4	0	0	0	0	0	0	4

Appendix S17. Unique vessel counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	3	27	9	49	28	49	6	171
Asphalt/Bitumen Tanker	0	1	0	0	0	0	0	1
Chemical Tanker	0	5	0	0	0	0	0	5
Chemical/Products Tanker	0	9	5	38	20	0	0	72
Crude Oil Tanker	0	0	0	0	1	24	0	25
Crude/Oil Products Tanker	0	0	0	3	0	23	0	26
LNG Tanker	0	0	0	0	0	0	6	6
Products Tanker	2	11	4	8	2	1	0	28
Shuttle Tanker	0	0	0	0	5	1	0	6
Tanker (unspecified)	1	0	0	0	0	0	0	1
Vegetable Oil Tanker	0	1	0	0	0	0	0	1
Total	366	481	130	201	215	82	11	1486

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Appendix S18. Transit counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	225	46	417	574	91	0	1353
Bulk Carrier	0	131	1	417	573	91	0	1213
Bulk Carrier, Self-discharging	0	0	0	0	1	0	0	1
Cement Carrier	0	0	45	0	0	0	0	45
Limestone Carrier	0	6	0	0	0	0	0	6
Ore/Oil Carrier	0	88	0	0	0	0	0	88
Dry Cargo/Passenger	512	2355	734	1182	87	35	19	4924
Container Ship (Fully Cellular)	0	0	16	0	0	0	0	16
General Cargo Ship	111	1290	492	265	1	0	0	2159
General Cargo Ship (with Ro-Ro facility)	0	0	0	55	0	0	0	55
General Cargo Ship, Self-discharging	0	53	0	0	0	0	0	53
General Cargo/Passenger Ship	0	77	72	0	0	0	0	149
Heavy Load Carrier	0	0	0	5	0	0	0	5
Heavy Load Carrier, semi submersible	0	0	0	5	7	0	0	12
Landing Craft	2	0	0	0	0	0	0	2
Nuclear Fuel Carrier	0	13	2	0	0	0	0	15
Open Hatch Cargo Ship	0	0	0	2	9	0	0	11
Palletised Cargo Ship	5	3	0	0	0	0	0	8
Passenger Ship	272	56	0	0	0	0	0	328
Passenger/Cruise	107	260	85	90	70	35	19	666
Passenger/Ro-Ro Ship (Vehicles)	15	0	0	756	0	0	0	771
Refrigerated Cargo Ship	0	570	65	0	0	0	0	635
Ro-Ro Cargo Ship	0	33	2	4	0	0	0	39
Fishing	9805	2811	48	0	0	0	0	12664
Factory Stern Trawler	19	525	48	0	0	0	0	592
Fish Carrier	406	22	0	0	0	0	0	428
Fish Factory Ship	0	116	0	0	0	0	0	116
Fish Farm Support Vessel	0	5	0	0	0	0	0	5
Fishery Research Vessel	20	3	0	0	0	0	0	23
Fishing Vessel	4906	625	0	0	0	0	0	5531
Live Fish Carrier (Well Boat)	357	38	0	0	0	0	0	395
Seal Catcher	259	0	0	0	0	0	0	259
Stern Trawler	3766	1394	0	0	0	0	0	5160
Trawler	72	83	0	0	0	0	0	155

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Appendix S18. Transit counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	1445	584	341	108	10	0	0	2488
Bunkering Tanker	36	0	0	0	0	0	0	36
Buoy & Lighthouse Tender	18	0	0	0	0	0	0	18
Cable Layer	4	0	23	0	0	0	0	27
Crane Vessel	16	1	0	0	4	0	0	21
Cutter Suction Dredger	0	0	5	0	0	0	0	5
Hopper, Motor	47	23	0	0	0	0	0	70
Icebreaker	0	31	147	64	0	0	0	242
Icebreaker/Research	0	0	0	19	0	0	0	19
Patrol Vessel	144	76	9	0	0	0	0	229
Pollution Control Vessel	70	0	0	0	0	0	0	70
Research Survey Vessel	127	276	54	12	0	0	0	469
Salvage Ship	0	7	0	0	0	0	0	7
Search & Rescue Vessel	81	0	0	0	0	0	0	81
Trailing Suction Hopper Dredger	0	18	13	13	6	0	0	50
Tug	867	137	90	0	0	0	0	1094
Utility Vessel	35	0	0	0	0	0	0	35
Work/Repair Vessel	0	15	0	0	0	0	0	15
Offshore	82	498	144	0	11	0	4	739
Anchor Handling Tug Supply	0	344	131	0	0	0	0	475
Crew/Supply Vessel	7	0	0	0	0	0	0	7
Diving Support Vessel	4	0	0	0	0	0	0	4
Drilling Ship	4	8	0	0	0	0	0	12
FPSO, Oil	0	0	0	0	0	0	1	1
FSO, Oil	0	0	0	0	11	0	3	14
Offshore Support Vessel	0	21	2	0	0	0	0	23
Offshore Tug/Supply Ship	10	48	0	0	0	0	0	58
Platform Supply Ship	3	77	11	0	0	0	0	91
Standby Safety Vessel	54	0	0	0	0	0	0	54

Appendix S18. Transit counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	55	485	79	490	585	313	12	2019
Asphalt/Bitumen Tanker	0	2	0	0	0	0	0	2
Chemical Tanker	0	98	0	0	0	0	0	98
Chemical/Products Tanker	0	104	41	334	66	0	0	545
Crude Oil Tanker	0	0	0	0	2	170	0	172
Crude/Oil Products Tanker	0	0	0	70	0	126	0	196
LNG Tanker	0	0	0	0	0	0	12	12
Products Tanker	17	241	38	86	9	8	0	399
Shuttle Tanker	0	0	0	0	508	9	0	517
Tanker (unspecified)	38	0	0	0	0	0	0	38
Vegetable Oil Tanker	0	40	0	0	0	0	0	40
Total	11899	6958	1392	2197	1267	439	35	24187

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Appendix S19. Operational hours in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	3777	861	12560	12914	1868	0	31979
Bulk Carrier	0	1477	2	12560	12909	1868	0	28815
Bulk Carrier, Self-discharging	0	0	0	0	5	0	0	5
Cement Carrier	0	0	859	0	0	0	0	859
Limestone Carrier	0	159	0	0	0	0	0	159
Ore/Oil Carrier	0	2141	0	0	0	0	0	2141
Dry Cargo/Passenger	3373	50736	19002	23851	1088	178	45	98273
Container Ship (Fully Cellular)	0	0	464	0	0	0	0	464
General Cargo Ship	1264	32682	15490	8437	48	0	0	57921
General Cargo Ship (with Ro-Ro facility)	0	0	0	1831	0	0	0	1831
General Cargo Ship, Self-discharging	0	476	0	0	0	0	0	476
General Cargo/Passenger Ship	0	1205	1122	0	0	0	0	2327
Heavy Load Carrier	0	0	0	268	0	0	0	268
Heavy Load Carrier, semi submersible	0	0	0	222	196	0	0	418
Landing Craft	13	0	0	0	0	0	0	13
Nuclear Fuel Carrier	0	107	5	0	0	0	0	112
Open Hatch Cargo Ship	0	0	0	46	392	0	0	437
Palletised Cargo Ship	89	169	0	0	0	0	0	257
Passenger Ship	731	688	0	0	0	0	0	1418
Passenger/Cruise	1230	4477	960	2306	453	178	45	9650
Passenger/Ro-Ro Ship (Vehicles)	47	0	0	10717	0	0	0	10764
Refrigerated Cargo Ship	0	10273	943	0	0	0	0	11216
Ro-Ro Cargo Ship	0	660	18	23	0	0	0	701
Fishing	489128	370755	4575	0	0	0	0	864458
Factory Stern Trawler	3851	98901	4575	0	0	0	0	107327
Fish Carrier	13422	1350	0	0	0	0	0	14771
Fish Factory Ship	0	2905	0	0	0	0	0	2905
Fish Farm Support Vessel	0	38	0	0	0	0	0	38
Fishery Research Vessel	516	11	0	0	0	0	0	528
Fishing Vessel	181616	36176	0	0	0	0	0	217792
Live Fish Carrier (Well Boat)	3508	277	0	0	0	0	0	3785
Seal Catcher	11928	0	0	0	0	0	0	11928
Stern Trawler	270821	221493	0	0	0	0	0	492314
Trawler	3465	9604	0	0	0	0	0	13069

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Appendix S19. Operational hours in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	21052	32728	11517	4786	295	0	0	70378
Bunkering Tanker	136	0	0	0	0	0	0	136
Buoy & Lighthouse Tender	98	0	0	0	0	0	0	98
Cable Layer	31	0	1639	0	0	0	0	1670
Crane Vessel	65	99	0	0	170	0	0	333
Cutter Suction Dredger	0	0	174	0	0	0	0	174
Hopper, Motor	451	799	0	0	0	0	0	1250
Icebreaker	0	697	2193	1673	0	0	0	4564
Icebreaker/Research	0	0	0	555	0	0	0	555
Patrol Vessel	1771	1786	83	0	0	0	0	3640
Pollution Control Vessel	339	0	0	0	0	0	0	339
Research Survey Vessel	7204	21422	4359	2175	0	0	0	35160
Salvage Ship	0	173	0	0	0	0	0	173
Search & Rescue Vessel	323	0	0	0	0	0	0	323
Trailing Suction Hopper Dredger	0	673	497	382	125	0	0	1677
Tug	10311	6162	2571	0	0	0	0	19044
Utility Vessel	322	0	0	0	0	0	0	322
Work/Repair Vessel	0	919	0	0	0	0	0	919
Offshore	7412	8889	2997	0	234	0	55	19586
Anchor Handling Tug Supply	0	6414	2808	0	0	0	0	9223
Crew/Supply Vessel	243	0	0	0	0	0	0	243
Diving Support Vessel	92	0	0	0	0	0	0	92
Drilling Ship	150	123	0	0	0	0	0	272
FPSO, Oil	0	0	0	0	0	0	2	2
FSO, Oil	0	0	0	0	234	0	53	287
Offshore Support Vessel	0	479	17	0	0	0	0	497
Offshore Tug/Supply Ship	285	672	0	0	0	0	0	957
Platform Supply Ship	19	1201	171	0	0	0	0	1391
Standby Safety Vessel	6623	0	0	0	0	0	0	6623

Appendix S19. Operational hours in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	325	10290	2158	12960	15811	4817	232	46593
Asphalt/Bitumen Tanker	0	16	0	0	0	0	0	16
Chemical Tanker	0	1524	0	0	0	0	0	1524
Chemical/Products Tanker	0	1863	922	8102	1585	0	0	12473
Crude Oil Tanker	0	0	0	0	30	2609	0	2639
Crude/Oil Products Tanker	0	0	0	2149	0	2089	0	4238
LNG Tanker	0	0	0	0	0	0	232	232
Products Tanker	205	5991	1236	2708	138	57	0	10336
Shuttle Tanker	0	0	0	0	14057	63	0	14120
Tanker (unspecified)	120	0	0	0	0	0	0	120
Vegetable Oil Tanker	0	896	0	0	0	0	0	896
Total	521289	477174	41109	54157	30342	6863	332	1131267

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Appendix S20. Distance travelled (nm) in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	31250	10061	125115	134167	16907	0	317500
Bulk Carrier	0	13651	15	125115	134109	16907	0	289797
Bulk Carrier, Self-discharging	0	0	0	0	58	0	0	58
Cement Carrier	0	0	10046	0	0	0	0	10046
Limestone Carrier	0	1447	0	0	0	0	0	1447
Ore/Oil Carrier	0	16152	0	0	0	0	0	16152
Dry Cargo/Passenger	26472	461432	200814	266302	13156	2726	641	971544
Container Ship (Fully Cellular)	0	0	5336	0	0	0	0	5336
General Cargo Ship	10244	291876	165394	104408	430	0	0	572351
General Cargo Ship (with Ro-Ro facility)	0	0	0	22353	0	0	0	22353
General Cargo Ship, Self-discharging	0	4006	0	0	0	0	0	4006
General Cargo/Passenger Ship	0	12236	11345	0	0	0	0	23581
Heavy Load Carrier	0	0	0	3189	0	0	0	3189
Heavy Load Carrier, semi submersible	0	0	0	2990	1975	0	0	4965
Landing Craft	30	0	0	0	0	0	0	30
Nuclear Fuel Carrier	0	892	32	0	0	0	0	924
Open Hatch Cargo Ship	0	0	0	548	4455	0	0	5003
Palletised Cargo Ship	548	1588	0	0	0	0	0	2136
Passenger Ship	7478	4598	0	0	0	0	0	12076
Passenger/Cruise	7654	46117	8322	23232	6295	2726	641	94986
Passenger/Ro-Ro Ship (Vehicles)	518	0	0	109309	0	0	0	109827
Refrigerated Cargo Ship	0	94196	10156	0	0	0	0	104352
Ro-Ro Cargo Ship	0	5924	231	275	0	0	0	6429
Fishing	2065988	1627039	25502	0	0	0	0	3718528
Factory Stern Trawler	18296	433331	25502	0	0	0	0	477128
Fish Carrier	83177	7794	0	0	0	0	0	90970
Fish Factory Ship	0	19158	0	0	0	0	0	19158
Fish Farm Support Vessel	0	329	0	0	0	0	0	329
Fishery Research Vessel	2554	56	0	0	0	0	0	2609
Fishing Vessel	696502	148433	0	0	0	0	0	844935
Live Fish Carrier (Well Boat)	26822	2119	0	0	0	0	0	28940
Seal Catcher	48176	0	0	0	0	0	0	48176
Stern Trawler	1172939	975602	0	0	0	0	0	2148541
Trawler	17523	40217	0	0	0	0	0	57741

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Appendix S20. Distance travelled (nm) in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	116027	182900	73300	46151	3272	0	0	421650
Bunkering Tanker	949	0	0	0	0	0	0	949
Buoy & Lighthouse Tender	765	0	0	0	0	0	0	765
Cable Layer	265	0	5875	0	0	0	0	6140
Crane Vessel	239	751	0	0	1607	0	0	2597
Cutter Suction Dredger	0	0	1667	0	0	0	0	1667
Hopper, Motor	2560	7195	0	0	0	0	0	9755
Icebreaker	0	7143	9051	23735	0	0	0	39929
Icebreaker/Research	0	0	0	6840	0	0	0	6840
Patrol Vessel	8279	9443	544	0	0	0	0	18266
Pollution Control Vessel	2008	0	0	0	0	0	0	2008
Research Survey Vessel	37378	111626	24641	10862	0	0	0	184507
Salvage Ship	0	1301	0	0	0	0	0	1301
Search & Rescue Vessel	3731	0	0	0	0	0	0	3731
Trailing Suction Hopper Dredger	0	6197	5151	4714	1665	0	0	17727
Tug	57708	31735	26372	0	0	0	0	115815
Utility Vessel	2146	0	0	0	0	0	0	2146
Work/Repair Vessel	0	7508	0	0	0	0	0	7508
Offshore	45084	54684	28405	0	1351	0	396	129920
Anchor Handling Tug Supply	0	34887	26901	0	0	0	0	61788
Crew/Supply Vessel	1708	0	0	0	0	0	0	1708
Diving Support Vessel	734	0	0	0	0	0	0	734
Drilling Ship	1370	1006	0	0	0	0	0	2376
FPSO, Oil	0	0	0	0	0	0	27	27
FSO, Oil	0	0	0	0	1351	0	369	1720
Offshore Support Vessel	0	5041	145	0	0	0	0	5185
Offshore Tug/Supply Ship	1477	4232	0	0	0	0	0	5708
Platform Supply Ship	222	9518	1359	0	0	0	0	11099
Standby Safety Vessel	39573	0	0	0	0	0	0	39573

Appendix S20. Distance travelled (nm) in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	2403	83196	18652	145294	158886	36497	1602	446530
Asphalt/Bitumen Tanker	0	167	0	0	0	0	0	167
Chemical Tanker	0	14229	0	0	0	0	0	14229
Chemical/Products Tanker	0	14960	8375	93797	15080	0	0	132213
Crude Oil Tanker	0	0	0	0	367	19340	0	19707
Crude/Oil Products Tanker	0	0	0	22639	0	16075	0	38714
LNG Tanker	0	0	0	0	0	0	1602	1602
Products Tanker	1659	47547	10277	28858	1297	569	0	90207
Shuttle Tanker	0	0	0	0	142141	512	0	142654
Tanker (unspecified)	744	0	0	0	0	0	0	744
Vegetable Oil Tanker	0	6293	0	0	0	0	0	6293
Total	2255973	2440500	356734	582863	310832	56130	2639	6005671

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Appendix S21. Unique vessel counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	45	42	48	45	51	47	57	47	49	55	52	49
Bulk Carrier	45	40	47	43	50	45	52	41	43	51	49	48
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	1	0	0	0	0
Cement Carrier	0	1	1	2	1	1	1	1	1	1	1	1
Limestone Carrier	0	1	0	0	0	0	0	0	1	0	1	0
Ore/Oil Carrier	0	0	0	0	0	1	4	4	4	3	1	0
Dry Cargo/Passenger	80	83	91	100	107	151	162	160	144	142	110	94
Container Ship (Fully Cellular)	0	0	0	1	1	1	1	1	2	1	0	1
General Cargo Ship	51	54	57	61	62	74	78	92	90	95	78	64
General Cargo Ship (with Ro-Ro facility)	2	2	2	2	3	3	3	3	3	2	3	2
General Cargo Ship, Self-discharging	1	0	1	2	0	1	1	1	2	2	2	1
General Cargo/Passenger Ship	2	2	2	2	2	4	3	3	3	2	2	2
Heavy Load Carrier	0	0	0	0	0	0	1	2	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	1	0	3	2	0	0
Landing Craft	0	0	0	0	2	0	0	0	0	0	0	0
Nuclear Fuel Carrier	0	0	1	0	1	0	0	0	0	2	1	1
Open Hatch Cargo Ship	0	0	0	0	1	0	1	2	1	0	0	0
Palletised Cargo Ship	0	0	0	1	0	0	1	2	0	1	0	0
Passenger Ship	2	2	2	2	1	6	5	3	2	1	0	0
Passenger/Cruise	2	4	5	3	11	38	37	24	7	4	1	2
Passenger/Ro-Ro Ship (Vehicles)	9	9	9	9	9	9	10	10	10	10	9	10
Refrigerated Cargo Ship	11	10	11	16	11	13	18	15	18	20	13	11
Ro-Ro Cargo Ship	0	0	1	1	3	2	2	2	2	0	1	0
Fishing	172	167	171	206	251	246	226	244	264	272	252	232
Factory Stern Trawler	28	21	20	18	23	27	23	26	28	31	32	36
Fish Carrier	4	4	5	5	4	6	6	6	6	7	6	4
Fish Factory Ship	1	2	2	2	2	2	1	1	1	1	2	2
Fish Farm Support Vessel	0	0	0	0	0	0	0	1	1	0	1	0
Fishery Research Vessel	0	1	1	1	2	0	0	2	1	2	1	0
Fishing Vessel	40	48	50	65	87	77	56	78	90	79	71	59
Live Fish Carrier (Well Boat)	4	7	5	3	8	8	5	4	4	6	5	6
Seal Catcher	2	2	3	2	2	3	3	3	2	2	2	2
Stern Trawler	90	76	75	107	120	120	127	119	129	139	127	118
Trawler	3	6	10	3	3	3	5	4	2	5	5	5

Appendix S21. Unique vessel counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	22	22	32	38	37	59	81	81	59	78	46	28
Bunkering Tanker	1	1	1	1	1	2	1	1	1	1	1	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	3	2	0	0	0
Cable Layer	1	1	1	1	0	0	0	0	0	1	1	0
Crane Vessel	0	0	1	1	1	0	2	1	1	1	0	0
Cutter Suction Dredger	0	0	0	0	0	0	1	0	0	1	0	0
Hopper, Motor	1	1	1	2	0	0	4	4	2	6	5	0
Icebreaker	2	3	4	3	4	7	5	5	2	4	3	4
Icebreaker/Research	0	0	0	0	1	1	1	2	2	2	0	0
Patrol Vessel	2	2	3	4	2	4	3	4	2	6	5	4
Pollution Control Vessel	0	0	1	1	1	2	1	1	0	0	1	0
Research Survey Vessel	3	3	5	10	13	22	30	28	19	23	8	2
Salvage Ship	1	0	1	0	0	0	0	0	0	0	1	1
Search & Rescue Vessel	1	1	1	1	1	1	1	1	1	1	1	1
Trailing Suction Hopper Dredger	0	0	0	0	0	0	10	3	4	8	1	0
Tug	10	10	13	14	12	19	21	27	21	21	18	16
Utility Vessel	0	0	0	0	0	0	1	0	1	2	1	0
Work/Repair Vessel	0	0	0	0	1	1	0	1	1	1	0	0
Offshore	4	4	7	11	12	13	22	12	16	20	13	15
Anchor Handling Tug Supply	3	2	5	7	7	6	10	6	7	9	7	9
Crew/Supply Vessel	0	0	0	0	0	0	1	0	0	1	0	0
Diving Support Vessel	0	0	0	0	0	0	1	0	0	1	0	0
Drilling Ship	0	0	0	0	0	0	1	0	1	2	0	0
FPSO, Oil	0	0	0	0	0	0	1	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	1	1	0	1
Offshore Support Vessel	0	0	0	0	0	1	2	0	1	2	1	1
Offshore Tug/Supply Ship	1	1	1	1	1	2	2	3	2	2	2	2
Platform Supply Ship	0	0	0	2	3	1	1	1	2	1	3	2
Standby Safety Vessel	0	1	1	1	1	3	3	2	2	1	0	0

Appendix S21. Unique vessel counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	40	47	45	49	40	39	49	52	54	49	49	44
Asphalt/Bitumen Tanker	0	0	0	0	1	0	0	0	0	0	0	0
Chemical Tanker	1	2	3	3	3	3	3	3	3	3	4	2
Chemical/Products Tanker	18	20	18	17	16	15	20	20	19	17	13	15
Crude Oil Tanker	5	5	3	3	3	3	3	3	3	3	5	3
Crude/Oil Products Tanker	4	4	6	8	5	5	6	3	5	5	5	7
LNG Tanker	0	3	2	0	0	0	0	1	1	0	2	1
Products Tanker	7	8	8	12	7	7	10	14	15	14	14	11
Shuttle Tanker	5	5	4	5	4	4	5	6	6	5	5	5
Tanker (unspecified)	0	0	1	1	1	1	1	1	1	1	1	0
Vegetable Oil Tanker	0	0	0	0	0	1	1	1	1	1	0	0
Total	363	365	394	449	498	555	597	596	586	616	522	462

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Appendix S22. Transit counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	101	83	114	108	124	106	147	123	140	123	115	104
Bulk Carrier	101	78	111	105	118	99	121	96	104	103	106	102
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	1	0	0	0	0
Cement Carrier	0	3	3	3	6	3	6	6	5	5	3	2
Limestone Carrier	0	2	0	0	0	0	0	0	2	0	2	0
Ore/Oil Carrier	0	0	0	0	0	4	20	20	29	15	4	0
Dry Cargo/Passenger	273	278	324	325	393	535	679	672	493	436	306	314
Container Ship (Fully Cellular)	0	0	0	2	2	2	1	2	4	2	0	2
General Cargo Ship	119	123	131	142	160	173	235	314	256	229	176	153
General Cargo Ship (with Ro-Ro facility)	3	2	4	4	6	3	12	5	6	6	4	3
General Cargo Ship, Self-discharging	1	0	3	7	0	5	2	2	6	12	10	5
General Cargo/Passenger Ship	10	7	18	10	15	16	14	17	15	10	7	12
Heavy Load Carrier	0	0	0	0	0	0	1	3	2	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	3	0	7	3	0	0
Landing Craft	0	0	0	0	2	0	0	0	0	0	0	0
Nuclear Fuel Carrier	0	0	2	0	3	0	0	0	0	4	4	2
Open Hatch Cargo Ship	0	0	0	0	2	0	2	6	1	0	0	0
Palletised Cargo Ship	0	0	0	1	0	0	1	5	0	1	0	0
Passenger Ship	38	29	39	23	33	48	56	43	18	2	0	0
Passenger/Cruise	15	14	21	23	44	144	209	133	37	16	8	11
Passenger/Ro-Ro Ship (Vehicles)	57	53	61	63	64	75	67	80	64	75	59	72
Refrigerated Cargo Ship	30	50	41	49	56	65	69	58	66	76	35	54
Ro-Ro Cargo Ship	0	0	4	1	6	4	7	4	11	0	3	0
Fishing	630	724	668	1045	1483	1541	1074	1250	1485	1500	1263	1006
Factory Stern Trawler	50	69	48	34	47	57	62	60	63	68	66	97
Fish Carrier	14	23	43	41	34	40	33	46	44	43	43	39
Fish Factory Ship	1	11	11	11	12	12	13	5	7	11	13	12
Fish Farm Support Vessel	0	0	0	0	0	0	0	1	2	0	2	0
Fishery Research Vessel	0	1	1	1	4	0	0	11	1	4	1	0
Fishing Vessel	236	253	219	457	799	713	367	533	677	670	542	300
Live Fish Carrier (Well Boat)	31	29	22	14	22	45	20	20	15	45	76	60
Seal Catcher	28	15	14	33	29	47	26	22	13	22	8	18
Stern Trawler	265	298	274	444	528	620	534	543	655	626	498	463
Trawler	5	25	36	10	8	7	19	9	8	11	14	17

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S22. Transit counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	139	125	162	184	171	308	354	351	213	259	193	119
Bunkering Tanker	3	1	1	1	3	5	7	10	2	1	2	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	7	11	0	0	0
Cable Layer	9	6	8	2	0	0	0	0	0	1	3	0
Crane Vessel	0	0	6	6	3	0	2	2	2	1	0	0
Cutter Suction Dredger	0	0	0	0	0	0	3	0	0	2	0	0
Hopper, Motor	13	5	4	6	0	0	10	6	3	13	12	0
Icebreaker	11	16	31	20	13	36	28	20	15	21	16	17
Icebreaker/Research	0	0	0	0	2	1	1	5	2	10	0	0
Patrol Vessel	17	18	12	27	16	24	14	23	13	23	32	14
Pollution Control Vessel	0	0	6	5	9	21	15	12	0	0	2	0
Research Survey Vessel	3	8	10	28	35	91	114	107	55	51	18	4
Salvage Ship	2	0	2	0	0	0	0	0	0	0	1	2
Search & Rescue Vessel	2	6	9	13	10	12	8	6	6	2	5	2
Trailing Suction Hopper Dredger	0	0	0	0	0	0	27	6	5	11	2	0
Tug	79	65	73	76	75	117	122	144	88	101	94	80
Utility Vessel	0	0	0	0	0	0	3	0	7	19	6	0
Work/Repair Vessel	0	0	0	0	5	1	0	3	4	3	0	0
Offshore	28	35	54	61	50	59	77	58	85	105	67	78
Anchor Handling Tug Supply	25	26	49	34	28	42	48	37	48	65	34	46
Crew/Supply Vessel	0	0	0	0	0	0	4	0	0	3	0	0
Diving Support Vessel	0	0	0	0	0	0	2	0	0	2	0	0
Drilling Ship	0	0	0	0	0	0	2	0	5	5	0	0
FPSO, Oil	0	0	0	0	0	0	1	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	5	6	0	3
Offshore Support Vessel	0	0	0	0	0	4	4	0	3	6	5	2
Offshore Tug/Supply Ship	3	7	3	3	3	4	4	5	5	6	15	2
Platform Supply Ship	0	0	0	14	16	2	2	8	7	5	13	25
Standby Safety Vessel	0	2	2	10	3	7	10	8	12	7	0	0

Appendix S22. Transit counts for the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	170	189	175	172	135	137	179	213	182	191	155	162
Asphalt/Bitumen Tanker	0	0	0	0	2	0	0	0	0	0	0	0
Chemical Tanker	5	5	4	12	14	8	11	7	14	5	10	4
Chemical/Products Tanker	52	56	48	44	34	43	58	57	50	43	31	38
Crude Oil Tanker	14	25	22	6	8	4	7	15	9	21	16	26
Crude/Oil Products Tanker	15	18	19	26	13	22	21	10	14	17	13	10
LNG Tanker	0	4	2	0	0	0	0	1	1	0	3	1
Products Tanker	22	24	31	39	22	19	29	56	44	55	33	35
Shuttle Tanker	62	57	47	40	37	32	38	47	40	40	47	48
Tanker (unspecified)	0	0	2	5	5	4	7	4	7	2	2	0
Vegetable Oil Tanker	0	0	0	0	0	5	8	16	3	8	0	0
Total	1341	1434	1497	1895	2356	2686	2510	2667	2598	2614	2099	1783

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S23. Operational hours in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	2272	2300	2717	2474	3080	2279	3192	2712	3034	2851	2690	2378
Bulk Carrier	2272	2143	2664	2429	2963	2173	2572	2036	2268	2387	2554	2353
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	5	0	0	0	0
Cement Carrier	0	105	53	45	117	69	106	109	89	91	49	26
Limestone Carrier	0	52	0	0	0	0	0	0	51	0	56	0
Ore/Oil Carrier	0	0	0	0	0	37	513	561	626	372	31	0
Dry Cargo/Passenger	4872	5266	6794	6822	7507	8909	11887	12469	10852	9658	6687	6550
Container Ship (Fully Cellular)	0	0	0	72	66	50	1	66	102	49	0	57
General Cargo Ship	2848	3171	3711	4054	4353	4798	5995	7210	7043	6157	4585	3998
General Cargo Ship (with Ro-Ro facility)	151	31	250	196	200	86	318	132	193	114	109	51
General Cargo Ship, Self-discharging	8	0	12	66	0	45	7	40	41	109	119	28
General Cargo/Passenger Ship	199	118	212	193	219	235	219	215	197	197	153	170
Heavy Load Carrier	0	0	0	0	0	0	50	143	75	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	70	0	254	94	0	0
Landing Craft	0	0	0	0	13	0	0	0	0	0	0	0
Nuclear Fuel Carrier	0	0	5	0	41	0	0	0	0	46	14	6
Open Hatch Cargo Ship	0	0	0	0	46	0	109	256	27	0	0	0
Palletised Cargo Ship	0	0	0	6	0	0	30	140	0	80	0	0
Passenger Ship	87	63	76	77	80	257	411	264	58	44	0	0
Passenger/Cruise	265	290	683	662	591	1575	2346	1887	619	401	113	217
Passenger/Ro-Ro Ship (Vehicles)	889	697	940	884	880	888	944	1020	862	912	889	960
Refrigerated Cargo Ship	425	896	883	579	906	866	1272	1023	1175	1453	675	1064
Ro-Ro Cargo Ship	0	0	23	34	112	109	114	73	207	0	30	0
Fishing	43079	40718	42039	52121	72141	77745	78750	81308	88207	98241	97849	92260
Factory Stern Trawler	5024	6086	3767	2878	7411	8757	10194	10808	10230	12493	14867	14812
Fish Carrier	539	1277	1455	1350	1047	935	944	1297	1434	1757	1565	1173
Fish Factory Ship	29	156	359	304	191	266	306	158	221	295	366	254
Fish Farm Support Vessel	0	0	0	0	0	0	0	6	14	0	17	0
Fishery Research Vessel	0	13	2	14	25	0	0	340	60	54	20	0
Fishing Vessel	13808	12340	10738	12121	21758	21909	16093	16846	23147	26970	24585	17476
Live Fish Carrier (Well Boat)	210	248	193	144	210	703	368	201	139	354	571	445
Seal Catcher	1235	723	1100	1151	1107	932	1143	613	1173	1130	1014	608
Stern Trawler	21765	18861	22896	33161	39756	43958	48917	49834	50784	53995	53201	55186
Trawler	469	1014	1530	998	637	285	783	1206	1006	1194	1644	2305

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S23. Operational hours in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	1737	1730	2359	2973	7244	9179	13620	10575	7449	8156	3568	1789
Bunkering Tanker	10	1	1	8	8	33	20	40	12	1	2	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	16	83	0	0	0
Cable Layer	436	411	446	345	0	0	0	0	0	6	25	0
Crane Vessel	0	0	13	34	15	0	101	85	70	15	0	0
Cutter Suction Dredger	0	0	0	0	0	0	90	0	0	84	0	0
Hopper, Motor	19	9	10	44	0	0	272	148	139	479	132	0
Icebreaker	154	257	468	233	318	779	601	417	288	444	297	306
Icebreaker/Research	0	0	0	0	88	22	30	155	68	191	0	0
Patrol Vessel	175	264	144	343	316	300	282	342	158	251	648	416
Pollution Control Vessel	0	0	25	24	54	122	47	51	0	0	16	0
Research Survey Vessel	259	267	385	1187	4550	6006	8213	5964	3653	3473	988	214
Salvage Ship	7	0	54	0	0	0	0	0	0	0	24	88
Search & Rescue Vessel	6	26	53	48	30	63	37	20	15	4	19	2
Trailing Suction Hopper Dredger	0	0	0	0	0	0	653	254	212	538	20	0
Tug	672	495	759	705	1347	1833	3169	3001	2500	2427	1374	762
Utility Vessel	0	0	0	0	0	0	105	0	40	154	23	0
Work/Repair Vessel	0	0	0	0	518	19	0	82	211	88	0	0
Offshore	403	612	1013	1474	1270	2397	3044	2268	1972	2418	1344	1372
Anchor Handling Tug Supply	343	369	754	716	532	1023	1228	628	783	1083	689	1076
Crew/Supply Vessel	0	0	0	0	0	0	94	0	0	149	0	0
Diving Support Vessel	0	0	0	0	0	0	48	0	0	45	0	0
Drilling Ship	0	0	0	0	0	0	71	0	60	141	0	0
FPSO, Oil	0	0	0	0	0	0	2	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	132	102	0	53
Offshore Support Vessel	0	0	0	0	0	34	98	0	10	120	218	17
Offshore Tug/Supply Ship	60	121	4	8	5	54	99	191	81	132	200	2
Platform Supply Ship	0	0	0	258	233	2	3	67	126	241	236	225
Standby Safety Vessel	0	122	256	491	499	1284	1401	1383	780	406	0	0

Appendix S23. Operational hours in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	3385	3818	4353	3487	3325	2877	3836	4671	4506	5066	3456	3814
Asphalt/Bitumen Tanker	0	0	0	0	16	0	0	0	0	0	0	0
Chemical Tanker	70	67	35	85	173	139	124	171	328	163	116	53
Chemical/Products Tanker	972	1254	1327	965	737	724	1258	1367	1015	1255	715	883
Crude Oil Tanker	264	324	475	92	122	95	87	145	181	197	296	362
Crude/Oil Products Tanker	349	412	574	363	380	157	401	251	373	375	248	355
LNG Tanker	0	133	41	0	0	0	0	4	10	0	22	23
Products Tanker	482	491	775	837	729	617	642	1230	1352	1567	912	701
Shuttle Tanker	1247	1138	1124	1133	1162	1022	1103	1229	1108	1275	1142	1436
Tanker (unspecified)	0	0	2	12	8	9	33	14	29	9	4	0
Vegetable Oil Tanker	0	0	0	0	0	112	187	261	111	225	0	0
Total	55748	54444	59275	69350	94566	103386	114327	114003	116021	126390	115595	108163

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Appendix S24. Distance travelled (nm) in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	21004	20201	25943	25469	31769	23834	32638	28350	30527	29158	26137	22469
Bulk Carrier	21004	18907	25331	24878	30301	22734	27487	22702	24316	25116	24881	22139
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	58	0	0	0	0
Cement Carrier	0	812	611	591	1468	814	1279	1333	1121	1103	585	330
Limestone Carrier	0	483	0	0	0	0	0	0	488	0	476	0
Ore/Oil Carrier	0	0	0	0	0	286	3872	4258	4602	2938	195	0
Dry Cargo/Passenger	50644	48835	68839	69454	78181	90470	114241	119870	105194	96263	66580	62971
Container Ship (Fully Cellular)	0	0	0	768	767	534	15	727	1261	721	0	544
General Cargo Ship	29220	29281	37822	42525	47602	48509	57453	68454	66404	60793	44984	39303
General Cargo Ship (with Ro-Ro facility)	1837	343	2588	2414	2534	1106	3977	1710	2462	1456	1322	603
General Cargo Ship, Self-discharging	36	0	106	562	0	388	64	352	362	867	1022	246
General Cargo/Passenger Ship	1943	1176	2249	1924	2266	2446	2210	2249	2038	1889	1552	1639
Heavy Load Carrier	0	0	0	0	0	0	665	1700	824	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	624	0	3277	1064	0	0
Landing Craft	0	0	0	0	30	0	0	0	0	0	0	0
Nuclear Fuel Carrier	0	0	32	0	346	0	0	0	0	373	136	37
Open Hatch Cargo Ship	0	0	0	0	548	0	1345	2836	274	0	0	0
Palletised Cargo Ship	0	0	0	41	0	0	254	1071	0	770	0	0
Passenger Ship	836	639	958	726	919	2079	2717	2118	677	406	0	0
Passenger/Cruise	3279	3390	7348	5822	4854	16148	22676	16878	5795	4723	1367	2706
Passenger/Ro-Ro Ship (Vehicles)	9078	7016	9471	9131	9092	9212	9631	10323	8809	9310	8895	9859
Refrigerated Cargo Ship	4415	6989	7990	5166	8108	8953	11728	10679	11401	13890	7000	8034
Ro-Ro Cargo Ship	0	0	275	376	1116	1095	882	773	1612	0	301	0
Fishing	173570	170812	179574	213631	285356	326033	341851	360388	400351	444748	428522	393692
Factory Stern Trawler	20640	26979	18250	11217	27545	35502	43744	50652	48033	59901	69860	64808
Fish Carrier	3144	6468	8264	8773	7020	6481	6894	9189	9068	10599	8734	6335
Fish Factory Ship	239	1093	2789	2182	1270	1830	1708	922	1360	1548	2519	1699
Fish Farm Support Vessel	0	0	0	0	0	0	0	16	132	0	181	0
Fishery Research Vessel	0	100	11	119	173	0	0	1455	269	347	135	0
Fishing Vessel	48677	43471	42582	47907	83100	86414	67814	72833	95022	102950	90206	63957
Live Fish Carrier (Well Boat)	1453	1884	1395	1278	1700	5661	3139	1793	1076	2577	3731	3255
Seal Catcher	4534	2907	3848	4313	4736	3930	5784	3054	4945	4463	3559	2102
Stern Trawler	92884	83453	96794	133860	156833	184861	209944	214942	235361	255967	242394	241249
Trawler	2000	4457	5642	3983	2978	1355	2822	5533	5085	6397	7203	10287

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Appendix S24. Distance travelled (nm) in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	9629	9104	14846	17089	38566	51019	83531	66459	46425	52053	22100	10829
Bunkering Tanker	19	6	7	13	48	228	170	342	97	7	12	0
Buoy & Lighthouse Tender	0	0	0	0	0	0	0	97	668	0	0	0
Cable Layer	1623	1287	1669	1297	0	0	0	0	0	58	207	0
Crane Vessel	0	0	72	114	46	0	758	793	710	104	0	0
Cutter Suction Dredger	0	0	0	0	0	0	855	0	0	811	0	0
Hopper, Motor	94	34	32	276	0	0	2098	1060	1478	3686	998	0
Icebreaker	170	2278	3543	1398	2888	8345	7095	5615	1488	3262	1899	1948
Icebreaker/Research	0	0	0	0	1086	291	402	1727	889	2445	0	0
Patrol Vessel	791	937	789	1685	1704	1385	1456	1874	837	1413	3383	2013
Pollution Control Vessel	0	0	189	112	305	720	226	317	0	0	140	0
Research Survey Vessel	2009	1193	2587	6736	21189	28553	43542	32553	20074	19180	5776	1115
Salvage Ship	36	0	284	0	0	0	0	0	0	0	263	719
Search & Rescue Vessel	48	268	495	513	509	768	474	237	107	27	243	43
Trailing Suction Hopper Dredger	0	0	0	0	0	0	7241	2350	2204	5692	239	0
Tug	4841	3103	5180	4943	7426	10571	18372	18639	15470	13490	8786	4992
Utility Vessel	0	0	0	0	0	0	841	0	144	1007	154	0
Work/Repair Vessel	0	0	0	0	3366	159	0	855	2259	870	0	0
Offshore	2741	3752	6595	10319	9224	14685	21019	14372	12460	16246	9447	9062
Anchor Handling Tug Supply	2382	2388	4850	6398	4617	6475	9089	4334	4961	6454	3559	6282
Crew/Supply Vessel	0	0	0	0	0	0	861	0	0	846	0	0
Diving Support Vessel	0	0	0	0	0	0	360	0	0	374	0	0
Drilling Ship	0	0	0	0	0	0	678	0	560	1138	0	0
FPSO, Oil	0	0	0	0	0	0	27	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	692	659	0	369
Offshore Support Vessel	0	0	0	0	0	367	1145	0	14	1217	2298	145
Offshore Tug/Supply Ship	359	462	39	39	48	447	583	1346	429	774	1169	14
Platform Supply Ship	0	0	0	1267	1475	7	23	443	988	2223	2421	2252
Standby Safety Vessel	0	903	1706	2614	3084	7389	8252	8249	4816	2560	0	0

Appendix S24. Distance travelled (nm) in the Barentsz Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	32637	34814	37183	37545	33327	28635	38940	47690	44810	44529	31560	34859
Asphalt/Bitumen Tanker	0	0	0	0	167	0	0	0	0	0	0	0
Chemical Tanker	761	742	271	811	1190	1286	1152	1494	3311	1485	1159	569
Chemical/Products Tanker	11081	12910	12393	11675	8538	8271	13614	14829	11446	12019	7162	8275
Crude Oil Tanker	1622	2300	2757	1099	1264	897	912	1460	1527	1454	2195	2222
Crude/Oil Products Tanker	3037	3031	4777	4092	3979	1534	4093	2976	3408	2378	2082	3326
LNG Tanker	0	846	272	0	0	0	0	47	98	0	171	169
Products Tanker	3996	3788	5532	7946	6301	4859	6145	12596	12708	13076	7406	5854
Shuttle Tanker	12141	11196	11171	11887	11836	10913	11486	12173	11418	12618	11372	14443
Tanker (unspecified)	0	0	11	35	52	63	206	70	220	71	15	0
Vegetable Oil Tanker	0	0	0	0	0	812	1332	2046	675	1428	0	0
Total	290225	287518	332980	373507	476424	534676	632220	637129	639768	682998	584346	533882

Appendix S25. Unique vessel counts for the Beaufort Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	2	0	1	2	0	0	0	5
General Cargo Ship	0	0	1	0	0	0	0	1
Landing Craft	2	0	0	0	0	0	0	2
Passenger/Cruise	0	0	0	2	0	0	0	2
Fishing	2	0	0	0	0	0	0	2
Fishing Vessel	2	0	0	0	0	0	0	2
Miscellaneous	18	8	4	2	0	0	0	32
Buoy Tender	1	2	0	0	0	0	0	3
Icebreaker	0	1	2	2	0	0	0	5
Icebreaker/Research	0	0	1	0	0	0	0	1
Pusher Tug	3	0	0	0	0	0	0	3
Research Survey Vessel	0	3	1	0	0	0	0	4
Tug	14	2	0	0	0	0	0	16
Offshore	0	3	0	0	0	0	0	3
Anchor Handling Tug Supply	0	3	0	0	0	0	0	3
Tankers	0	0	0	0	1	0	0	1
Chemical/Products Tanker	0	0	0	0	1	0	0	1
Total	22	11	5	4	1	0	0	43

Appendix S26. Transit counts for the Beaufort Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	26	0	3	4	0	0	0	33
General Cargo Ship	0	0	3	0	0	0	0	3
Landing Craft	26	0	0	0	0	0	0	26
Passenger/Cruise	0	0	0	4	0	0	0	4
Fishing	8	0	0	0	0	0	0	8
Fishing Vessel	8	0	0	0	0	0	0	8
Miscellaneous	363	44	10	7	0	0	0	424
Buoy Tender	13	15	0	0	0	0	0	28
Icebreaker	0	1	4	7	0	0	0	12
Icebreaker/Research	0	0	5	0	0	0	0	5
Pusher Tug	52	0	0	0	0	0	0	52
Research Survey Vessel	0	24	1	0	0	0	0	25
Tug	298	4	0	0	0	0	0	302
Offshore	0	15	0	0	0	0	0	15
Anchor Handling Tug Supply	0	15	0	0	0	0	0	15
Tankers	0	0	0	0	3	0	0	3
Chemical/Products Tanker	0	0	0	0	3	0	0	3
Total	397	59	13	11	3	0	0	483

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Appendix S27. Operational hours in the Beaufort Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

10000 24999	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	544	0	118	89	0	0	0	751
General Cargo Ship	0	0	118	0	0	0	0	118
Landing Craft	544	0	0	0	0	0	0	544
Passenger/Cruise	0	0	0	89	0	0	0	89
Fishing	271	0	0	0	0	0	0	271
Fishing Vessel	271	0	0	0	0	0	0	271
Miscellaneous	4986	922	438	231	0	0	0	6577
Buoy Tender	76	325	0	0	0	0	0	402
Icebreaker	0	8	143	231	0	0	0	381
Icebreaker/Research	0	0	290	0	0	0	0	290
Pusher Tug	821	0	0	0	0	0	0	821
Research Survey Vessel	0	493	5	0	0	0	0	498
Tug	4088	96	0	0	0	0	0	4184
Offshore	0	342	0	0	0	0	0	342
Anchor Handling Tug Supply	0	342	0	0	0	0	0	342
Tankers	0	0	0	0	93	0	0	93
Chemical/Products Tanker	0	0	0	0	93	0	0	93
Total	5801	1263	556	320	93	0	0	8034

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Appendix S28. Distance travelled (nm) in the Beaufort Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	3162	0	1132	1264	0	0	0	5557
General Cargo Ship	0	0	1132	0	0	0	0	1132
Landing Craft	3162	0	0	0	0	0	0	3162
Passenger/Cruise	0	0	0	1264	0	0	0	1264
Fishing	1295	0	0	0	0	0	0	1295
Fishing Vessel	1295	0	0	0	0	0	0	1295
Miscellaneous	26734	5409	3523	1808	0	0	0	37475
Buoy Tender	458	2767	0	0	0	0	0	3225
Icebreaker	0	73	1287	1808	0	0	0	3168
Icebreaker/Research	0	0	2228	0	0	0	0	2228
Pusher Tug	4528	0	0	0	0	0	0	4528
Research Survey Vessel	0	2066	8	0	0	0	0	2074
Tug	21748	504	0	0	0	0	0	22253
Offshore	0	1960	0	0	0	0	0	1960
Anchor Handling Tug Supply	0	1960	0	0	0	0	0	1960
Tankers	0	0	0	0	1160	0	0	1160
Chemical/Products Tanker	0	0	0	0	1160	0	0	1160
Total	31191	7369	4656	3072	1160	0	0	47447

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Appendix S29. Unique vessel counts for the Beaufort Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	0	0	0	1	5	0	0	0
General Cargo Ship	0	0	0	0	0	0	0	0	1	0	0	0
Landing Craft	0	0	0	0	0	0	0	1	2	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	0	2	0	0	0
Fishing	0	0	0	0	0	0	1	1	1	0	0	0
Fishing Vessel	0	0	0	0	0	0	1	1	1	0	0	0
Miscellaneous	0	0	0	0	0	1	7	24	25	12	0	0
Buoy Tender	0	0	0	0	0	0	1	1	3	2	0	0
Icebreaker	0	0	0	0	0	0	1	0	2	3	0	0
Icebreaker/Research	0	0	0	0	0	0	0	1	1	0	0	0
Pusher Tug	0	0	0	0	0	1	0	3	3	2	0	0
Research Survey Vessel	0	0	0	0	0	0	0	3	2	1	0	0
Tug	0	0	0	0	0	0	5	16	14	4	0	0
Offshore	0	0	0	0	0	0	1	3	3	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	1	3	3	0	0	0
Tankers	0	0	0	0	0	0	0	1	1	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	1	1	0	0	0
Total	0	0	0	0	0	1	9	30	35	12	0	0

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Appendix S30. Transit counts for the Beaufort Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	0	0	0	11	23	0	0	0
General Cargo Ship	0	0	0	0	0	0	0	0	3	0	0	0
Landing Craft	0	0	0	0	0	0	0	11	16	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	0	4	0	0	0
Fishing	0	0	0	0	0	0	1	6	1	0	0	0
Fishing Vessel	0	0	0	0	0	0	1	6	1	0	0	0
Miscellaneous	0	0	0	0	0	2	50	164	189	32	0	0
Buoy Tender	0	0	0	0	0	0	7	4	12	6	0	0
Icebreaker	0	0	0	0	0	0	2	0	3	7	0	0
Icebreaker/Research	0	0	0	0	0	0	0	2	4	0	0	0
Pusher Tug	0	0	0	0	0	2	0	20	23	9	0	0
Research Survey Vessel	0	0	0	0	0	0	0	15	10	1	0	0
Tug	0	0	0	0	0	0	41	123	137	9	0	0
Offshore	0	0	0	0	0	0	2	11	4	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	2	11	4	0	0	0
Tankers	0	0	0	0	0	0	0	2	1	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	2	1	0	0	0
Total	0	0	0	0	0	2	53	194	218	32	0	0

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Appendix S31. Operational hours in the Beaufort Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	0	0	0	309	442	0	0	0
General Cargo Ship	0	0	0	0	0	0	0	0	118	0	0	0
Landing Craft	0	0	0	0	0	0	0	309	235	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	0	89	0	0	0
Fishing	0	0	0	0	0	0	24	239	7	0	0	0
Fishing Vessel	0	0	0	0	0	0	24	239	7	0	0	0
Miscellaneous	0	0	0	0	0	12	575	2519	2848	624	0	0
Buoy Tender	0	0	0	0	0	0	76	40	231	54	0	0
Icebreaker	0	0	0	0	0	0	53	0	67	262	0	0
Icebreaker/Research	0	0	0	0	0	0	0	175	115	0	0	0
Pusher Tug	0	0	0	0	0	12	0	281	339	190	0	0
Research Survey Vessel	0	0	0	0	0	0	0	207	285	6	0	0
Tug	0	0	0	0	0	0	445	1816	1811	112	0	0
Offshore	0	0	0	0	0	0	18	247	76	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	18	247	76	0	0	0
Tankers	0	0	0	0	0	0	0	50	44	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	50	44	0	0	0
Total	0	0	0	0	0	12	617	3365	3417	624	0	0

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Appendix S32. Distance travelled (nm) in the Beaufort Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	0	0	0	1721	3836	0	0	0
General Cargo Ship	0	0	0	0	0	0	0	0	1132	0	0	0
Landing Craft	0	0	0	0	0	0	0	1721	1440	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	0	1264	0	0	0
Fishing	0	0	0	0	0	0	163	1096	36	0	0	0
Fishing Vessel	0	0	0	0	0	0	163	1096	36	0	0	0
Miscellaneous	0	0	0	0	0	43	3287	13123	16645	4377	0	0
Buoy Tender	0	0	0	0	0	0	690	406	1702	427	0	0
Icebreaker	0	0	0	0	0	0	245	0	549	2373	0	0
Icebreaker/Research	0	0	0	0	0	0	0	1028	1200	0	0	0
Pusher Tug	0	0	0	0	0	43	0	1420	2090	975	0	0
Research Survey Vessel	0	0	0	0	0	0	0	995	1043	36	0	0
Tug	0	0	0	0	0	0	2351	9273	10063	566	0	0
Offshore	0	0	0	0	0	0	39	1330	590	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	39	1330	590	0	0	0
Tankers	0	0	0	0	0	0	0	582	578	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	582	578	0	0	0
Total	0	0	0	0	0	43	3489	17853	21685	4377	0	0

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Appendix S33. Unique vessel counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	277	805	120	13	1215
Bulk Carrier	0	0	0	277	791	120	13	1201
Wood Chips Carrier	0	0	0	0	14	0	0	14
Dry Cargo/Passenger	17	62	76	78	185	519	70	1007
Container Ship (Fully Cellular)	0	0	2	12	90	409	70	583
General Cargo Ship	2	10	34	27	9	0	0	82
General Cargo Ship (with Ro-Ro facility)	0	0	2	3	0	0	0	5
General Cargo/Passenger Ship	1	0	0	0	0	0	0	1
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Landing Craft	8	0	0	0	0	0	0	8
Livestock Carrier	0	1	0	0	0	0	0	1
Open Hatch Cargo Ship	0	0	0	20	30	0	0	50
Palletised Cargo Ship	0	1	0	0	0	0	0	1
Passenger Ship	1	0	0	0	0	0	0	1
Passenger/Cruise	0	2	2	3	1	4	0	12
Passenger/Ro-Ro Ship (Vehicles)	0	1	0	0	0	0	0	1
Refrigerated Cargo Ship	5	47	34	12	0	0	0	98
Ro-Ro Cargo Ship	0	0	2	0	0	0	0	2
Vehicles Carrier	0	0	0	0	53	106	0	159
Fishing	323	138	20	4	1	0	0	486
Factory Stern Trawler	5	84	13	0	0	0	0	102
Fish Carrier	10	2	0	3	0	0	0	15
Fish Factory Ship	1	9	6	1	1	0	0	18
Fish Farm Support Vessel	1	0	0	0	0	0	0	1
Fishery Research Vessel	0	1	0	0	0	0	0	1
Fishing Vessel	230	20	0	0	0	0	0	250
Stern Trawler	67	22	0	0	0	0	0	89
Trawler	9	0	1	0	0	0	0	10

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Appendix S33. Unique vessel counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	69	17	4	4	0	0	0	94
Articulated Pusher Tug	2	0	0	0	0	0	0	2
Bunkering Tanker	1	0	0	0	0	0	0	1
Buoy Tender	0	4	0	0	0	0	0	4
Icebreaker	0	0	2	4	0	0	0	6
Icebreaker/Research	0	0	1	0	0	0	0	1
Pollution Control Vessel	0	1	0	0	0	0	0	1
Pusher Tug	1	0	0	0	0	0	0	1
Research Survey Vessel	4	7	1	0	0	0	0	12
Salvage Ship	1	0	0	0	0	0	0	1
Tug	59	5	0	0	0	0	0	64
Utility Vessel	1	0	0	0	0	0	0	1
Offshore	2	15	0	2	0	0	0	19
Anchor Handling Tug Supply	0	8	0	1	0	0	0	9
Crew/Supply Vessel	1	0	0	0	0	0	0	1
Drilling Ship	0	0	0	1	0	0	0	1
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Platform Supply Ship	1	6	0	0	0	0	0	7
Tankers	3	22	16	25	30	5	0	101
Asphalt/Bitumen Tanker	0	0	0	1	0	0	0	1
Chemical Tanker	2	3	1	3	0	0	0	9
Chemical/Products Tanker	1	9	8	20	18	0	0	56
Crude Oil Tanker	0	0	0	0	0	4	0	4
Crude/Oil Products Tanker	0	0	0	0	2	0	0	2
LPG Tanker	0	1	0	0	0	0	0	1
Products Tanker	0	9	7	1	10	1	0	28
Total	414	254	116	390	1021	644	83	2922

Appendix S34. Transit counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	827	1509	218	34	2588
Bulk Carrier	0	0	0	827	1476	218	34	2555
Wood Chips Carrier	0	0	0	0	33	0	0	33
Dry Cargo/Passenger	458	1027	893	422	469	1696	212	5177
Container Ship (Fully Cellular)	0	0	20	167	192	1514	212	2105
General Cargo Ship	62	232	326	74	26	0	0	720
General Cargo Ship (with Ro-Ro facility)	0	0	5	6	0	0	0	11
General Cargo/Passenger Ship	29	0	0	0	0	0	0	29
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Landing Craft	185	0	0	0	0	0	0	185
Livestock Carrier	0	9	0	0	0	0	0	9
Open Hatch Cargo Ship	0	0	0	68	113	0	0	181
Palletised Cargo Ship	0	2	0	0	0	0	0	2
Passenger Ship	1	0	0	0	0	0	0	1
Passenger/Cruise	0	54	37	33	1	9	0	134
Passenger/Ro-Ro Ship (Vehicles)	0	22	0	0	0	0	0	22
Refrigerated Cargo Ship	181	708	484	73	0	0	0	1446
Ro-Ro Cargo Ship	0	0	21	0	0	0	0	21
Vehicles Carrier	0	0	0	0	135	173	0	308
Fishing	13817	3426	447	48	20	0	0	17758
Factory Stern Trawler	187	1699	260	0	0	0	0	2146
Fish Carrier	70	45	0	26	0	0	0	141
Fish Factory Ship	79	270	178	22	20	0	0	569
Fish Farm Support Vessel	45	0	0	0	0	0	0	45
Fishery Research Vessel	0	22	0	0	0	0	0	22
Fishing Vessel	10256	833	0	0	0	0	0	11089
Stern Trawler	2847	557	0	0	0	0	0	3404
Trawler	333	0	9	0	0	0	0	342

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Appendix S34. Transit counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	1642	130	22	27	0	0	0	1821
Articulated Pusher Tug	17	0	0	0	0	0	0	17
Bunkering Tanker	8	0	0	0	0	0	0	8
Buoy Tender	0	19	0	0	0	0	0	19
Icebreaker	0	0	15	27	0	0	0	42
Icebreaker/Research	0	0	4	0	0	0	0	4
Pollution Control Vessel	0	14	0	0	0	0	0	14
Pusher Tug	15	0	0	0	0	0	0	15
Research Survey Vessel	102	64	3	0	0	0	0	169
Salvage Ship	38	0	0	0	0	0	0	38
Tug	1461	33	0	0	0	0	0	1494
Utility Vessel	1	0	0	0	0	0	0	1
Offshore	9	102	0	17	0	0	0	128
Anchor Handling Tug Supply	0	48	0	10	0	0	0	58
Crew/Supply Vessel	5	0	0	0	0	0	0	5
Drilling Ship	0	0	0	7	0	0	0	7
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Platform Supply Ship	4	53	0	0	0	0	0	57
Tankers	13	470	158	77	88	24	0	830
Asphalt/Bitumen Tanker	0	0	0	6	0	0	0	6
Chemical Tanker	5	72	7	5	0	0	0	89
Chemical/Products Tanker	8	263	98	64	43	0	0	476
Crude Oil Tanker	0	0	0	0	0	23	0	23
Crude/Oil Products Tanker	0	0	0	0	5	0	0	5
LPG Tanker	0	1	0	0	0	0	0	1
Products Tanker	0	134	53	2	40	1	0	230
Total	15939	5155	1520	1418	2086	1938	246	28302

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S35. Operational hours in the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	53541	100710	14074	2005	170330
Bulk Carrier	0	0	0	53541	98753	14074	2005	168373
Wood Chips Carrier	0	0	0	0	1957	0	0	1957
Dry Cargo/Passenger	9907	19901	21119	14606	24156	78421	10158	178269
Container Ship (Fully Cellular)	0	0	951	3323	8974	69981	10158	93387
General Cargo Ship	1154	3884	8892	4162	1523	0	0	19615
General Cargo Ship (with Ro-Ro facility)	0	0	306	475	0	0	0	780
General Cargo/Passenger Ship	493	0	0	0	0	0	0	493
Heavy Load Carrier	0	0	0	69	0	0	0	69
Heavy Load Carrier, semi submersible	0	0	0	0	172	0	0	172
Landing Craft	4210	0	0	0	0	0	0	4210
Livestock Carrier	0	229	0	0	0	0	0	229
Open Hatch Cargo Ship	0	0	0	4606	6296	0	0	10902
Palletised Cargo Ship	0	226	0	0	0	0	0	226
Passenger Ship	2	0	0	0	0	0	0	2
Passenger/Cruise	0	937	513	424	68	224	0	2166
Passenger/Ro-Ro Ship (Vehicles)	0	223	0	0	0	0	0	223
Refrigerated Cargo Ship	4048	14402	10229	1548	0	0	0	30228
Ro-Ro Cargo Ship	0	0	229	0	0	0	0	229
Vehicles Carrier	0	0	0	0	7123	8215	0	15338
Fishing	447137	165245	16689	4222	203	0	0	633496
Factory Stern Trawler	11323	84086	12929	0	0	0	0	108338
Fish Carrier	1659	550	0	542	0	0	0	2752
Fish Factory Ship	490	4211	1905	3680	203	0	0	10489
Fish Farm Support Vessel	385	0	0	0	0	0	0	385
Fishery Research Vessel	0	942	0	0	0	0	0	942
Fishing Vessel	322728	53567	0	0	0	0	0	376295
Stern Trawler	98214	21889	0	0	0	0	0	120104
Trawler	12338	0	1855	0	0	0	0	14193

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S35. Operational hours in the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	37704	4385	980	782	0	0	0	43851
Articulated Pusher Tug	593	0	0	0	0	0	0	593
Bunkering Tanker	163	0	0	0	0	0	0	163
Buoy Tender	0	718	0	0	0	0	0	718
Icebreaker	0	0	495	782	0	0	0	1277
Icebreaker/Research	0	0	232	0	0	0	0	232
Pollution Control Vessel	0	159	0	0	0	0	0	159
Pusher Tug	413	0	0	0	0	0	0	413
Research Survey Vessel	1207	1965	252	0	0	0	0	3424
Salvage Ship	580	0	0	0	0	0	0	580
Tug	34746	1543	0	0	0	0	0	36290
Utility Vessel	2	0	0	0	0	0	0	2
Offshore	33	5206	0	702	0	0	0	5942
Anchor Handling Tug Supply	0	2501	0	427	0	0	0	2928
Crew/Supply Vessel	20	0	0	0	0	0	0	20
Drilling Ship	0	0	0	276	0	0	0	276
Offshore Tug/Supply Ship	0	118	0	0	0	0	0	118
Platform Supply Ship	13	2587	0	0	0	0	0	2600
Tankers	262	9293	4651	3526	4588	538	0	22859
Asphalt/Bitumen Tanker	0	0	0	253	0	0	0	253
Chemical Tanker	129	1376	264	276	0	0	0	2044
Chemical/Products Tanker	133	5410	2743	2911	2368	0	0	13565
Crude Oil Tanker	0	0	0	0	0	515	0	515
Crude/Oil Products Tanker	0	0	0	0	343	0	0	343
LPG Tanker	0	2	0	0	0	0	0	2
Products Tanker	0	2506	1644	86	1877	24	0	6137
Total	495043	204032	43439	77379	129656	93033	12163	1054746

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S36. Distance travelled (nm) in the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	601727	1114219	155832	23796	1895574
Bulk Carrier	0	0	0	601727	1091662	155832	23796	1873017
Wood Chips Carrier	0	0	0	0	22557	0	0	22557
Dry Cargo/Passenger	70408	213852	238551	184951	343960	1276941	165112	2493775
Container Ship (Fully Cellular)	0	0	11419	49743	134905	1141843	165112	1503023
General Cargo Ship	11594	37133	96067	50909	18580	0	0	214283
General Cargo Ship (with Ro-Ro facility)	0	0	3710	5609	0	0	0	9320
General Cargo/Passenger Ship	4359	0	0	0	0	0	0	4359
Heavy Load Carrier	0	0	0	1021	0	0	0	1021
Heavy Load Carrier, semi submersible	0	0	0	0	2035	0	0	2035
Landing Craft	28604	0	0	0	0	0	0	28604
Livestock Carrier	0	1122	0	0	0	0	0	1122
Open Hatch Cargo Ship	0	0	0	53476	79705	0	0	133181
Palletised Cargo Ship	0	2127	0	0	0	0	0	2127
Passenger Ship	19	0	0	0	0	0	0	19
Passenger/Cruise	0	8439	5378	5164	942	3959	0	23881
Passenger/Ro-Ro Ship (Vehicles)	0	2462	0	0	0	0	0	2462
Refrigerated Cargo Ship	25832	162569	119723	19028	0	0	0	327152
Ro-Ro Cargo Ship	0	0	2253	0	0	0	0	2253
Vehicles Carrier	0	0	0	0	107792	131140	0	238932
Fishing	2162016	848962	101656	24688	1339	0	0	3138661
Factory Stern Trawler	51430	475963	75020	0	0	0	0	602414
Fish Carrier	13289	4651	0	4837	0	0	0	22777
Fish Factory Ship	3698	26568	14670	19851	1339	0	0	66126
Fish Farm Support Vessel	2819	0	0	0	0	0	0	2819
Fishery Research Vessel	0	6634	0	0	0	0	0	6634
Fishing Vessel	1537545	213054	0	0	0	0	0	1750599
Stern Trawler	489119	122091	0	0	0	0	0	611211
Trawler	64116	0	11965	0	0	0	0	76081

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S36. Distance travelled (nm) in the Bering Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Miscellaneous	237418	36323	10537	8974	0	0	0	293252
Articulated Pusher Tug	3731	0	0	0	0	0	0	3731
Bunkering Tanker	1251	0	0	0	0	0	0	1251
Buoy Tender	0	7550	0	0	0	0	0	7550
Icebreaker	0	0	5309	8974	0	0	0	14283
Icebreaker/Research	0	0	2417	0	0	0	0	2417
Pollution Control Vessel	0	1250	0	0	0	0	0	1250
Pusher Tug	2517	0	0	0	0	0	0	2517
Research Survey Vessel	8710	18043	2811	0	0	0	0	29563
Salvage Ship	3737	0	0	0	0	0	0	3737
Tug	217446	9480	0	0	0	0	0	226926
Utility Vessel	26	0	0	0	0	0	0	26
Offshore	349	43168	0	5329	0	0	0	48846
Anchor Handling Tug Supply	0	19402	0	3560	0	0	0	22962
Crew/Supply Vessel	207	0	0	0	0	0	0	207
Drilling Ship	0	0	0	1769	0	0	0	1769
Offshore Tug/Supply Ship	0	1044	0	0	0	0	0	1044
Platform Supply Ship	142	22723	0	0	0	0	0	22865
Tankers	2291	81363	46563	44953	55890	4957	0	236017
Asphalt/Bitumen Tanker	0	0	0	3112	0	0	0	3112
Chemical Tanker	1037	12930	2409	3635	0	0	0	20011
Chemical/Products Tanker	1254	47425	28072	37151	28224	0	0	142125
Crude Oil Tanker	0	0	0	0	0	4693	0	4693
Crude/Oil Products Tanker	0	0	0	0	4537	0	0	4537
LPG Tanker	0	21	0	0	0	0	0	21
Products Tanker	0	20987	16082	1056	23129	264	0	61518
Total	2472482	1223668	397306	870621	1515408	1437731	188908	8106124

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S37. Unique vessel counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	240	175	200	161	214	196	201	192	166	209	135	198
Bulk Carrier	236	173	198	159	209	196	199	191	166	207	134	195
Wood Chips Carrier	4	2	2	2	5	0	2	1	0	2	1	3
Dry Cargo/Passenger	287	202	274	187	307	233	266	263	234	268	162	172
Container Ship (Fully Cellular)	195	129	189	122	195	127	125	127	103	173	94	110
General Cargo Ship	12	10	11	12	21	22	29	33	28	27	18	10
General Cargo Ship (with Ro-Ro facility)	0	1	1	1	1	0	1	0	2	2	1	1
General Cargo/Passenger Ship	0	0	1	0	1	1	1	1	1	1	1	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	0	0	0
Landing Craft	0	1	0	1	3	4	4	5	5	5	2	1
Livestock Carrier	0	0	0	0	0	0	0	0	1	1	0	0
Open Hatch Cargo Ship	16	14	16	11	16	13	12	15	15	12	7	14
Palletised Cargo Ship	0	0	0	0	0	0	0	1	1	1	0	0
Passenger Ship	0	0	0	0	0	0	1	0	0	0	0	0
Passenger/Cruise	0	0	0	0	4	3	4	3	6	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	1	1	1	1	1	0	0	0
Refrigerated Cargo Ship	18	22	23	24	29	40	67	54	49	33	24	17
Ro-Ro Cargo Ship	0	0	1	1	0	1	0	0	0	1	1	0
Vehicles Carrier	46	25	32	15	36	21	21	23	19	12	14	19
Fishing	224	214	217	187	169	336	345	232	215	199	161	123
Factory Stern Trawler	35	26	26	15	41	58	70	58	49	32	32	22
Fish Carrier	2	2	1	3	1	7	5	5	3	1	1	3
Fish Factory Ship	7	5	4	8	6	13	14	6	6	6	5	3
Fish Farm Support Vessel	1	1	1	0	1	1	1	1	1	0	0	0
Fishery Research Vessel	0	0	0	1	1	1	1	0	1	1	0	0
Fishing Vessel	128	132	137	123	90	185	183	104	105	125	101	78
Stern Trawler	44	40	40	30	27	68	67	54	45	29	17	14
Trawler	7	8	8	7	2	3	4	4	5	5	5	3

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S37. Unique vessel counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	8	12	12	17	26	50	63	41	50	47	13	8
Articulated Pusher Tug	0	0	0	0	0	1	1	0	0	0	1	0
Bunkering Tanker	0	0	0	1	0	0	0	0	0	1	1	1
Buoy Tender	0	0	0	0	1	1	2	1	1	2	0	0
Icebreaker	0	0	0	1	0	3	5	2	0	2	1	1
Icebreaker/Research	0	0	0	0	0	0	1	1	1	0	0	0
Pollution Control Vessel	1	1	1	0	0	0	0	0	1	1	0	1
Pusher Tug	0	0	0	0	0	1	1	0	1	1	0	0
Research Survey Vessel	0	0	1	1	1	5	6	7	6	3	2	0
Salvage Ship	1	1	1	1	1	1	1	1	1	0	0	1
Tug	6	9	9	13	23	38	46	29	39	37	8	4
Utility Vessel	0	1	0	0	0	0	0	0	0	0	0	0
Offshore	0	0	0	0	2	5	13	8	9	13	3	0
Anchor Handling Tug Supply	0	0	0	0	1	3	6	5	4	5	3	0
Crew/Supply Vessel	0	0	0	0	0	0	0	0	1	1	0	0
Drilling Ship	0	0	0	0	0	0	1	0	0	1	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	0	0	0
Platform Supply Ship	0	0	0	0	1	2	6	3	3	6	0	0
Tankers	12	11	16	15	21	28	31	27	28	24	14	15
Asphalt/Bitumen Tanker	0	0	1	1	0	0	0	0	1	0	0	0
Chemical Tanker	0	0	1	0	0	1	2	4	5	4	1	1
Chemical/Products Tanker	10	8	10	6	14	18	15	16	14	10	7	8
Crude Oil Tanker	0	0	0	1	0	0	1	0	2	2	0	0
Crude/Oil Products Tanker	0	0	1	1	2	0	0	0	0	0	0	0
LPG Tanker	0	0	0	0	0	0	0	0	0	0	1	1
Products Tanker	2	3	3	6	5	9	13	7	6	8	5	5
Total	771	614	719	567	739	848	919	763	702	760	488	516

Appendix S38. Transit counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	284	197	232	205	244	230	257	267	207	249	172	259
Bulk Carrier	280	194	228	201	237	230	254	266	207	247	171	255
Wood Chips Carrier	4	3	4	4	7	0	3	1	0	2	1	4
Dry Cargo/Passenger	420	314	406	328	492	494	672	611	560	526	322	280
Container Ship (Fully Cellular)	235	158	230	169	241	173	197	197	145	217	125	150
General Cargo Ship	34	39	30	50	34	64	107	106	94	99	59	21
General Cargo Ship (with Ro-Ro facility)	0	1	2	1	1	0	1	0	2	2	1	1
General Cargo/Passenger Ship	0	0	1	0	2	6	2	5	7	2	4	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	0	0	0
Landing Craft	0	3	0	2	26	43	27	21	25	37	7	2
Livestock Carrier	0	0	0	0	0	0	0	0	6	3	0	0
Open Hatch Cargo Ship	20	17	21	18	19	14	16	21	18	13	9	20
Palletised Cargo Ship	0	0	0	0	0	0	0	1	1	1	0	0
Passenger Ship	0	0	0	0	0	0	1	0	0	0	0	0
Passenger/Cruise	0	0	0	0	9	11	23	44	50	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	2	4	5	7	4	0	0	0
Refrigerated Cargo Ship	78	70	84	69	114	154	263	183	185	126	98	64
Ro-Ro Cargo Ship	0	0	1	1	0	2	0	0	0	12	5	0
Vehicles Carrier	53	26	37	18	44	23	30	26	20	14	14	22
Fishing	1218	1817	1831	949	935	2284	3621	1916	1370	1207	819	596
Factory Stern Trawler	121	186	192	76	135	248	423	329	236	143	118	77
Fish Carrier	6	8	3	13	7	18	25	23	7	7	7	20
Fish Factory Ship	24	35	27	56	59	58	109	44	76	44	29	21
Fish Farm Support Vessel	1	13	8	0	3	11	6	3	3	0	0	0
Fishery Research Vessel	0	0	0	3	7	4	1	0	6	3	0	0
Fishing Vessel	836	1085	1144	626	566	1405	2348	1010	730	842	565	391
Stern Trawler	198	422	388	145	145	523	688	484	293	132	74	81
Trawler	32	68	69	30	13	17	21	23	19	36	26	6

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S38. Transit counts for the Bering Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	39	53	79	96	166	303	369	241	258	196	44	30
Articulated Pusher Tug	0	0	0	0	0	7	7	0	0	0	4	0
Bunkering Tanker	0	0	0	2	0	0	0	0	0	2	2	2
Buoy Tender	0	0	0	0	5	1	8	1	3	4	0	0
Icebreaker	0	0	0	8	0	5	15	8	0	4	1	2
Icebreaker/Research	0	0	0	0	0	0	1	1	2	0	0	0
Pollution Control Vessel	1	1	1	0	0	0	0	0	3	1	0	7
Pusher Tug	0	0	0	0	0	9	3	0	1	2	0	0
Research Survey Vessel	0	0	13	4	4	28	40	27	36	15	4	0
Salvage Ship	2	1	4	1	4	5	1	15	4	0	0	1
Tug	36	50	61	81	153	248	294	189	209	168	33	18
Utility Vessel	0	1	0	0	0	0	0	0	0	0	0	0
Offshore	0	0	0	0	5	11	38	23	23	34	3	0
Anchor Handling Tug Supply	0	0	0	0	1	8	18	11	9	14	3	0
Crew/Supply Vessel	0	0	0	0	0	0	0	0	4	1	0	0
Drilling Ship	0	0	0	0	0	0	3	0	0	4	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	0	0	0
Platform Supply Ship	0	0	0	0	4	3	17	12	9	15	0	0
Tankers	18	17	21	31	64	106	160	105	124	108	58	45
Asphalt/Bitumen Tanker	0	0	1	3	0	0	0	0	2	0	0	0
Chemical Tanker	0	0	1	0	0	8	19	10	27	22	1	3
Chemical/Products Tanker	16	9	13	9	47	55	87	69	67	47	41	28
Crude Oil Tanker	0	0	0	2	0	0	4	0	3	15	0	0
Crude/Oil Products Tanker	0	0	1	2	3	0	0	0	0	0	0	0
LPG Tanker	0	0	0	0	0	0	0	0	0	0	1	1
Products Tanker	2	8	5	15	14	43	50	26	25	24	15	13
Total	1979	2398	2569	1609	1906	3428	5118	3165	2545	2320	1418	1210

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S39. Operational hours in the Bering Sea by vessel type (vessel type class totals provided in bold) and month

Jun	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	17522	12768	14522	11071	15728	13635	14720	13986	11815	16550	11238	16772
Bulk Carrier	17230	12572	14320	10946	15211	13635	14589	13904	11815	16398	11166	16585
Wood Chips Carrier	292	196	202	125	517	0	131	82	0	152	72	187
Dry Cargo/Passenger	16331	11014	15329	11190	19496	14648	17677	16845	16115	17594	10358	11672
Container Ship (Fully Cellular)	9952	6537	10231	6204	11166	7005	7306	7005	6062	9904	5255	6762
General Cargo Ship	818	548	660	1101	1367	1565	2788	2828	2799	2699	1694	749
General Cargo Ship (with Ro-Ro facility)	0	66	82	89	72	0	68	0	149	163	5	85
General Cargo/Passenger Ship	0	0	2	0	77	183	39	59	117	5	11	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	69	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	172	0	0	0
Landing Craft	0	6	0	8	711	742	519	624	521	930	114	35
Livestock Carrier	0	0	0	0	0	0	0	0	198	31	0	0
Open Hatch Cargo Ship	1121	868	1032	862	1087	691	866	868	890	770	638	1210
Palletised Cargo Ship	0	0	0	0	0	0	0	115	100	12	0	0
Passenger Ship	0	0	0	0	0	0	2	0	0	0	0	0
Passenger/Cruise	0	0	0	0	294	237	323	650	663	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	19	45	44	66	49	0	0	0
Refrigerated Cargo Ship	1696	1698	1660	2126	2756	3049	4565	3448	3369	2356	1745	1760
Ro-Ro Cargo Ship	0	0	27	25	0	52	0	0	0	84	41	0
Vehicles Carrier	2744	1292	1637	776	1947	1079	1157	1183	959	641	854	1070
Fishing	44141	61113	76250	40209	40718	67556	77358	58110	54304	49464	41002	23273
Factory Stern Trawler	4159	6279	12156	4773	10994	14879	12741	11122	12017	9841	6815	2562
Fish Carrier	134	137	77	415	86	306	616	509	146	36	74	217
Fish Factory Ship	748	828	737	620	641	1186	1644	1071	1835	651	338	189
Fish Farm Support Vessel	7	59	58	0	29	99	75	30	28	0	0	0
Fishery Research Vessel	0	0	0	74	204	71	43	0	479	70	0	0
Fishing Vessel	31771	37652	45898	28462	21516	32198	43778	30406	27320	31122	28882	17290
Stern Trawler	6649	14327	14221	5199	6717	17879	17523	13829	11429	5823	3633	2874
Trawler	672	1832	3103	665	530	938	938	1143	1050	1922	1260	140

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Appendix S39. Operational hours in the Bering Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Jun	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	447	544	1079	2024	3785	6666	9984	5464	6171	6331	905	451
Articulated Pusher Tug	0	0	0	0	0	280	283	0	0	0	30	0
Bunkering Tanker	0	0	0	3	0	0	0	0	0	5	80	74
Buoy Tender	0	0	0	0	113	29	432	7	23	114	0	0
Icebreaker	0	0	0	180	0	101	461	214	0	211	75	34
Icebreaker/Research	0	0	0	0	0	0	103	17	113	0	0	0
Pollution Control Vessel	3	2	13	0	0	0	0	0	27	12	0	102
Pusher Tug	0	0	0	0	0	204	64	0	25	119	0	0
Research Survey Vessel	0	0	170	154	98	488	793	481	701	334	206	0
Salvage Ship	6	2	154	3	29	152	16	136	58	0	0	23
Tug	437	538	742	1683	3546	5411	7832	4610	5225	5536	514	217
Utility Vessel	0	2	0	0	0	0	0	0	0	0	0	0
Offshore	0	0	0	0	82	100	1351	1246	1436	1454	273	0
Anchor Handling Tug Supply	0	0	0	0	69	67	763	538	613	604	273	0
Crew/Supply Vessel	0	0	0	0	0	0	0	0	19	2	0	0
Drilling Ship	0	0	0	0	0	0	117	0	0	159	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	118	0	0	0
Platform Supply Ship	0	0	0	0	13	32	471	707	686	690	0	0
Tankers	755	751	895	977	2071	2890	3763	2573	3225	2559	1245	1154
Asphalt/Bitumen Tanker	0	0	70	42	0	0	0	0	141	0	0	0
Chemical Tanker	0	0	70	0	0	132	285	384	577	508	22	65
Chemical/Products Tanker	704	560	549	456	1408	1632	2079	1702	1730	1099	811	836
Crude Oil Tanker	0	0	0	67	0	0	97	0	112	239	0	0
Crude/Oil Products Tanker	0	0	70	82	191	0	0	0	0	0	0	0
LPG Tanker	0	0	0	0	0	0	0	0	0	0	1	0
Products Tanker	52	190	136	330	472	1126	1302	487	665	713	411	252
Total	79195	86190	108076	65471	81880	105495	124881	98271	93192	93953	65021	53322

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Appendix S40. Distance travelled (nm) in the Bering Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	189148	139461	159295	118835	178539	162542	174165	166174	140793	184266	110059	172298
Bulk Carrier	185570	137689	157367	117259	172220	162542	172431	165267	140793	182714	109182	169983
Wood Chips Carrier	3578	1771	1927	1576	6319	0	1734	907	0	1552	878	2314
Dry Cargo/Passenger	236080	159291	224253	155455	279677	202337	241870	234353	218254	238788	139911	163505
Container Ship (Fully Cellular)	158967	104886	159166	98996	179853	113723	119394	118226	100358	154870	84377	110206
General Cargo Ship	9188	5954	7366	11191	15645	17313	31002	31060	30850	28548	17999	8167
General Cargo Ship (with Ro-Ro facility)	0	928	984	888	889	0	863	0	1811	1944	66	946
General Cargo/Passenger Ship	0	0	17	0	702	1622	381	522	992	40	82	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	1021	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2035	0	0	0
Landing Craft	0	47	0	49	4595	4845	3683	4445	3628	6234	750	327
Livestock Carrier	0	0	0	0	0	0	0	0	879	244	0	0
Open Hatch Cargo Ship	13531	10516	12641	9674	13817	8652	10639	11104	11951	9673	6700	14282
Palletised Cargo Ship	0	0	0	0	0	0	0	1073	927	127	0	0
Passenger Ship	0	0	0	0	0	0	19	0	0	0	0	0
Passenger/Cruise	0	0	0	0	3801	1956	3321	7113	7691	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	214	502	483	736	527	0	0	0
Refrigerated Cargo Ship	14211	16838	17230	22568	29105	35526	53833	40818	40255	26361	16986	13421
Ro-Ro Cargo Ship	0	0	281	281	0	563	0	0	0	850	279	0
Vehicles Carrier	40183	20121	26568	11808	31057	17635	18250	19257	15327	9897	12672	16157
Fishing	209264	307139	368534	193312	203058	356197	409892	295626	266789	236164	186900	105787
Factory Stern Trawler	24085	34410	61209	26167	60901	79283	75528	65902	68333	52982	36765	16849
Fish Carrier	1002	956	606	3153	781	2636	4852	4611	1564	409	800	1407
Fish Factory Ship	4206	4414	4035	4963	5093	7862	10962	6777	10054	4105	2430	1224
Fish Farm Support Vessel	79	432	366	0	223	686	532	270	231	0	0	0
Fishery Research Vessel	0	0	0	466	1336	441	449	0	3503	438	0	0
Fishing Vessel	138614	173701	209604	130096	103085	169305	221937	141250	122553	142104	124524	73825
Stern Trawler	37219	83254	77300	24868	28880	90461	90201	69591	54366	26929	16686	11455
Trawler	4058	9972	15413	3598	2758	5523	5430	7225	6185	9197	5694	1027

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Appendix S40. Distance travelled (nm) in the Bering Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Miscellaneous	2891	3435	6466	10877	22983	46514	69468	36565	40614	43042	7311	3086
Articulated Pusher Tug	0	0	0	0	0	1683	1780	0	0	0	268	0
Bunkering Tanker	0	0	0	31	0	0	0	0	0	40	601	579
Buoy Tender	0	0	0	0	1028	398	4602	68	255	1199	0	0
Icebreaker	0	0	0	1327	0	1204	5475	2159	0	2501	1164	453
Icebreaker/Research	0	0	0	0	0	0	1016	174	1227	0	0	0
Pollution Control Vessel	11	9	116	0	0	0	0	0	236	120	0	760
Pusher Tug	0	0	0	0	0	1253	483	0	159	623	0	0
Research Survey Vessel	0	0	878	988	705	4519	6939	4786	5678	2895	2175	0
Salvage Ship	36	9	1064	13	266	1079	83	805	261	0	0	123
Tug	2845	3391	4408	8519	20984	36378	49091	28573	32798	35665	3104	1171
Utility Vessel	0	26	0	0	0	0	0	0	0	0	0	0
Offshore	0	0	0	0	1076	630	10661	10409	12019	11555	2495	0
Anchor Handling Tug Supply	0	0	0	0	934	408	5504	4368	4704	4548	2495	0
Crew/Supply Vessel	0	0	0	0	0	0	0	0	191	16	0	0
Drilling Ship	0	0	0	0	0	0	866	0	0	903	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1044	0	0	0
Platform Supply Ship	0	0	0	0	142	222	4291	6041	6081	6088	0	0
Tankers	8514	8507	10754	11072	22033	29642	38619	27348	33186	24774	10748	10821
Asphalt/Bitumen Tanker	0	0	880	470	0	0	0	0	1762	0	0	0
Chemical Tanker	0	0	941	0	0	1415	2649	3742	5736	4781	237	510
Chemical/Products Tanker	7969	6530	6629	5232	15089	17027	20971	18821	17884	10921	7205	7847
Crude Oil Tanker	0	0	0	707	0	0	905	0	1121	1961	0	0
Crude/Oil Products Tanker	0	0	878	1137	2522	0	0	0	0	0	0	0
LPG Tanker	0	0	0	0	0	0	0	0	0	0	16	5
Products Tanker	546	1977	1427	3525	4421	11200	14095	4785	6683	7111	3290	2459
Total	645898	617833	769301	489552	707365	797862	944989	770978	713135	738588	457425	455496

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Appendix S41. Unique vessel counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	1	24	0	0	25
Bulk Carrier	0	0	0	1	24	0	0	25
Dry Cargo/Passenger	4	7	19	11	2	0	0	43
Container Ship (Fully Cellular)	0	0	1	0	0	0	0	1
General Cargo Ship	0	3	17	6	0	0	0	26
General Cargo Ship (with Ro-Ro facility)	0	0	0	1	0	0	0	1
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Landing Craft	4	0	0	0	0	0	0	4
Palletised Cargo Ship	0	1	0	0	0	0	0	1
Passenger/Cruise	0	2	1	3	0	0	0	6
Refrigerated Cargo Ship	0	1	0	0	0	0	0	1
Fishing	4	2	0	0	0	0	0	6
Factory Stern Trawler	0	1	0	0	0	0	0	1
Fishing Vessel	4	0	0	0	0	0	0	4
Stern Trawler	0	1	0	0	0	0	0	1
Miscellaneous	31	12	5	4	0	0	0	52
Articulated Pusher Tug	1	0	0	0	0	0	0	1
Buoy Tender	0	2	0	0	0	0	0	2
Icebreaker	0	0	2	4	0	0	0	6
Icebreaker/Research	0	0	1	0	0	0	0	1
Pusher Tug	1	0	0	0	0	0	0	1
Research Survey Vessel	0	6	2	0	0	0	0	8
Tug	29	4	0	0	0	0	0	33
Offshore	0	15	0	2	0	0	0	17
Anchor Handling Tug Supply	0	8	0	1	0	0	0	9
Drilling Ship	0	0	0	1	0	0	0	1
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Platform Supply Ship	0	6	0	0	0	0	0	6

Appendix S41. Unique vessel counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	2	5	3	5	1	0	16
Chemical Tanker	0	1	0	0	0	0	0	1
Chemical/Products Tanker	0	1	2	1	2	0	0	6
Crude Oil Tanker	0	0	0	0	0	1	0	1
Crude/Oil Products Tanker	0	0	0	1	0	0	0	1
Products Tanker	0	0	3	1	3	0	0	7
Total	39	38	29	21	31	1	0	159

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Appendix S42. Transit counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	2	53	0	0	55
Bulk Carrier	0	0	0	2	53	0	0	55
Dry Cargo/Passenger	60	51	122	26	2	0	0	261
Container Ship (Fully Cellular)	0	0	2	0	0	0	0	2
General Cargo Ship	0	16	119	13	0	0	0	148
General Cargo Ship (with Ro-Ro facility)	0	0	0	3	0	0	0	3
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Landing Craft	60	0	0	0	0	0	0	60
Palletised Cargo Ship	0	2	0	0	0	0	0	2
Passenger/Cruise	0	31	1	9	0	0	0	41
Refrigerated Cargo Ship	0	2	0	0	0	0	0	2
Fishing	29	3	0	0	0	0	0	32
Factory Stern Trawler	0	1	0	0	0	0	0	1
Fishing Vessel	29	0	0	0	0	0	0	29
Stern Trawler	0	2	0	0	0	0	0	2
Miscellaneous	565	142	69	53	0	0	0	829
Articulated Pusher Tug	3	0	0	0	0	0	0	3
Buoy Tender	0	7	0	0	0	0	0	7
Icebreaker	0	0	58	53	0	0	0	111
Icebreaker/Research	0	0	3	0	0	0	0	3
Pusher Tug	9	0	0	0	0	0	0	9
Research Survey Vessel	0	51	8	0	0	0	0	59
Tug	553	84	0	0	0	0	0	637
Offshore	0	364	0	49	0	0	0	413
Anchor Handling Tug Supply	0	116	0	45	0	0	0	161
Drilling Ship	0	0	0	4	0	0	0	4
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Platform Supply Ship	0	247	0	0	0	0	0	247

Appendix S42. Transit counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	11	21	7	17	8	0	64
Chemical Tanker	0	9	0	0	0	0	0	9
Chemical/Products Tanker	0	2	13	5	4	0	0	24
Crude Oil Tanker	0	0	0	0	0	8	0	8
Crude/Oil Products Tanker	0	0	0	1	0	0	0	1
Products Tanker	0	0	8	1	13	0	0	22
Total	654	571	212	137	72	8	0	1654

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Appendix S43. Operational hours in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	18	543	0	0	561
Bulk Carrier	0	0	0	18	543	0	0	561
Dry Cargo/Passenger	845	1389	2131	466	82	0	0	4912
Container Ship (Fully Cellular)	0	0	66	0	0	0	0	66
General Cargo Ship	0	482	2038	249	0	0	0	2769
General Cargo Ship (with Ro-Ro facility)	0	0	0	61	0	0	0	61
Heavy Load Carrier	0	0	0	27	0	0	0	27
Heavy Load Carrier, semi submersible	0	0	0	0	82	0	0	82
Landing Craft	845	0	0	0	0	0	0	845
Palletised Cargo Ship	0	77	0	0	0	0	0	77
Passenger/Cruise	0	779	28	129	0	0	0	935
Refrigerated Cargo Ship	0	51	0	0	0	0	0	51
Fishing	1456	137	0	0	0	0	0	1593
Factory Stern Trawler	0	41	0	0	0	0	0	41
Fishing Vessel	1456	0	0	0	0	0	0	1456
Stern Trawler	0	96	0	0	0	0	0	96
Miscellaneous	12280	4718	1263	876	0	0	0	19136
Articulated Pusher Tug	47	0	0	0	0	0	0	47
Buoy Tender	0	259	0	0	0	0	0	259
Icebreaker	0	0	936	876	0	0	0	1812
Icebreaker/Research	0	0	68	0	0	0	0	68
Pusher Tug	243	0	0	0	0	0	0	243
Research Survey Vessel	0	2121	259	0	0	0	0	2380
Tug	11990	2338	0	0	0	0	0	14328
Offshore	0	7864	0	1050	0	0	0	8914
Anchor Handling Tug Supply	0	2872	0	895	0	0	0	3766
Drilling Ship	0	0	0	155	0	0	0	155
Offshore Tug/Supply Ship	0	41	0	0	0	0	0	41
Platform Supply Ship	0	4952	0	0	0	0	0	4952

Appendix S43. Operational hours in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	233	570	76	243	297	0	1419
Chemical Tanker	0	164	0	0	0	0	0	164
Chemical/Products Tanker	0	69	384	35	75	0	0	563
Crude Oil Tanker	0	0	0	0	0	297	0	297
Crude/Oil Products Tanker	0	0	0	11	0	0	0	11
Products Tanker	0	0	186	30	169	0	0	384
Total	14580	14341	3964	2485	868	297	0	36536

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Appendix S44. Distance travelled (nm) in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	211	5776	0	0	5987
Bulk Carrier	0	0	0	211	5776	0	0	5987
Dry Cargo/Passenger	5390	11520	21075	5831	747	0	0	44563
Container Ship (Fully Cellular)	0	0	657	0	0	0	0	657
General Cargo Ship	0	4234	20055	3050	0	0	0	27339
General Cargo Ship (with Ro-Ro facility)	0	0	0	748	0	0	0	748
Heavy Load Carrier	0	0	0	369	0	0	0	369
Heavy Load Carrier, semi submersible	0	0	0	0	747	0	0	747
Landing Craft	5390	0	0	0	0	0	0	5390
Palletised Cargo Ship	0	772	0	0	0	0	0	772
Passenger/Cruise	0	5775	364	1664	0	0	0	7802
Refrigerated Cargo Ship	0	738	0	0	0	0	0	738
Fishing	8712	1116	0	0	0	0	0	9827
Factory Stern Trawler	0	367	0	0	0	0	0	367
Fishing Vessel	8712	0	0	0	0	0	0	8712
Stern Trawler	0	749	0	0	0	0	0	749
Miscellaneous	48689	23678	8378	7068	0	0	0	87814
Articulated Pusher Tug	309	0	0	0	0	0	0	309
Buoy Tender	0	2207	0	0	0	0	0	2207
Icebreaker	0	0	5838	7068	0	0	0	12906
Icebreaker/Research	0	0	633	0	0	0	0	633
Pusher Tug	1646	0	0	0	0	0	0	1646
Research Survey Vessel	0	14932	1907	0	0	0	0	16839
Tug	46734	6540	0	0	0	0	0	53274
Offshore	0	36261	0	4132	0	0	0	40393
Anchor Handling Tug Supply	0	15580	0	3278	0	0	0	18858
Drilling Ship	0	0	0	853	0	0	0	853
Offshore Tug/Supply Ship	0	364	0	0	0	0	0	364
Platform Supply Ship	0	20317	0	0	0	0	0	20317

Appendix S44. Distance travelled (nm) in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	2489	5580	869	2292	1342	0	12571
Chemical Tanker	0	1769	0	0	0	0	0	1769
Chemical/Products Tanker	0	720	3685	395	973	0	0	5772
Crude Oil Tanker	0	0	0	0	0	1342	0	1342
Crude/Oil Products Tanker	0	0	0	109	0	0	0	109
Products Tanker	0	0	1895	366	1319	0	0	3580
Total	62791	75063	35033	18111	8815	1342	0	201155

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Appendix S45. Unique vessel counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	4	10	7	7	6	0	0
Bulk Carrier	0	0	0	0	0	4	10	7	7	6	0	0
Dry Cargo/Passenger	0	0	0	2	3	4	11	22	25	16	6	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	1	1	0	0	1	0
General Cargo Ship	0	0	0	2	2	2	7	14	13	14	5	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	1	1	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	0	0	0
Landing Craft	0	0	0	0	0	0	2	3	4	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	1	0	0
Passenger/Cruise	0	0	0	0	1	2	1	2	3	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	0	0	0	0	0	0	2	3	3	2	1	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	1	0	0
Fishing Vessel	0	0	0	0	0	0	2	2	2	1	1	0
Stern Trawler	0	0	0	0	0	0	0	1	1	0	0	0
Miscellaneous	0	0	0	1	1	10	34	38	42	20	4	1
Articulated Pusher Tug	0	0	0	0	0	1	0	0	0	0	0	0
Buoy Tender	0	0	0	0	0	0	1	0	1	1	0	0
Icebreaker	0	0	0	1	1	1	4	3	4	4	2	1
Icebreaker/Research	0	0	0	0	0	0	0	1	1	0	0	0
Pusher Tug	0	0	0	0	0	0	1	1	1	0	0	0
Research Survey Vessel	0	0	0	0	0	2	3	5	7	4	2	0
Tug	0	0	0	0	0	6	25	28	28	11	0	0
Offshore	0	0	0	0	0	0	10	14	14	12	2	0
Anchor Handling Tug Supply	0	0	0	0	0	0	4	7	7	5	2	0
Drilling Ship	0	0	0	0	0	0	1	1	0	1	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	0	0	0
Platform Supply Ship	0	0	0	0	0	0	5	6	6	6	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S45. Unique vessel counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	0	0	0	0	0	0	7	9	9	5	0	2
Chemical Tanker	0	0	0	0	0	0	1	1	1	1	0	0
Chemical/Products Tanker	0	0	0	0	0	0	2	4	4	0	0	1
Crude Oil Tanker	0	0	0	0	0	0	1	1	1	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	0	0	1	0	0	0
Products Tanker	0	0	0	0	0	0	3	3	2	4	0	1
Total	0	0	0	3	4	18	74	93	100	61	13	3

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S46. Transit counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	5	16	13	12	9	0	0
Bulk Carrier	0	0	0	0	0	5	16	13	12	9	0	0
Dry Cargo/Passenger	0	0	0	2	20	17	48	76	64	33	12	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	1	1	0	0	1	0
General Cargo Ship	0	0	0	2	18	11	22	31	29	31	11	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	2	1	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	0	0	0
Landing Craft	0	0	0	0	0	0	18	20	24	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	1	0	0
Passenger/Cruise	0	0	0	0	2	6	7	22	5	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	0	0	0	0	0	0	8	7	10	4	4	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	1	0	0
Fishing Vessel	0	0	0	0	0	0	8	6	9	3	4	0
Stern Trawler	0	0	0	0	0	0	0	1	1	0	0	0
Miscellaneous	0	0	0	1	18	58	190	283	205	101	4	6
Articulated Pusher Tug	0	0	0	0	0	3	0	0	0	0	0	0
Buoy Tender	0	0	0	0	0	0	2	0	3	2	0	0
Icebreaker	0	0	0	1	18	12	20	21	16	15	2	6
Icebreaker/Research	0	0	0	0	0	0	0	2	1	0	0	0
Pusher Tug	0	0	0	0	0	0	5	2	3	0	0	0
Research Survey Vessel	0	0	0	0	0	7	14	25	14	7	2	0
Tug	0	0	0	0	0	36	149	233	168	77	0	0
Offshore	0	0	0	0	0	0	78	140	145	57	2	0
Anchor Handling Tug Supply	0	0	0	0	0	0	34	65	52	13	2	0
Drilling Ship	0	0	0	0	0	0	1	2	0	1	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	0	0	0
Platform Supply Ship	0	0	0	0	0	0	43	73	92	43	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S46. Transit counts for the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Jun	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	0	0	0	0	0	0	16	21	14	5	0	8
Chemical Tanker	0	0	0	0	0	0	6	1	1	1	0	0
Chemical/Products Tanker	0	0	0	0	0	0	3	10	6	0	0	5
Crude Oil Tanker	0	0	0	0	0	0	2	3	3	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	0	0	1	0	0	0
Products Tanker	0	0	0	0	0	0	5	7	3	4	0	3
Total	0	0	0	3	38	80	356	540	450	209	22	14

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S47. Operational hours in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	49	159	119	153	81	0	0
Bulk Carrier	0	0	0	0	0	49	159	119	153	81	0	0
Dry Cargo/Passenger	0	0	0	7	179	502	763	1326	1201	744	190	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	24	8	0	0	33	0
General Cargo Ship	0	0	0	7	155	47	366	728	634	673	157	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	30	31	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	27	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	82	0	0	0
Landing Craft	0	0	0	0	0	0	254	272	318	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	38	0	40	0	0
Passenger/Cruise	0	0	0	0	24	454	118	254	84	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	26	26	0	0	0
Fishing	0	0	0	0	0	0	281	427	453	338	95	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	41	0	0
Fishing Vessel	0	0	0	0	0	0	281	382	401	297	95	0
Stern Trawler	0	0	0	0	0	0	0	45	52	0	0	0
Miscellaneous	0	0	0	5	263	626	3960	6475	5373	2101	129	203
Articulated Pusher Tug	0	0	0	0	0	47	0	0	0	0	0	0
Buoy Tender	0	0	0	0	0	0	86	0	108	65	0	0
Icebreaker	0	0	0	5	263	88	300	452	167	293	42	203
Icebreaker/Research	0	0	0	0	0	0	0	41	27	0	0	0
Pusher Tug	0	0	0	0	0	0	143	33	67	0	0	0
Research Survey Vessel	0	0	0	0	0	121	447	888	319	518	88	0
Tug	0	0	0	0	0	371	2984	5060	4686	1226	0	0
Offshore	0	0	0	0	0	0	1493	2818	2935	1561	108	0
Anchor Handling Tug Supply	0	0	0	0	0	0	637	1241	1140	641	108	0
Drilling Ship	0	0	0	0	0	0	49	62	0	45	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	41	0	0	0
Platform Supply Ship	0	0	0	0	0	0	808	1516	1754	875	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S47. Operational hours in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Jun	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	0	0	0	0	0	0	209	595	337	171	0	107
Chemical Tanker	0	0	0	0	0	0	62	34	33	35	0	0
Chemical/Products Tanker	0	0	0	0	0	0	47	276	173	0	0	67
Crude Oil Tanker	0	0	0	0	0	0	39	160	98	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	0	0	11	0	0	0
Products Tanker	0	0	0	0	0	0	61	125	22	136	0	40
Total	0	0	0	12	442	1177	6865	11760	10451	4996	523	310

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S48. Distance travelled (nm) in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	596	1818	1353	1305	915	0	0
Bulk Carrier	0	0	0	0	0	596	1818	1353	1305	915	0	0
Dry Cargo/Passenger	0	0	0	28	961	2824	6650	12342	12229	7592	1939	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	273	96	0	0	288	0
General Cargo Ship	0	0	0	28	774	119	3744	7182	7028	6815	1650	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	373	375	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	0	369	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	747	0	0	0
Landing Craft	0	0	0	0	0	0	1627	1605	2159	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	371	0	402	0	0
Passenger/Cruise	0	0	0	0	187	2705	1007	2720	1184	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	369	369	0	0	0
Fishing	0	0	0	0	0	0	1933	2529	2729	2049	588	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	367	0	0
Fishing Vessel	0	0	0	0	0	0	1933	2155	2354	1682	588	0
Stern Trawler	0	0	0	0	0	0	0	374	375	0	0	0
Miscellaneous	0	0	0	35	930	2868	18519	28520	24399	9062	1280	2201
Articulated Pusher Tug	0	0	0	0	0	309	0	0	0	0	0	0
Buoy Tender	0	0	0	0	0	0	557	0	1122	528	0	0
Icebreaker	0	0	0	35	930	259	2874	2426	1078	2494	609	2201
Icebreaker/Research	0	0	0	0	0	0	0	332	301	0	0	0
Pusher Tug	0	0	0	0	0	0	937	290	418	0	0	0
Research Survey Vessel	0	0	0	0	0	935	3495	6446	2392	2900	671	0
Tug	0	0	0	0	0	1365	10655	19026	19088	3139	0	0
Offshore	0	0	0	0	0	0	7547	12404	12184	7454	804	0
Anchor Handling Tug Supply	0	0	0	0	0	0	3366	6306	5346	3036	804	0
Drilling Ship	0	0	0	0	0	0	322	219	0	313	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	364	0	0	0
Platform Supply Ship	0	0	0	0	0	0	3859	5879	6474	4105	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S48. Distance travelled (nm) in the Chukchi Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Jun	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	0	0	0	0	0	0	2207	4445	3071	1796	0	1052
Chemical Tanker	0	0	0	0	0	0	662	373	367	367	0	0
Chemical/Products Tanker	0	0	0	0	0	0	514	2706	1920	0	0	632
Crude Oil Tanker	0	0	0	0	0	0	345	476	521	0	0	0
Crude/Oil Products Tanker	0	0	0	0	0	0	0	0	109	0	0	0
Products Tanker	0	0	0	0	0	0	687	890	154	1429	0	420
Total	0	0	0	63	1891	6288	38674	61593	55916	28868	4610	3253

Appendix S49. Unique vessel counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	11	0	0	11
Bulk Carrier	0	0	0	0	11	0	0	11
Dry Cargo/Passenger	4	5	12	11	4	0	0	36
Container Ship (Fully Cellular)	0	0	2	3	0	0	0	5
General Cargo Ship	1	1	5	1	0	0	0	8
General Cargo Ship (with Ro-Ro facility)	0	0	0	1	0	0	0	1
Passenger Ship	2	1	0	0	0	0	0	3
Passenger/Cruise	1	2	5	4	4	0	0	16
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	1	0	0	0	1
Refrigerated Cargo Ship	0	1	0	0	0	0	0	1
Ro-Ro Cargo Ship	0	0	0	1	0	0	0	1
Fishing	11	26	0	0	0	0	0	37
Factory Stern Trawler	0	11	0	0	0	0	0	11
Fishery Research Vessel	1	1	0	0	0	0	0	2
Fishing Vessel	3	1	0	0	0	0	0	4
Seal Catcher	1	0	0	0	0	0	0	1
Stern Trawler	6	13	0	0	0	0	0	19
Miscellaneous	8	2	7	1	0	0	0	18
Buoy Tender	0	1	0	0	0	0	0	1
Hopper/Dredger (unspecified)	1	0	0	0	0	0	0	1
Icebreaker	0	0	4	1	0	0	0	5
Icebreaker/Research	0	0	1	0	0	0	0	1
Patrol Vessel	3	0	0	0	0	0	0	3
Research Survey Vessel	0	1	2	0	0	0	0	3
Suction Dredger	1	0	0	0	0	0	0	1
Tug	3	0	0	0	0	0	0	3

Appendix S49. Unique vessel counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	1	0	0	0	0	0	1	2
FPSO, Oil	0	0	0	0	0	0	1	1
Platform Supply Ship	1	0	0	0	0	0	0	1
Tankers	0	2	2	5	1	0	0	10
Chemical Tanker	0	0	1	0	0	0	0	1
Chemical/Products Tanker	0	2	1	5	1	0	0	9
Total	24	35	21	17	16	0	1	114

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S50. Transit counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	27	0	0	27
Bulk Carrier	0	0	0	0	27	0	0	27
Dry Cargo/Passenger	145	335	234	187	21	0	0	922
Container Ship (Fully Cellular)	0	0	125	113	0	0	0	238
General Cargo Ship	26	132	14	3	0	0	0	175
General Cargo Ship (with Ro-Ro facility)	0	0	0	3	0	0	0	3
Passenger Ship	31	86	0	0	0	0	0	117
Passenger/Cruise	88	63	95	41	21	0	0	308
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	23	0	0	0	23
Refrigerated Cargo Ship	0	54	0	0	0	0	0	54
Ro-Ro Cargo Ship	0	0	0	4	0	0	0	4
Fishing	321	478	0	0	0	0	0	799
Factory Stern Trawler	0	248	0	0	0	0	0	248
Fishery Research Vessel	41	1	0	0	0	0	0	42
Fishing Vessel	140	6	0	0	0	0	0	146
Seal Catcher	2	0	0	0	0	0	0	2
Stern Trawler	138	223	0	0	0	0	0	361
Miscellaneous	187	8	20	2	0	0	0	217
Buoy Tender	0	3	0	0	0	0	0	3
Hopper/Dredger (unspecified)	32	0	0	0	0	0	0	32
Icebreaker	0	0	6	2	0	0	0	8
Icebreaker/Research	0	0	5	0	0	0	0	5
Patrol Vessel	52	0	0	0	0	0	0	52
Research Survey Vessel	0	5	9	0	0	0	0	14
Suction Dredger	91	0	0	0	0	0	0	91
Tug	12	0	0	0	0	0	0	12

Appendix S50. Transit counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	2	0	0	0	0	0	2	4
FPSO, Oil	0	0	0	0	0	0	2	2
Platform Supply Ship	2	0	0	0	0	0	0	2
Tankers	0	172	3	13	2	0	0	190
Chemical Tanker	0	0	2	0	0	0	0	2
Chemical/Products Tanker	0	172	1	13	2	0	0	188
Total	655	993	257	202	50	0	2	2159

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Appendix S51. Operational hours in the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	506	0	0	506
Bulk Carrier	0	0	0	0	506	0	0	506
Dry Cargo/Passenger	1072	3129	2649	1336	183	0	0	8369
Container Ship (Fully Cellular)	0	0	1628	668	0	0	0	2296
General Cargo Ship	84	940	246	37	0	0	0	1307
General Cargo Ship (with Ro-Ro facility)	0	0	0	41	0	0	0	41
Passenger Ship	329	1301	0	0	0	0	0	1631
Passenger/Cruise	659	441	774	333	183	0	0	2390
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	183	0	0	0	183
Refrigerated Cargo Ship	0	446	0	0	0	0	0	446
Ro-Ro Cargo Ship	0	0	0	75	0	0	0	75
Fishing	7645	25915	0	0	0	0	0	33559
Factory Stern Trawler	0	9902	0	0	0	0	0	9902
Fishery Research Vessel	423	1	0	0	0	0	0	424
Fishing Vessel	1150	160	0	0	0	0	0	1310
Seal Catcher	10	0	0	0	0	0	0	10
Stern Trawler	6062	15852	0	0	0	0	0	21913
Miscellaneous	1337	309	330	33	0	0	0	2009
Buoy Tender	0	49	0	0	0	0	0	49
Hopper/Dredger (unspecified)	229	0	0	0	0	0	0	229
Icebreaker	0	0	131	33	0	0	0	164
Icebreaker/Research	0	0	97	0	0	0	0	97
Patrol Vessel	276	0	0	0	0	0	0	276
Research Survey Vessel	0	259	102	0	0	0	0	361
Suction Dredger	672	0	0	0	0	0	0	672
Tug	160	0	0	0	0	0	0	160

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S51. Operational hours in the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	15	0	0	0	0	0	7	22
FPSO, Oil	0	0	0	0	0	0	7	7
Platform Supply Ship	15	0	0	0	0	0	0	15
Tankers	0	1518	119	229	5	0	0	1872
Chemical Tanker	0	0	98	0	0	0	0	98
Chemical/Products Tanker	0	1518	22	229	5	0	0	1774
Total	10070	30870	3098	1598	694	0	7	46337

Appendix S52. Distance travelled (nm) in the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	5646	0	0	5646
Bulk Carrier	0	0	0	0	5646	0	0	5646
Dry Cargo/Passenger	6956	29981	29296	16523	2020	0	0	84775
Container Ship (Fully Cellular)	0	0	18024	9242	0	0	0	27266
General Cargo Ship	698	8314	2887	424	0	0	0	12323
General Cargo Ship (with Ro-Ro facility)	0	0	0	535	0	0	0	535
Passenger Ship	3141	12342	0	0	0	0	0	15483
Passenger/Cruise	3117	4548	8386	3809	2020	0	0	21879
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	1859	0	0	0	1859
Refrigerated Cargo Ship	0	4776	0	0	0	0	0	4776
Ro-Ro Cargo Ship	0	0	0	653	0	0	0	653
Fishing	27794	96238	0	0	0	0	0	124032
Factory Stern Trawler	0	36955	0	0	0	0	0	36955
Fishery Research Vessel	2284	6	0	0	0	0	0	2289
Fishing Vessel	3611	675	0	0	0	0	0	4286
Seal Catcher	71	0	0	0	0	0	0	71
Stern Trawler	21829	58602	0	0	0	0	0	80430
Miscellaneous	9233	1876	3157	493	0	0	0	14759
Buoy Tender	0	517	0	0	0	0	0	517
Hopper/Dredger (unspecified)	1571	0	0	0	0	0	0	1571
Icebreaker	0	0	1406	493	0	0	0	1899
Icebreaker/Research	0	0	659	0	0	0	0	659
Patrol Vessel	2615	0	0	0	0	0	0	2615
Research Survey Vessel	0	1360	1093	0	0	0	0	2452
Suction Dredger	3929	0	0	0	0	0	0	3929
Tug	1118	0	0	0	0	0	0	1118

Appendix S52. Distance travelled (nm) in the Davis Strait by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	187	0	0	0	0	0	70	257
FPSO, Oil	0	0	0	0	0	0	70	70
Platform Supply Ship	187	0	0	0	0	0	0	187
Tankers	0	15132	803	2717	51	0	0	18703
Chemical Tanker	0	0	565	0	0	0	0	565
Chemical/Products Tanker	0	15132	239	2717	51	0	0	18139
Total	44170	143226	33256	19733	7716	0	70	248172

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Appendix S53. Unique vessel counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	2	10	9	2	0	0
Bulk Carrier	0	0	0	0	0	0	2	10	9	2	0	0
Dry Cargo/Passenger	5	4	6	6	8	11	18	29	24	9	8	8
Container Ship (Fully Cellular)	3	4	4	4	4	4	5	4	5	4	4	4
General Cargo Ship	1	0	1	1	1	2	3	6	6	2	1	1
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	1	1	0	0	0
Passenger Ship	1	0	1	1	2	1	2	2	1	2	2	2
Passenger/Cruise	0	0	0	0	1	2	6	14	9	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	1	1	0	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	1	1	1	1	1	1	1
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	10	8	5	7	9	10	12	15	25	21	21	9
Factory Stern Trawler	4	4	2	1	1	2	3	4	8	7	7	4
Fishery Research Vessel	0	0	0	0	1	1	1	0	1	0	1	0
Fishing Vessel	0	0	1	1	1	0	1	2	3	2	2	1
Seal Catcher	0	0	0	0	0	1	0	0	0	0	0	0
Stern Trawler	6	4	2	5	6	6	7	9	13	12	11	4
Miscellaneous	1	1	1	1	0	2	9	8	8	9	4	2
Buoy Tender	0	0	0	0	0	0	1	0	0	0	0	0
Hopper/Dredger (unspecified)	0	0	0	0	0	1	1	1	1	1	1	0
Icebreaker	0	0	0	0	0	0	1	1	2	2	1	0
Icebreaker/Research	0	0	0	0	0	0	0	1	0	1	0	0
Patrol Vessel	1	1	1	1	0	0	2	2	2	2	1	1
Research Survey Vessel	0	0	0	0	0	0	1	1	1	0	0	0
Suction Dredger	0	0	0	0	0	1	1	1	1	1	1	1
Tug	0	0	0	0	0	0	2	1	1	2	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S53. Unique vessel counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	0	1	2	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	0	1	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	1	1	0	0	0
Tankers	2	1	2	2	2	2	4	7	7	3	2	2
Chemical Tanker	0	0	0	0	0	0	0	0	1	0	0	0
Chemical/Products Tanker	2	1	2	2	2	2	4	7	6	3	2	2
Total	18	14	14	16	19	25	45	70	75	44	35	21

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Appendix S54. Transit counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	2	15	10	2	0	0
Bulk Carrier	0	0	0	0	0	0	2	15	10	2	0	0
Dry Cargo/Passenger	21	9	15	28	70	126	172	192	124	81	51	42
Container Ship (Fully Cellular)	13	9	9	18	24	27	26	24	27	25	23	17
General Cargo Ship	6	0	2	3	20	33	22	25	21	23	11	10
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	1	2	0	0	0
Passenger Ship	2	0	4	7	15	9	18	12	8	25	11	7
Passenger/Cruise	0	0	0	0	11	32	91	123	53	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	16	8	0	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	9	7	6	10	8	6	8
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	1	3	0	0	0
Fishing	79	35	21	50	68	81	56	74	114	101	104	57
Factory Stern Trawler	39	18	12	6	3	4	16	14	37	32	47	32
Fishery Research Vessel	0	0	0	0	1	27	13	0	1	0	1	0
Fishing Vessel	0	0	3	14	1	0	2	31	40	37	15	3
Seal Catcher	0	0	0	0	0	2	0	0	0	0	0	0
Stern Trawler	40	17	6	30	63	48	25	29	36	32	41	22
Miscellaneous	3	1	1	3	0	28	38	31	52	30	27	5
Buoy Tender	0	0	0	0	0	0	3	0	0	0	0	0
Hopper/Dredger (unspecified)	0	0	0	0	0	6	1	4	8	6	7	0
Icebreaker	0	0	0	0	0	0	1	1	2	2	2	0
Icebreaker/Research	0	0	0	0	0	0	0	2	0	3	0	0
Patrol Vessel	3	1	1	3	0	0	15	6	16	3	4	1
Research Survey Vessel	0	0	0	0	0	0	2	7	5	0	0	0
Suction Dredger	0	0	0	0	0	22	14	8	15	14	14	4
Tug	0	0	0	0	0	0	2	3	6	2	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S54. Transit counts for the Davis Strait by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	0	1	3	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	0	2	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	1	1	0	0	0
Tankers	9	3	3	5	26	24	11	28	21	21	15	25
Chemical Tanker	0	0	0	0	0	0	0	0	2	0	0	0
Chemical/Products Tanker	9	3	3	5	26	24	11	28	19	21	15	25
Total	112	48	40	86	164	259	279	341	324	235	197	129

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S55. Operational hours in the Davis Strait by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	17	255	192	42	0	0
Bulk Carrier	0	0	0	0	0	0	17	255	192	42	0	0
Dry Cargo/Passenger	190	68	92	218	549	1017	1434	1758	1290	820	565	368
Container Ship (Fully Cellular)	135	68	55	128	200	266	258	271	268	248	249	149
General Cargo Ship	52	0	31	30	114	151	185	208	250	151	69	68
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	19	22	0	0	0
Passenger Ship	4	0	6	59	151	175	242	227	120	349	202	95
Passenger/Cruise	0	0	0	0	85	223	634	964	485	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	125	57	0	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	77	58	51	88	71	45	56
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	17	58	0	0	0
Fishing	1755	738	574	2353	3131	3405	2352	3545	4885	4504	3678	2639
Factory Stern Trawler	350	441	117	520	691	773	745	1168	993	1538	1436	1129
Fishery Research Vessel	0	0	0	0	13	278	110	0	23	0	1	0
Fishing Vessel	0	0	152	209	17	0	30	171	341	276	99	16
Seal Catcher	0	0	0	0	0	10	0	0	0	0	0	0
Stern Trawler	1405	297	305	1623	2411	2344	1468	2206	3529	2690	2142	1494
Miscellaneous	11	5	4	9	0	180	409	264	608	308	186	26
Buoy Tender	0	0	0	0	0	0	49	0	0	0	0	0
Hopper/Dredger (unspecified)	0	0	0	0	0	17	17	36	81	39	40	0
Icebreaker	0	0	0	0	0	0	28	27	32	43	33	0
Icebreaker/Research	0	0	0	0	0	0	0	27	0	71	0	0
Patrol Vessel	11	5	4	9	0	0	81	35	97	10	22	1
Research Survey Vessel	0	0	0	0	0	0	41	61	259	0	0	0
Suction Dredger	0	0	0	0	0	163	144	49	106	94	91	25
Tug	0	0	0	0	0	0	48	28	32	52	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S55. Operational hours in the Davis Strait by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	0	14	8	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	0	7	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	14	1	0	0	0
Tankers	70	19	14	15	234	285	98	281	348	197	133	178
Chemical Tanker	0	0	0	0	0	0	0	0	98	0	0	0
Chemical/Products Tanker	70	19	14	15	234	285	98	281	250	197	133	178
Total	2026	830	684	2594	3915	4887	4310	6117	7330	5871	4561	3210

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Appendix S56. Distance travelled (nm) in the Davis Strait by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	239	2754	2189	464	0	0
Bulk Carrier	0	0	0	0	0	0	239	2754	2189	464	0	0
Dry Cargo/Passenger	1816	565	707	1997	4846	9808	14599	19009	12647	8889	5821	4071
Container Ship (Fully Cellular)	1403	565	495	1278	2214	3362	3336	3350	3395	3224	2759	1886
General Cargo Ship	381	0	149	213	854	1382	1860	2207	2591	1463	601	622
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	255	280	0	0	0
Passenger Ship	33	0	63	506	1424	1675	2023	2118	1116	3656	1938	931
Passenger/Cruise	0	0	0	0	355	1334	6026	10278	3887	0	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	1175	684	0	0	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	880	670	583	943	546	522	632
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	218	435	0	0	0
Fishing	4966	2295	1381	6839	11246	12943	8785	13198	19588	18404	15052	9335
Factory Stern Trawler	1016	1266	286	1547	2220	2428	2805	4217	4542	6693	5874	4060
Fishery Research Vessel	0	0	0	0	115	1395	557	0	218	0	6	0
Fishing Vessel	0	0	288	373	56	0	225	647	1244	1148	274	31
Seal Catcher	0	0	0	0	0	71	0	0	0	0	0	0
Stern Trawler	3950	1028	807	4920	8855	9050	5198	8333	13585	10563	8899	5244
Miscellaneous	74	42	6	82	0	1201	3400	2032	3956	2349	1438	180
Buoy Tender	0	0	0	0	0	0	517	0	0	0	0	0
Hopper/Dredger (unspecified)	0	0	0	0	0	133	145	251	514	290	237	0
Icebreaker	0	0	0	0	0	0	213	230	448	515	493	0
Icebreaker/Research	0	0	0	0	0	0	0	219	0	440	0	0
Patrol Vessel	74	42	6	82	0	0	809	355	933	104	205	7
Research Survey Vessel	0	0	0	0	0	0	422	671	1360	0	0	0
Suction Dredger	0	0	0	0	0	1068	871	260	556	498	503	173
Tug	0	0	0	0	0	0	425	46	146	501	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S56. Distance travelled (nm) in the Davis Strait by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	0	180	77	0	0	0
FPSO, Oil	0	0	0	0	0	0	0	0	70	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	180	7	0	0	0
Tankers	549	72	65	106	1902	3160	1142	3084	3408	2002	1525	1690
Chemical Tanker	0	0	0	0	0	0	0	0	565	0	0	0
Chemical/Products Tanker	549	72	65	106	1902	3160	1142	3084	2843	2002	1525	1690
Total	7405	2973	2158	9025	17994	27112	28165	40257	41865	32108	23836	15275

Appendix S57. Unique vessel counts for the East Siberian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	0	19	17	9	2	0	0	47
Container Ship (Fully Cellular)	0	0	1	0	0	0	0	1
General Cargo Ship	0	15	15	6	0	0	0	36
General Cargo Ship (with Ro-Ro facility)	0	0	0	1	0	0	0	1
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Palletised Cargo Ship	0	1	0	0	0	0	0	1
Passenger/Cruise	0	2	1	1	0	0	0	4
Refrigerated Cargo Ship	0	1	0	0	0	0	0	1
Fishing	1	2	0	0	0	0	0	3
Factory Stern Trawler	0	1	0	0	0	0	0	1
Stern Trawler	1	1	0	0	0	0	0	2
Miscellaneous	0	4	3	4	0	0	0	11
Icebreaker	0	0	0	3	0	0	0	3
Icebreaker/Research	0	0	1	1	0	0	0	2
Research Survey Vessel	0	4	1	0	0	0	0	5
Tug	0	0	1	0	0	0	0	1
Offshore	0	6	0	0	0	0	0	6
Anchor Handling Tug Supply	0	5	0	0	0	0	0	5
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Tankers	0	3	4	3	0	0	0	10
Chemical Tanker	0	1	0	0	0	0	0	1
Chemical/Products Tanker	0	1	1	0	0	0	0	2
Crude/Oil Products Tanker	0	0	0	2	0	0	0	2
Products Tanker	0	1	3	1	0	0	0	5
Total	1	34	24	16	2	0	0	77

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Appendix S58. Transit counts for the East Siberian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	0	120	68	44	2	0	0	234
Container Ship (Fully Cellular)	0	0	9	0	0	0	0	9
General Cargo Ship	0	103	55	22	0	0	0	180
General Cargo Ship (with Ro-Ro facility)	0	0	0	3	0	0	0	3
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Palletised Cargo Ship	0	3	0	0	0	0	0	3
Passenger/Cruise	0	12	4	18	0	0	0	34
Refrigerated Cargo Ship	0	2	0	0	0	0	0	2
Fishing	2	11	0	0	0	0	0	13
Factory Stern Trawler	0	2	0	0	0	0	0	2
Stern Trawler	2	9	0	0	0	0	0	11
Miscellaneous	0	16	8	18	0	0	0	42
Icebreaker	0	0	0	16	0	0	0	16
Icebreaker/Research	0	0	1	2	0	0	0	3
Research Survey Vessel	0	16	6	0	0	0	0	22
Tug	0	0	1	0	0	0	0	1
Offshore	0	15	0	0	0	0	0	15
Anchor Handling Tug Supply	0	14	0	0	0	0	0	14
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Tankers	0	15	12	21	0	0	0	48
Chemical Tanker	0	6	0	0	0	0	0	6
Chemical/Products Tanker	0	2	4	0	0	0	0	6
Crude/Oil Products Tanker	0	0	0	18	0	0	0	18
Products Tanker	0	7	8	3	0	0	0	18
Total	2	177	88	83	2	0	0	352

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Appendix S59. Operational hours in the East Siberian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	0	3547	1607	1485	144	0	0	6784
Container Ship (Fully Cellular)	0	0	357	0	0	0	0	357
General Cargo Ship	0	3229	1173	803	0	0	0	5205
General Cargo Ship (with Ro-Ro facility)	0	0	0	132	0	0	0	132
Heavy Load Carrier	0	0	0	51	0	0	0	51
Heavy Load Carrier, semi submersible	0	0	0	0	144	0	0	144
Palletised Cargo Ship	0	147	0	0	0	0	0	147
Passenger/Cruise	0	44	77	498	0	0	0	619
Refrigerated Cargo Ship	0	128	0	0	0	0	0	128
Fishing	206	447	0	0	0	0	0	652
Factory Stern Trawler	0	82	0	0	0	0	0	82
Stern Trawler	206	364	0	0	0	0	0	570
Miscellaneous	0	1045	198	1105	0	0	0	2348
Icebreaker	0	0	0	1056	0	0	0	1056
Icebreaker/Research	0	0	4	49	0	0	0	53
Research Survey Vessel	0	1045	161	0	0	0	0	1206
Tug	0	0	34	0	0	0	0	34
Offshore	0	697	0	0	0	0	0	697
Anchor Handling Tug Supply	0	594	0	0	0	0	0	594
Offshore Tug/Supply Ship	0	103	0	0	0	0	0	103
Tankers	0	456	655	901	0	0	0	2012
Chemical Tanker	0	280	0	0	0	0	0	280
Chemical/Products Tanker	0	10	253	0	0	0	0	262
Crude/Oil Products Tanker	0	0	0	776	0	0	0	776
Products Tanker	0	167	402	124	0	0	0	693
Total	206	6192	2460	3491	144	0	0	12493

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Appendix S6o. Distance travelled (nm) in the East Siberian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Dry Cargo/Passenger	0	29693	18170	16566	1502	0	0	65930
Container Ship (Fully Cellular)	0	0	4199	0	0	0	0	4199
General Cargo Ship	0	26270	13051	9632	0	0	0	48954
General Cargo Ship (with Ro-Ro facility)	0	0	0	1459	0	0	0	1459
Heavy Load Carrier	0	0	0	735	0	0	0	735
Heavy Load Carrier, semi submersible	0	0	0	0	1502	0	0	1502
Palletised Cargo Ship	0	1506	0	0	0	0	0	1506
Passenger/Cruise	0	275	920	4739	0	0	0	5934
Refrigerated Cargo Ship	0	1641	0	0	0	0	0	1641
Fishing	1097	3204	0	0	0	0	0	4300
Factory Stern Trawler	0	715	0	0	0	0	0	715
Stern Trawler	1097	2489	0	0	0	0	0	3586
Miscellaneous	0	8960	2030	12963	0	0	0	23952
Icebreaker	0	0	0	12424	0	0	0	12424
Icebreaker/Research	0	0	16	539	0	0	0	555
Research Survey Vessel	0	8960	1661	0	0	0	0	10621
Tug	0	0	353	0	0	0	0	353
Offshore	0	5700	0	0	0	0	0	5700
Anchor Handling Tug Supply	0	4977	0	0	0	0	0	4977
Offshore Tug/Supply Ship	0	723	0	0	0	0	0	723
Tankers	0	4308	6279	8005	0	0	0	18593
Chemical Tanker	0	2863	0	0	0	0	0	2863
Chemical/Products Tanker	0	104	2331	0	0	0	0	2435
Crude/Oil Products Tanker	0	0	0	6534	0	0	0	6534
Products Tanker	0	1342	3948	1471	0	0	0	6761
Total	1097	51865	26480	37533	1502	0	0	118476

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Appendix S61. Unique vessel counts for the East Siberian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	1	0	7	24	31	21	4	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	1	1	1	0	0
General Cargo Ship	0	0	0	0	0	0	5	17	22	18	4	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	1	1	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	1	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	1	0	0
Passenger/Cruise	0	0	0	0	1	0	2	3	3	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	0	0	0	0	0	0	0	1	2	2	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	1	0	0
Stern Trawler	0	0	0	0	0	0	0	1	2	1	0	0
Miscellaneous	0	0	0	0	0	0	2	4	7	6	3	1
Icebreaker	0	0	0	0	0	0	2	1	2	2	2	1
Icebreaker/Research	0	0	0	0	0	0	0	1	1	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	2	4	4	0	0
Tug	0	0	0	0	0	0	0	0	0	0	1	0
Offshore	0	0	0	0	0	0	1	2	3	1	2	1
Anchor Handling Tug Supply	0	0	0	0	0	0	1	2	2	1	2	1
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	0	0	0
Tankers	0	0	0	0	0	0	3	6	8	6	2	2
Chemical Tanker	0	0	0	0	0	0	1	1	1	1	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	1	2	0	1	1
Crude/Oil Products Tanker	0	0	0	0	0	0	2	2	2	1	0	0
Products Tanker	0	0	0	0	0	0	0	2	3	4	1	1
Total	0	0	0	0	1	0	13	37	51	36	11	4

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Appendix S62. Transit counts for the East Siberian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	2	0	18	82	93	42	9	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	4	2	3	0	0
General Cargo Ship	0	0	0	0	0	0	8	60	77	35	9	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	1	2	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	1	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	2	0	0
Passenger/Cruise	0	0	0	0	2	0	10	15	9	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	0	0	0	0	0	0	0	8	2	3	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	2	0	0
Stern Trawler	0	0	0	0	0	0	0	8	2	1	0	0
Miscellaneous	0	0	0	0	0	0	2	10	16	13	4	2
Icebreaker	0	0	0	0	0	0	2	3	4	4	3	2
Icebreaker/Research	0	0	0	0	0	0	0	1	2	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	6	10	9	0	0
Tug	0	0	0	0	0	0	0	0	0	0	1	0
Offshore	0	0	0	0	0	0	2	4	5	1	3	1
Anchor Handling Tug Supply	0	0	0	0	0	0	2	4	4	1	3	1
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	0	0	0
Tankers	0	0	0	0	0	0	7	9	21	10	2	2
Chemical Tanker	0	0	0	0	0	0	1	3	1	2	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	2	3	0	1	1
Crude/Oil Products Tanker	0	0	0	0	0	0	6	2	9	1	0	0
Products Tanker	0	0	0	0	0	0	0	2	8	7	1	1
Total	0	0	0	0	2	0	29	113	137	69	18	5

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Appendix S63. Operational hours in the East Siberian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	11	0	404	2185	2640	1339	205	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	137	106	114	0	0
General Cargo Ship	0	0	0	0	0	0	147	1645	2129	1080	205	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	57	76	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	4	47	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	144	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	78	0	69	0	0
Passenger/Cruise	0	0	0	0	11	0	257	241	110	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	80	47	0	0	0
Fishing	0	0	0	0	0	0	0	271	273	108	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	82	0	0
Stern Trawler	0	0	0	0	0	0	0	271	273	25	0	0
Miscellaneous	0	0	0	0	0	0	80	355	1121	370	284	137
Icebreaker	0	0	0	0	0	0	80	115	276	197	251	137
Icebreaker/Research	0	0	0	0	0	0	0	4	49	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	237	796	173	0	0
Tug	0	0	0	0	0	0	0	0	0	0	34	0
Offshore	0	0	0	0	0	0	33	143	276	79	86	80
Anchor Handling Tug Supply	0	0	0	0	0	0	33	143	173	79	86	80
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	103	0	0	0
Tankers	0	0	0	0	0	0	459	459	617	336	86	55
Chemical Tanker	0	0	0	0	0	0	34	103	64	79	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	104	91	0	32	36
Crude/Oil Products Tanker	0	0	0	0	0	0	425	106	199	46	0	0
Products Tanker	0	0	0	0	0	0	0	147	263	210	54	19
Total	0	0	0	0	11	0	976	3414	4928	2232	661	272

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Appendix S64. Distance travelled (nm) in the East Siberian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Dry Cargo/Passenger	0	0	0	0	90	0	3357	20497	25778	14085	2123	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	1483	1289	1427	0	0
General Cargo Ship	0	0	0	0	0	0	1368	14815	19465	11183	2123	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	727	733	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	60	675	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	1502	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	763	0	743	0	0
Passenger/Cruise	0	0	0	0	90	0	1988	2471	1385	0	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	906	735	0	0	0
Fishing	0	0	0	0	0	0	0	1724	1736	840	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	715	0	0
Stern Trawler	0	0	0	0	0	0	0	1724	1736	126	0	0
Miscellaneous	0	0	0	0	0	0	652	2995	10936	4513	3303	1554
Icebreaker	0	0	0	0	0	0	652	1074	3395	2800	2950	1554
Icebreaker/Research	0	0	0	0	0	0	0	16	539	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	1906	7002	1713	0	0
Tug	0	0	0	0	0	0	0	0	0	0	353	0
Offshore	0	0	0	0	0	0	217	930	2287	719	791	755
Anchor Handling Tug Supply	0	0	0	0	0	0	217	930	1564	719	791	755
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	723	0	0	0
Tankers	0	0	0	0	0	0	3117	4375	6387	3090	1012	612
Chemical Tanker	0	0	0	0	0	0	360	959	749	795	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	810	865	0	350	410
Crude/Oil Products Tanker	0	0	0	0	0	0	2758	1093	2138	546	0	0
Products Tanker	0	0	0	0	0	0	0	1512	2635	1749	662	202
Total	0	0	0	0	90	0	7344	30522	47123	23247	7229	2921

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Appendix S65. Unique vessel counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	4	1	7	7	0	0	19
Bulk Carrier	0	1	0	6	7	0	0	14
Cement Carrier	0	3	1	1	0	0	0	5
Dry Cargo/Passenger	11	64	25	15	12	14	4	145
Container Ship (Fully Cellular)	0	0	5	2	0	0	0	7
General Cargo Ship	2	38	6	1	0	0	0	47
General Cargo/Passenger Ship	0	1	0	0	0	0	0	1
Landing Craft	1	0	0	0	0	0	0	1
Palletised Cargo Ship	0	2	0	0	0	0	0	2
Passenger Ship	3	2	0	0	0	0	0	5
Passenger/Cruise	5	5	7	11	12	14	4	58
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	1	0	0	0	1
Refrigerated Cargo Ship	0	16	7	0	0	0	0	23
Fishing	101	183	8	0	0	0	0	292
Factory Stern Trawler	2	40	6	0	0	0	0	48
Fish Carrier	1	1	0	0	0	0	0	2
Fish Factory Ship	0	2	0	0	0	0	0	2
Fishery Research Vessel	3	1	0	0	0	0	0	4
Fishing Vessel	38	42	0	0	0	0	0	80
Seal Catcher	1	0	0	0	0	0	0	1
Stern Trawler	49	84	1	0	0	0	0	134
Trawler	7	13	1	0	0	0	0	21
Miscellaneous	7	17	5	2	0	0	0	31
Buoy & Lighthouse Tender	1	0	0	0	0	0	0	1
Hopper, Motor	1	0	0	0	0	0	0	1
Icebreaker	0	1	3	1	0	0	0	5
Icebreaker/Research	0	0	0	1	0	0	0	1
Patrol Vessel	0	4	1	0	0	0	0	5
Research Survey Vessel	3	12	1	0	0	0	0	16
Tug	2	0	0	0	0	0	0	2

Appendix S65. Unique vessel counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	2	2	0	0	0	0	0	4
Offshore Tug/Supply Ship	1	0	0	0	0	0	0	1
Platform Supply Ship	0	2	0	0	0	0	0	2
Standby Safety Vessel	1	0	0	0	0	0	0	1
Tankers	0	9	3	3	1	0	0	16
Asphalt/Bitumen Tanker	0	1	0	0	0	0	0	1
Chemical Tanker	0	1	0	0	0	0	0	1
Chemical/Products Tanker	0	6	3	3	1	0	0	13
Products Tanker	0	1	0	0	0	0	0	1
Total	121	279	42	27	20	14	4	507

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Appendix S66. Transit counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	9	5	15	34	0	0	63
Bulk Carrier	0	3	0	13	34	0	0	50
Cement Carrier	0	6	5	2	0	0	0	13
Dry Cargo/Passenger	795	900	348	125	52	35	18	2273
Container Ship (Fully Cellular)	0	0	41	2	0	0	0	43
General Cargo Ship	66	204	18	2	0	0	0	290
General Cargo/Passenger Ship	0	69	0	0	0	0	0	69
Landing Craft	6	0	0	0	0	0	0	6
Palletised Cargo Ship	0	5	0	0	0	0	0	5
Passenger Ship	225	156	0	0	0	0	0	381
Passenger/Cruise	498	296	191	60	52	35	18	1150
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	61	0	0	0	61
Refrigerated Cargo Ship	0	170	98	0	0	0	0	268
Fishing	2179	1843	30	0	0	0	0	4052
Factory Stern Trawler	33	526	22	0	0	0	0	581
Fish Carrier	3	4	0	0	0	0	0	7
Fish Factory Ship	0	25	0	0	0	0	0	25
Fishery Research Vessel	35	17	0	0	0	0	0	52
Fishing Vessel	922	295	0	0	0	0	0	1217
Seal Catcher	49	0	0	0	0	0	0	49
Stern Trawler	1006	863	1	0	0	0	0	1870
Trawler	131	113	7	0	0	0	0	251
Miscellaneous	134	274	95	45	0	0	0	548
Buoy & Lighthouse Tender	19	0	0	0	0	0	0	19
Hopper, Motor	1	0	0	0	0	0	0	1
Icebreaker	0	1	13	2	0	0	0	16
Icebreaker/Research	0	0	0	43	0	0	0	43
Patrol Vessel	0	21	46	0	0	0	0	67
Research Survey Vessel	49	252	36	0	0	0	0	337
Tug	65	0	0	0	0	0	0	65

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Appendix S66. Transit counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	2	78	0	0	0	0	0	80
Offshore Tug/Supply Ship	1	0	0	0	0	0	0	1
Platform Supply Ship	0	78	0	0	0	0	0	78
Standby Safety Vessel	1	0	0	0	0	0	0	1
Tankers	0	55	15	14	2	0	0	86
Asphalt/Bitumen Tanker	0	3	0	0	0	0	0	3
Chemical Tanker	0	8	0	0	0	0	0	8
Chemical/Products Tanker	0	15	15	14	2	0	0	46
Products Tanker	0	29	0	0	0	0	0	29
Total	3110	3159	493	199	88	35	18	7102

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Appendix S67. Operational hours in the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	127	42	217	455	0	0	841
Bulk Carrier	0	111	0	210	455	0	0	777
Cement Carrier	0	16	42	7	0	0	0	64
Dry Cargo/Passenger	7357	11843	3856	1627	760	364	84	25892
Container Ship (Fully Cellular)	0	0	409	32	0	0	0	440
General Cargo Ship	708	2532	136	63	0	0	0	3439
General Cargo/Passenger Ship	0	1571	0	0	0	0	0	1571
Landing Craft	10	0	0	0	0	0	0	10
Palletised Cargo Ship	0	68	0	0	0	0	0	68
Passenger Ship	2089	2221	0	0	0	0	0	4311
Passenger/Cruise	4550	3887	2481	640	760	364	84	12767
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	891	0	0	0	891
Refrigerated Cargo Ship	0	1565	831	0	0	0	0	2395
Fishing	71052	61371	525	0	0	0	0	132947
Factory Stern Trawler	1420	19826	348	0	0	0	0	21593
Fish Carrier	35	82	0	0	0	0	0	117
Fish Factory Ship	0	221	0	0	0	0	0	221
Fishery Research Vessel	1325	716	0	0	0	0	0	2042
Fishing Vessel	23851	6343	0	0	0	0	0	30194
Seal Catcher	825	0	0	0	0	0	0	825
Stern Trawler	38960	32208	27	0	0	0	0	71194
Trawler	4636	1975	150	0	0	0	0	6761
Miscellaneous	1854	8112	3423	720	0	0	0	14108
Buoy & Lighthouse Tender	160	0	0	0	0	0	0	160
Hopper, Motor	4	0	0	0	0	0	0	4
Icebreaker	0	51	1833	51	0	0	0	1935
Icebreaker/Research	0	0	0	669	0	0	0	669
Patrol Vessel	0	354	1046	0	0	0	0	1400
Research Survey Vessel	1180	7707	544	0	0	0	0	9430
Tug	510	0	0	0	0	0	0	510

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S67. Operational hours in the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	31	740	0	0	0	0	0	771
Offshore Tug/Supply Ship	1	0	0	0	0	0	0	1
Platform Supply Ship	0	740	0	0	0	0	0	740
Standby Safety Vessel	30	0	0	0	0	0	0	30
Tankers	0	783	108	46	62	0	0	998
Asphalt/Bitumen Tanker	0	11	0	0	0	0	0	11
Chemical Tanker	0	88	0	0	0	0	0	88
Chemical/Products Tanker	0	243	108	46	62	0	0	459
Products Tanker	0	441	0	0	0	0	0	441
Total	80293	82975	7954	2610	1278	364	84	175558

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Appendix S68. Distance travelled (nm) in the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	1178	452	2136	4700	0	0	8466
Bulk Carrier	0	1011	0	2056	4700	0	0	7766
Cement Carrier	0	167	452	81	0	0	0	700
Dry Cargo/Passenger	46248	99578	32724	16522	10467	5763	1398	212700
Container Ship (Fully Cellular)	0	0	5035	426	0	0	0	5461
General Cargo Ship	5479	24409	1548	766	0	0	0	32201
General Cargo/Passenger Ship	0	12937	0	0	0	0	0	12937
Landing Craft	84	0	0	0	0	0	0	84
Palletised Cargo Ship	0	672	0	0	0	0	0	672
Passenger Ship	13694	17556	0	0	0	0	0	31249
Passenger/Cruise	26992	32762	21483	7248	10467	5763	1398	106113
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	8082	0	0	0	8082
Refrigerated Cargo Ship	0	11243	4658	0	0	0	0	15902
Fishing	257905	328205	3629	0	0	0	0	589739
Factory Stern Trawler	7526	107454	2632	0	0	0	0	117611
Fish Carrier	192	537	0	0	0	0	0	729
Fish Factory Ship	0	1352	0	0	0	0	0	1352
Fishery Research Vessel	8113	5350	0	0	0	0	0	13463
Fishing Vessel	78596	33729	0	0	0	0	0	112325
Seal Catcher	4659	0	0	0	0	0	0	4659
Stern Trawler	144672	169362	297	0	0	0	0	314330
Trawler	14147	10422	700	0	0	0	0	25270
Miscellaneous	10742	51106	21799	4963	0	0	0	88609
Buoy & Lighthouse Tender	1186	0	0	0	0	0	0	1186
Hopper, Motor	11	0	0	0	0	0	0	11
Icebreaker	0	460	10255	474	0	0	0	11190
Icebreaker/Research	0	0	0	4489	0	0	0	4489
Patrol Vessel	0	1957	7519	0	0	0	0	9476
Research Survey Vessel	5464	48688	4025	0	0	0	0	58177
Tug	4081	0	0	0	0	0	0	4081

Appendix S68. Distance travelled (nm) in the Greenland Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	281	5411	0	0	0	0	0	5692
Offshore Tug/Supply Ship	4	0	0	0	0	0	0	4
Platform Supply Ship	0	5411	0	0	0	0	0	5411
Standby Safety Vessel	277	0	0	0	0	0	0	277
Tankers	0	6624	1359	568	680	0	0	9231
Asphalt/Bitumen Tanker	0	133	0	0	0	0	0	133
Chemical Tanker	0	1018	0	0	0	0	0	1018
Chemical/Products Tanker	0	1984	1359	568	680	0	0	4591
Products Tanker	0	3489	0	0	0	0	0	3489
Total	315176	492101	59963	24189	15847	5763	1398	914438

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Appendix S69. Unique vessel counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	1	1	0	1	2	1	2	6	6	5	4	1
Bulk Carrier	1	0	0	0	1	1	2	5	6	3	3	1
Cement Carrier	0	1	0	1	1	0	0	1	0	2	1	0
Dry Cargo/Passenger	17	17	21	18	33	52	64	55	39	23	19	17
Container Ship (Fully Cellular)	4	3	2	4	4	2	2	3	0	2	2	1
General Cargo Ship	5	8	10	9	11	6	12	12	10	8	10	8
General Cargo/Passenger Ship	0	0	0	0	0	1	1	1	0	0	0	0
Landing Craft	0	0	0	0	0	1	0	1	0	0	0	0
Palletised Cargo Ship	1	0	0	0	0	1	0	1	0	0	0	0
Passenger Ship	0	0	0	0	3	4	4	4	4	0	0	1
Passenger/Cruise	1	0	2	0	13	31	37	24	13	2	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	1	1	1	0	0	0
Refrigerated Cargo Ship	6	6	7	5	2	6	7	8	11	11	7	7
Fishing	126	117	97	55	45	77	81	91	127	118	112	83
Factory Stern Trawler	15	22	24	9	7	15	16	24	34	22	21	23
Fish Carrier	0	0	0	0	0	0	0	0	1	1	1	0
Fish Factory Ship	0	0	2	1	0	0	0	0	0	1	2	2
Fishery Research Vessel	1	1	2	0	1	1	2	2	2	1	1	0
Fishing Vessel	40	37	17	9	7	14	13	13	21	25	20	7
Seal Catcher	0	0	1	1	1	1	1	1	0	0	0	0
Stern Trawler	61	47	46	33	27	43	46	48	62	61	61	51
Trawler	9	10	5	2	2	3	3	3	7	7	6	0
Miscellaneous	3	3	3	5	4	9	12	20	16	11	6	4
Buoy & Lighthouse Tender	0	0	0	0	0	1	1	1	1	0	0	0
Hopper, Motor	0	0	0	0	0	0	0	0	0	0	0	1
Icebreaker	0	0	0	0	0	0	0	3	3	3	0	0
Icebreaker/Research	0	0	0	0	1	1	1	1	0	1	0	0
Patrol Vessel	1	1	0	2	1	1	2	3	2	1	1	2
Research Survey Vessel	2	2	3	3	2	6	8	10	8	4	3	1
Tug	0	0	0	0	0	0	0	2	2	2	2	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S69. Unique vessel counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	1	1	1	2	2	2	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	0	1	0	0
Platform Supply Ship	0	0	0	0	1	1	1	1	2	1	0	0
Standby Safety Vessel	0	0	0	0	0	0	0	1	0	0	0	0
Tankers	2	3	4	3	4	3	6	5	4	3	5	3
Asphalt/Bitumen Tanker	0	0	1	0	0	0	1	0	0	0	0	0
Chemical Tanker	0	0	0	0	0	0	0	1	0	0	1	0
Chemical/Products Tanker	1	2	2	2	3	2	4	3	4	2	3	3
Products Tanker	1	1	1	1	1	1	1	1	0	1	1	0
Total	149	141	125	82	89	143	166	179	194	162	146	108

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S70. Transit counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	1	2	0	1	4	2	5	15	12	12	9	1
Bulk Carrier	1	0	0	0	2	2	5	13	12	9	6	1
Cement Carrier	0	2	0	1	2	0	0	2	0	3	3	0
Dry Cargo/Passenger	40	37	49	38	122	497	573	458	296	100	55	51
Container Ship (Fully Cellular)	8	3	3	4	4	2	2	9	0	6	2	1
General Cargo Ship	7	11	21	17	21	36	48	49	29	19	23	16
General Cargo/Passenger Ship	0	0	0	0	0	17	24	30	0	0	0	0
Landing Craft	0	0	0	0	0	4	0	2	0	0	0	0
Palletised Cargo Ship	2	0	0	0	0	1	0	2	0	0	0	0
Passenger Ship	0	0	0	0	21	85	113	99	65	0	0	1
Passenger/Cruise	4	0	3	0	73	332	354	222	147	39	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	18	28	17	0	0	0
Refrigerated Cargo Ship	19	23	22	17	3	20	14	17	38	36	30	33
Fishing	449	443	304	224	163	289	342	361	549	496	408	217
Factory Stern Trawler	49	55	67	21	15	38	44	62	92	66	65	54
Fish Carrier	0	0	0	0	0	0	0	0	4	2	3	0
Fish Factory Ship	0	0	8	5	0	0	0	0	0	2	5	5
Fishery Research Vessel	4	2	9	0	2	1	7	16	8	4	1	0
Fishing Vessel	116	144	67	50	47	86	120	104	193	190	105	27
Seal Catcher	0	0	1	18	5	4	17	7	0	0	0	0
Stern Trawler	245	185	136	124	88	140	139	159	219	201	208	131
Trawler	35	57	16	6	6	20	15	13	33	31	21	0
Miscellaneous	21	7	18	22	17	43	127	140	105	35	21	11
Buoy & Lighthouse Tender	0	0	0	0	0	1	13	3	2	0	0	0
Hopper, Motor	0	0	0	0	0	0	0	0	0	0	0	1
Icebreaker	0	0	0	0	0	0	0	5	9	5	0	0
Icebreaker/Research	0	0	0	0	1	4	20	17	0	1	0	0
Patrol Vessel	7	4	0	12	3	6	6	9	15	1	2	5
Research Survey Vessel	14	3	18	10	13	32	88	88	61	12	6	5
Tug	0	0	0	0	0	0	0	18	18	16	13	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S70. Transit counts for the Greenland Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	7	15	15	12	20	12	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	0	1	0	0
Platform Supply Ship	0	0	0	0	7	15	15	11	20	11	0	0
Standby Safety Vessel	0	0	0	0	0	0	0	1	0	0	0	0
Tankers	4	4	7	5	6	8	15	12	5	7	10	4
Asphalt/Bitumen Tanker	0	0	2	0	0	0	1	0	0	0	0	0
Chemical Tanker	0	0	0	0	0	0	0	3	0	0	5	0
Chemical/Products Tanker	2	3	3	3	4	4	7	5	5	2	4	4
Products Tanker	2	1	2	2	2	4	7	4	0	5	1	0
Total	515	493	378	290	319	854	1077	998	987	662	503	284

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S71. Operational hours in the Greenland Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	28	4	0	1	36	54	59	178	208	128	116	29
Bulk Carrier	28	0	0	0	32	54	59	170	208	120	77	29
Cement Carrier	0	4	0	1	4	0	0	8	0	8	39	0
Dry Cargo/Passenger	475	396	579	341	1158	5612	6698	5299	3483	912	498	441
Container Ship (Fully Cellular)	56	17	4	19	32	15	3	197	0	83	16	1
General Cargo Ship	108	96	279	204	248	417	550	561	323	242	234	178
General Cargo/Passenger Ship	0	0	0	0	0	408	600	563	0	0	0	0
Landing Craft	0	0	0	0	0	7	0	3	0	0	0	0
Palletised Cargo Ship	31	0	0	0	0	33	0	3	0	0	0	0
Passenger Ship	0	0	0	0	188	1038	1130	1117	836	0	0	0
Passenger/Cruise	24	0	29	0	677	3537	4067	2424	1684	326	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	223	317	351	0	0	0
Refrigerated Cargo Ship	256	283	268	119	12	158	125	113	289	262	248	261
Fishing	14678	9197	7108	6951	5877	6955	9847	11742	19924	17851	16069	6746
Factory Stern Trawler	1502	1547	1578	914	469	778	1369	2918	3906	2527	2233	1852
Fish Carrier	0	0	0	0	0	0	0	0	78	4	35	0
Fish Factory Ship	0	0	83	41	0	0	0	0	0	18	43	37
Fishery Research Vessel	227	70	225	0	76	83	188	690	241	128	114	0
Fishing Vessel	3247	1577	1000	1321	980	1626	2098	1938	5962	6102	4110	233
Seal Catcher	0	0	3	332	71	89	155	175	0	0	0	0
Stern Trawler	8350	5195	4174	3910	3777	4031	5688	5797	8636	8053	8958	4624
Trawler	1353	808	44	434	505	348	349	223	1102	1020	575	0
Miscellaneous	359	197	302	438	387	782	2371	3643	3759	1347	367	156
Buoy & Lighthouse Tender	0	0	0	0	0	17	78	30	35	0	0	0
Hopper, Motor	0	0	0	0	0	0	0	0	0	0	0	4
Icebreaker	0	0	0	0	0	0	0	664	884	387	0	0
Icebreaker/Research	0	0	0	0	29	134	326	159	0	22	0	0
Patrol Vessel	108	105	0	225	43	101	85	173	398	13	83	66
Research Survey Vessel	251	92	302	213	315	530	1882	2459	2311	813	174	86
Tug	0	0	0	0	0	0	0	158	130	111	110	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S71. Operational hours in the Greenland Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	39	145	125	158	190	114	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	0	1	0	0
Platform Supply Ship	0	0	0	0	39	145	125	128	190	113	0	0
Standby Safety Vessel	0	0	0	0	0	0	0	30	0	0	0	0
Tankers	41	18	49	72	55	110	152	176	31	73	174	48
Asphalt/Bitumen Tanker	0	0	6	0	0	0	5	0	0	0	0	0
Chemical Tanker	0	0	0	0	0	0	0	33	0	0	54	0
Chemical/Products Tanker	6	6	5	26	33	56	71	79	31	5	92	48
Products Tanker	35	12	38	46	21	54	76	64	0	68	28	0
Total	15581	9812	8038	7804	7551	13657	19252	21197	27594	20426	17224	7419

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S72. Distance travelled (nm) in the Greenland Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	221	33	0	15	341	567	550	1822	2072	1311	1194	341
Bulk Carrier	221	0	0	0	296	567	550	1733	2072	1206	779	341
Cement Carrier	0	33	0	15	45	0	0	89	0	104	414	0
Dry Cargo/Passenger	3477	2110	4499	3248	9618	47831	57313	43147	27201	6956	4230	3070
Container Ship (Fully Cellular)	801	286	51	300	496	219	35	1972	0	1021	265	15
General Cargo Ship	868	779	2688	1959	2506	4022	5001	4931	3021	2340	2307	1779
General Cargo/Passenger Ship	0	0	0	0	0	3339	4840	4757	0	0	0	0
Landing Craft	0	0	0	0	0	59	0	24	0	0	0	0
Palletised Cargo Ship	363	0	0	0	0	275	0	34	0	0	0	0
Passenger Ship	0	0	0	0	1354	7463	7979	8063	6384	0	0	6
Passenger/Cruise	113	0	243	0	5133	30882	36088	19473	12514	1668	0	0
Passenger/Ro-Ro Ship (Vehicles)	0	0	0	0	0	0	2108	2797	3177	0	0	0
Refrigerated Cargo Ship	1332	1045	1517	989	129	1572	1262	1095	2105	1927	1658	1269
Fishing	71348	42432	34756	27443	22860	30069	48387	54928	89296	70457	64516	33247
Factory Stern Trawler	7777	7665	9683	5248	3095	4289	7908	14997	22592	13421	11165	9771
Fish Carrier	0	0	0	0	0	0	0	0	502	35	192	0
Fish Factory Ship	0	0	443	279	0	0	0	0	0	108	293	229
Fishery Research Vessel	1804	547	1015	0	571	731	1458	3670	1879	849	940	0
Fishing Vessel	15454	7496	2942	3979	3701	7208	10949	8542	19928	18727	12759	640
Seal Catcher	0	0	30	1234	319	679	1162	1236	0	0	0	0
Stern Trawler	39642	22874	20133	15426	13702	16182	25551	25687	40956	34066	37504	22607
Trawler	6670	3850	511	1278	1472	981	1359	797	3438	3251	1663	0
Miscellaneous	2217	1631	1701	3350	2316	5724	14591	23508	22635	8137	2201	597
Buoy & Lighthouse Tender	0	0	0	0	0	163	388	290	345	0	0	0
Hopper, Motor	0	0	0	0	0	0	0	0	0	0	0	11
Icebreaker	0	0	0	0	0	0	0	3841	5080	2268	0	0
Icebreaker/Research	0	0	0	0	306	917	1955	1048	0	263	0	0
Patrol Vessel	707	1008	0	1524	293	764	586	1240	2555	38	490	269
Research Survey Vessel	1509	623	1701	1826	1717	3880	11662	15870	13606	4706	759	317
Tug	0	0	0	0	0	0	0	1219	1049	863	951	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S72. Distance travelled (nm) in the Greenland Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	329	1126	847	1103	1476	811	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	0	4	0	0
Platform Supply Ship	0	0	0	0	329	1126	847	826	1476	807	0	0
Standby Safety Vessel	0	0	0	0	0	0	0	277	0	0	0	0
Tankers	379	140	428	576	603	1218	1526	1712	329	571	1276	474
Asphalt/Bitumen Tanker	0	0	66	0	0	0	67	0	0	0	0	0
Chemical Tanker	0	0	0	0	0	0	0	388	0	0	630	0
Chemical/Products Tanker	88	83	60	228	411	743	816	831	329	62	467	474
Products Tanker	291	58	302	348	192	475	643	493	0	509	179	0
Total	77642	46346	41384	34631	36067	86537	123215	126219	143009	88243	73416	37729

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S73. Unique vessel counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	1	0	11	3	0	0	15
Bulk Carrier	0	0	0	11	2	0	0	13
Bulk Carrier, Self-discharging	0	0	0	0	1	0	0	1
Ore/Oil Carrier	0	1	0	0	0	0	0	1
Dry Cargo/Passenger	3	37	29	26	4	0	0	99
Container Ship (Fully Cellular)	0	0	1	0	0	0	0	1
General Cargo Ship	1	31	27	17	0	0	0	76
General Cargo Ship (with Ro-Ro facility)	0	0	0	3	0	0	0	3
Heavy Load Carrier	0	0	0	2	0	0	0	2
Heavy Load Carrier, semi submersible	0	0	0	2	2	0	0	4
Open Hatch Cargo Ship	0	0	0	0	2	0	0	2
Palletised Cargo Ship	0	1	0	0	0	0	0	1
Passenger Ship	2	1	0	0	0	0	0	3
Passenger/Cruise	0	1	1	2	0	0	0	4
Refrigerated Cargo Ship	0	2	0	0	0	0	0	2
Ro-Ro Cargo Ship	0	1	0	0	0	0	0	1
Fishing	13	3	0	0	0	0	0	16
Factory Stern Trawler	0	1	0	0	0	0	0	1
Fish Carrier	2	0	0	0	0	0	0	2
Fishery Research Vessel	0	1	0	0	0	0	0	1
Fishing Vessel	1	0	0	0	0	0	0	1
Stern Trawler	10	1	0	0	0	0	0	11
Miscellaneous	26	27	9	9	2	0	0	73
Crane Vessel	0	1	0	0	1	0	0	2
Cutter Suction Dredger	0	0	1	0	0	0	0	1
Hopper, Motor	2	4	0	0	0	0	0	6
Icebreaker	0	3	1	3	0	0	0	7
Icebreaker/Research	0	0	0	2	0	0	0	2
Research Survey Vessel	5	11	2	1	0	0	0	19
Trailing Suction Hopper Dredger	0	4	3	3	1	0	0	11
Tug	18	3	2	0	0	0	0	23
Utility Vessel	1	0	0	0	0	0	0	1
Work/Repair Vessel	0	1	0	0	0	0	0	1

Appendix S73. Unique vessel counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	4	9	1	0	0	0	0	14
Anchor Handling Tug Supply	0	7	1	0	0	0	0	8
Crew/Supply Vessel	1	0	0	0	0	0	0	1
Diving Support Vessel	1	0	0	0	0	0	0	1
Drilling Ship	1	0	0	0	0	0	0	1
Offshore Support Vessel	0	1	0	0	0	0	0	1
Offshore Tug/Supply Ship	1	1	0	0	0	0	0	2
Tankers	0	11	5	11	0	0	0	27
Chemical Tanker	0	2	0	0	0	0	0	2
Chemical/Products Tanker	0	2	2	4	0	0	0	8
Crude/Oil Products Tanker	0	0	0	3	0	0	0	3
Products Tanker	0	6	3	4	0	0	0	13
Vegetable Oil Tanker	0	1	0	0	0	0	0	1
Total	46	88	44	57	9	0	0	244

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S74. Transit counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	7	0	200	19	0	0	226
Bulk Carrier	0	0	0	200	16	0	0	216
Bulk Carrier, Self-discharging	0	0	0	0	3	0	0	3
Ore/Oil Carrier	0	7	0	0	0	0	0	7
Dry Cargo/Passenger	68	251	399	399	10	0	0	1127
Container Ship (Fully Cellular)	0	0	6	0	0	0	0	6
General Cargo Ship	16	182	390	228	0	0	0	816
General Cargo Ship (with Ro-Ro facility)	0	0	0	95	0	0	0	95
Heavy Load Carrier	0	0	0	7	0	0	0	7
Heavy Load Carrier, semi submersible	0	0	0	4	4	0	0	8
Open Hatch Cargo Ship	0	0	0	0	6	0	0	6
Palletised Cargo Ship	0	2	0	0	0	0	0	2
Passenger Ship	52	37	0	0	0	0	0	89
Passenger/Cruise	0	4	3	65	0	0	0	72
Refrigerated Cargo Ship	0	12	0	0	0	0	0	12
Ro-Ro Cargo Ship	0	14	0	0	0	0	0	14
Fishing	363	16	0	0	0	0	0	379
Factory Stern Trawler	0	1	0	0	0	0	0	1
Fish Carrier	38	0	0	0	0	0	0	38
Fishery Research Vessel	0	1	0	0	0	0	0	1
Fishing Vessel	21	0	0	0	0	0	0	21
Stern Trawler	304	14	0	0	0	0	0	318
Miscellaneous	635	454	167	248	14	0	0	1518
Crane Vessel	0	22	0	0	4	0	0	26
Cutter Suction Dredger	0	0	4	0	0	0	0	4
Hopper, Motor	41	94	0	0	0	0	0	135
Icebreaker	0	94	38	147	0	0	0	279
Icebreaker/Research	0	0	0	23	0	0	0	23
Research Survey Vessel	115	133	45	2	0	0	0	295
Trailing Suction Hopper Dredger	0	84	58	76	10	0	0	228
Tug	446	20	22	0	0	0	0	488
Utility Vessel	33	0	0	0	0	0	0	33
Work/Repair Vessel	0	7	0	0	0	0	0	7

Appendix S74. Transit counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	135	88	2	0	0	0	0	225
Anchor Handling Tug Supply	0	83	2	0	0	0	0	85
Crew/Supply Vessel	64	0	0	0	0	0	0	64
Diving Support Vessel	24	0	0	0	0	0	0	24
Drilling Ship	35	0	0	0	0	0	0	35
Offshore Support Vessel	0	4	0	0	0	0	0	4
Offshore Tug/Supply Ship	12	1	0	0	0	0	0	13
Tankers	0	93	39	150	0	0	0	282
Chemical Tanker	0	20	0	0	0	0	0	20
Chemical/Products Tanker	0	19	20	42	0	0	0	81
Crude/Oil Products Tanker	0	0	0	63	0	0	0	63
Products Tanker	0	47	19	45	0	0	0	111
Vegetable Oil Tanker	0	7	0	0	0	0	0	7
Total	1201	909	607	997	43	0	0	3757

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Appendix S75. Operational hours in the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	55	0	4853	686	0	0	5595
Bulk Carrier	0	0	0	4853	679	0	0	5532
Bulk Carrier, Self-discharging	0	0	0	0	7	0	0	7
Ore/Oil Carrier	0	55	0	0	0	0	0	55
Dry Cargo/Passenger	584	9457	9815	15261	494	0	0	35611
Container Ship (Fully Cellular)	0	0	406	0	0	0	0	406
General Cargo Ship	222	6592	9342	11410	0	0	0	27565
General Cargo Ship (with Ro-Ro facility)	0	0	0	1791	0	0	0	1791
Heavy Load Carrier	0	0	0	281	0	0	0	281
Heavy Load Carrier, semi submersible	0	0	0	158	237	0	0	395
Open Hatch Cargo Ship	0	0	0	0	257	0	0	257
Palletised Cargo Ship	0	104	0	0	0	0	0	104
Passenger Ship	363	1686	0	0	0	0	0	2048
Passenger/Cruise	0	216	67	1621	0	0	0	1904
Refrigerated Cargo Ship	0	301	0	0	0	0	0	301
Ro-Ro Cargo Ship	0	558	0	0	0	0	0	558
Fishing	10197	795	0	0	0	0	0	10992
Factory Stern Trawler	0	105	0	0	0	0	0	105
Fish Carrier	340	0	0	0	0	0	0	340
Fishery Research Vessel	0	1	0	0	0	0	0	1
Fishing Vessel	1393	0	0	0	0	0	0	1393
Stern Trawler	8464	689	0	0	0	0	0	9153
Miscellaneous	19128	19009	6256	15735	2036	0	0	62163
Crane Vessel	0	246	0	0	163	0	0	409
Cutter Suction Dredger	0	0	111	0	0	0	0	111
Hopper, Motor	621	3283	0	0	0	0	0	3904
Icebreaker	0	1530	463	8694	0	0	0	10687
Icebreaker/Research	0	0	0	657	0	0	0	657
Research Survey Vessel	4970	9010	1099	2072	0	0	0	17151
Trailing Suction Hopper Dredger	0	3949	3880	4312	1873	0	0	14014
Tug	12696	414	702	0	0	0	0	13813
Utility Vessel	841	0	0	0	0	0	0	841
Work/Repair Vessel	0	576	0	0	0	0	0	576

Appendix S75. Operational hours in the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	2563	1937	82	0	0	0	0	4583
Anchor Handling Tug Supply	0	1756	82	0	0	0	0	1839
Crew/Supply Vessel	881	0	0	0	0	0	0	881
Diving Support Vessel	231	0	0	0	0	0	0	231
Drilling Ship	329	0	0	0	0	0	0	329
Offshore Support Vessel	0	86	0	0	0	0	0	86
Offshore Tug/Supply Ship	1122	95	0	0	0	0	0	1217
Tankers	0	2620	1764	6292	0	0	0	10676
Chemical Tanker	0	642	0	0	0	0	0	642
Chemical/Products Tanker	0	540	927	1686	0	0	0	3153
Crude/Oil Products Tanker	0	0	0	2157	0	0	0	2157
Products Tanker	0	1342	837	2449	0	0	0	4628
Vegetable Oil Tanker	0	97	0	0	0	0	0	97
Total	32472	33873	17918	42142	3216	0	0	129620

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Appendix S76. Distance travelled (nm) in the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	466	0	41669	8088	0	0	50223
Bulk Carrier	0	0	0	41669	7994	0	0	49663
Bulk Carrier, Self-discharging	0	0	0	0	94	0	0	94
Ore/Oil Carrier	0	466	0	0	0	0	0	466
Dry Cargo/Passenger	8288	66280	100012	156053	5416	0	0	336049
Container Ship (Fully Cellular)	0	0	5348	0	0	0	0	5348
General Cargo Ship	2145	47840	94014	117381	0	0	0	261381
General Cargo Ship (with Ro-Ro facility)	0	0	0	19159	0	0	0	19159
Heavy Load Carrier	0	0	0	3233	0	0	0	3233
Heavy Load Carrier, semi submersible	0	0	0	2009	2410	0	0	4419
Open Hatch Cargo Ship	0	0	0	0	3006	0	0	3006
Palletised Cargo Ship	0	1045	0	0	0	0	0	1045
Passenger Ship	6143	9844	0	0	0	0	0	15988
Passenger/Cruise	0	2061	649	14270	0	0	0	16980
Refrigerated Cargo Ship	0	3104	0	0	0	0	0	3104
Ro-Ro Cargo Ship	0	2385	0	0	0	0	0	2385
Fishing	50546	5135	0	0	0	0	0	55681
Factory Stern Trawler	0	880	0	0	0	0	0	880
Fish Carrier	2583	0	0	0	0	0	0	2583
Fishery Research Vessel	0	5	0	0	0	0	0	5
Fishing Vessel	6412	0	0	0	0	0	0	6412
Stern Trawler	41551	4250	0	0	0	0	0	45801
Miscellaneous	90654	96834	33929	113652	13246	0	0	348315
Crane Vessel	0	2014	0	0	1356	0	0	3370
Cutter Suction Dredger	0	0	1047	0	0	0	0	1047
Hopper, Motor	3399	14050	0	0	0	0	0	17448
Icebreaker	0	10554	2108	77470	0	0	0	90132
Icebreaker/Research	0	0	0	4358	0	0	0	4358
Research Survey Vessel	23406	47460	8397	10113	0	0	0	89377
Trailing Suction Hopper Dredger	0	15753	16084	21712	11891	0	0	65439
Tug	61670	2910	6294	0	0	0	0	70874
Utility Vessel	2179	0	0	0	0	0	0	2179
Work/Repair Vessel	0	4093	0	0	0	0	0	4093

Appendix S76. Distance travelled (nm) in the Kara Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	12050	12864	681	0	0	0	0	25596
Anchor Handling Tug Supply	0	10960	681	0	0	0	0	11641
Crew/Supply Vessel	3194	0	0	0	0	0	0	3194
Diving Support Vessel	1584	0	0	0	0	0	0	1584
Drilling Ship	2099	0	0	0	0	0	0	2099
Offshore Support Vessel	0	1030	0	0	0	0	0	1030
Offshore Tug/Supply Ship	5173	875	0	0	0	0	0	6047
Tankers	0	24009	18172	64038	0	0	0	106219
Chemical Tanker	0	6201	0	0	0	0	0	6201
Chemical/Products Tanker	0	5382	9135	17849	0	0	0	32366
Crude/Oil Products Tanker	0	0	0	21227	0	0	0	21227
Products Tanker	0	11904	9037	24961	0	0	0	45903
Vegetable Oil Tanker	0	523	0	0	0	0	0	523
Total	161539	205589	152794	375412	26750	0	0	922083

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Appendix S77. Unique vessel counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	3	2	3	6	6	6	8	8	7	8	7	4
Bulk Carrier	3	2	3	6	6	6	8	7	6	7	7	4
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	1	0	0	0	0
Ore/Oil Carrier	0	0	0	0	0	0	0	0	1	1	0	0
Dry Cargo/Passenger	13	17	15	14	18	19	36	58	65	55	26	20
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	1	1	1	0	0
General Cargo Ship	10	14	12	11	14	15	25	44	51	45	23	17
General Cargo Ship (with Ro-Ro facility)	2	1	1	2	3	2	2	2	3	2	3	2
Heavy Load Carrier	0	0	0	0	0	0	1	1	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	3	1	0	0
Open Hatch Cargo Ship	0	0	0	0	0	0	1	2	0	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	1	0	0
Passenger Ship	0	0	0	0	0	1	3	3	3	2	0	0
Passenger/Cruise	1	2	2	1	1	1	2	2	1	2	0	1
Refrigerated Cargo Ship	0	0	0	0	0	0	1	1	2	1	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	1	1	0	0	0	0
Fishing	0	0	0	0	0	1	9	11	13	10	1	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	1	0	0
Fish Carrier	0	0	0	0	0	1	2	0	1	1	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	0	0	1	0	0
Fishing Vessel	0	0	0	0	0	0	1	1	1	0	0	0
Stern Trawler	0	0	0	0	0	0	6	10	11	7	1	0
Miscellaneous	3	4	6	7	7	11	37	58	61	49	8	5
Crane Vessel	0	0	0	0	0	0	1	2	2	0	0	0
Cutter Suction Dredger	0	0	0	0	0	0	1	0	0	1	0	0
Hopper, Motor	0	0	0	0	0	0	2	4	6	6	0	0
Icebreaker	3	4	5	6	6	3	1	3	2	3	4	5
Icebreaker/Research	0	0	0	0	1	1	0	1	2	1	0	0
Research Survey Vessel	0	0	0	0	0	1	11	16	17	13	1	0
Trailing Suction Hopper Dredger	0	0	0	0	0	0	8	10	10	8	0	0
Tug	0	0	1	1	0	6	12	20	20	15	3	0
Utility Vessel	0	0	0	0	0	0	1	1	1	1	0	0
Work/Repair Vessel	0	0	0	0	0	0	0	1	1	1	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S77. Unique vessel counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	7	8	9	8	1	2
Anchor Handling Tug Supply	0	0	0	0	0	0	3	4	5	2	1	2
Crew/Supply Vessel	0	0	0	0	0	0	1	1	1	1	0	0
Diving Support Vessel	0	0	0	0	0	0	1	1	1	1	0	0
Drilling Ship	0	0	0	0	0	0	1	1	1	1	0	0
Offshore Support Vessel	0	0	0	0	0	0	1	0	0	1	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	1	1	2	0	0
Tankers	3	4	4	5	5	1	13	22	23	12	6	6
Chemical Tanker	0	0	0	0	0	0	0	2	2	2	0	0
Chemical/Products Tanker	0	1	1	1	1	0	5	7	7	3	2	1
Crude/Oil Products Tanker	1	2	2	2	2	0	3	3	3	1	1	3
Products Tanker	2	1	1	2	2	1	4	9	11	5	3	2
Vegetable Oil Tanker	0	0	0	0	0	0	1	1	0	1	0	0
Total	22	27	28	32	36	38	110	165	178	142	49	37

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S78. Transit counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	14	6	14	26	25	22	19	23	18	19	24	25
Bulk Carrier	14	6	14	26	25	22	19	20	14	16	24	25
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	3	0	0	0	0
Ore/Oil Carrier	0	0	0	0	0	0	0	0	4	3	0	0
Dry Cargo/Passenger	54	53	46	74	60	107	110	157	198	114	99	97
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	2	2	2	0	0
General Cargo Ship	34	46	38	41	43	80	62	97	146	93	87	82
General Cargo Ship (with Ro-Ro facility)	11	2	3	14	13	7	8	6	6	4	12	11
Heavy Load Carrier	0	0	0	0	0	0	1	4	3	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	6	2	0	0
Open Hatch Cargo Ship	0	0	0	0	0	0	2	4	0	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	1	0	0
Passenger Ship	0	0	0	0	0	8	27	24	24	8	0	0
Passenger/Cruise	9	5	5	19	4	12	7	4	5	2	0	4
Refrigerated Cargo Ship	0	0	0	0	0	0	2	2	6	2	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	1	13	0	0	0	0
Fishing	0	0	0	0	0	9	73	131	132	50	1	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	1	0	0
Fish Carrier	0	0	0	0	0	9	19	0	3	7	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	0	0	1	0	0
Fishing Vessel	0	0	0	0	0	0	4	11	8	0	0	0
Stern Trawler	0	0	0	0	0	0	50	120	121	41	1	0
Miscellaneous	23	30	41	54	48	56	168	355	510	238	48	29
Crane Vessel	0	0	0	0	0	0	6	10	11	0	0	0
Cutter Suction Dredger	0	0	0	0	0	0	2	0	0	2	0	0
Hopper, Motor	0	0	0	0	0	0	2	19	76	42	0	0
Icebreaker	23	30	35	52	38	28	3	12	11	5	29	29
Icebreaker/Research	0	0	0	0	10	6	0	1	2	4	0	0
Research Survey Vessel	0	0	0	0	0	3	63	91	106	54	1	0
Trailing Suction Hopper Dredger	0	0	0	0	0	0	18	65	114	52	0	0
Tug	0	0	6	2	0	19	73	140	174	70	18	0
Utility Vessel	0	0	0	0	0	0	1	13	12	8	0	0
Work/Repair Vessel	0	0	0	0	0	0	0	4	4	1	0	0

Appendix S78. Transit counts for the Kara Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	25	77	100	23	2	3
Anchor Handling Tug Supply	0	0	0	0	0	0	8	23	44	9	2	3
Crew/Supply Vessel	0	0	0	0	0	0	4	31	27	2	0	0
Diving Support Vessel	0	0	0	0	0	0	7	7	7	3	0	0
Drilling Ship	0	0	0	0	0	0	3	12	19	1	0	0
Offshore Support Vessel	0	0	0	0	0	0	3	0	0	1	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	4	3	7	0	0
Tankers	13	13	19	12	13	5	26	64	72	23	18	18
Chemical Tanker	0	0	0	0	0	0	0	11	4	5	0	0
Chemical/Products Tanker	0	4	7	4	3	0	10	18	25	6	8	2
Crude/Oil Products Tanker	7	7	7	3	8	0	4	7	8	1	6	6
Products Tanker	6	2	5	5	2	5	11	24	35	8	4	10
Vegetable Oil Tanker	0	0	0	0	0	0	1	4	0	3	0	0
Total	104	102	120	166	146	199	421	807	1030	467	192	172

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Appendix S79. Operational hours in the Kara Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	176	122	186	609	467	456	703	684	668	558	536	430
Bulk Carrier	176	122	186	609	467	456	703	677	641	529	536	430
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	7	0	0	0	0
Ore/Oil Carrier	0	0	0	0	0	0	0	0	27	28	0	0
Dry Cargo/Passenger	1972	1670	1821	1870	1409	2028	3229	5706	6611	4491	2616	2187
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	157	130	119	0	0
General Cargo Ship	1329	1437	1597	1489	1153	1681	2125	3793	4999	3556	2362	2043
General Cargo Ship (with Ro-Ro facility)	170	45	49	152	182	141	189	124	237	153	254	95
Heavy Load Carrier	0	0	0	0	0	0	2	139	140	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	281	114	0	0
Open Hatch Cargo Ship	0	0	0	0	0	0	84	173	0	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	56	0	48	0	0
Passenger Ship	0	0	0	0	0	63	517	598	606	265	0	0
Passenger/Cruise	473	189	174	229	74	144	178	114	104	177	0	49
Refrigerated Cargo Ship	0	0	0	0	0	0	64	64	115	59	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	70	488	0	0	0	0
Fishing	0	0	0	0	0	47	1741	4011	3515	1633	46	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	105	0	0
Fish Carrier	0	0	0	0	0	47	71	0	33	188	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	0	0	1	0	0
Fishing Vessel	0	0	0	0	0	0	400	526	468	0	0	0
Stern Trawler	0	0	0	0	0	0	1270	3485	3014	1338	46	0
Miscellaneous	965	1440	1859	2141	1605	838	7712	18599	17248	7336	1325	1095
Crane Vessel	0	0	0	0	0	0	107	175	127	0	0	0
Cutter Suction Dredger	0	0	0	0	0	0	56	0	0	55	0	0
Hopper, Motor	0	0	0	0	0	0	105	1422	1531	847	0	0
Icebreaker	965	1440	1770	2111	1396	376	118	167	217	217	815	1095
Icebreaker/Research	0	0	0	0	209	143	0	25	102	179	0	0
Research Survey Vessel	0	0	0	0	0	41	3366	5634	5874	2193	44	0
Trailing Suction Hopper Dredger	0	0	0	0	0	0	1071	5904	4768	2271	0	0
Tug	0	0	89	30	0	279	2788	4678	4078	1404	466	0
Utility Vessel	0	0	0	0	0	0	100	463	131	147	0	0
Work/Repair Vessel	0	0	0	0	0	0	0	132	422	23	0	0

Appendix S79. Operational hours in the Kara Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	518	1129	1890	805	99	142
Anchor Handling Tug Supply	0	0	0	0	0	0	180	356	821	241	99	142
Crew/Supply Vessel	0	0	0	0	0	0	73	360	337	111	0	0
Diving Support Vessel	0	0	0	0	0	0	115	16	27	73	0	0
Drilling Ship	0	0	0	0	0	0	100	63	88	78	0	0
Offshore Support Vessel	0	0	0	0	0	0	51	0	0	35	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	333	617	266	0	0
Tankers	199	516	488	651	393	102	1130	2417	2744	951	548	537
Chemical Tanker	0	0	0	0	0	0	0	245	193	203	0	0
Chemical/Products Tanker	0	162	115	102	146	0	536	668	953	175	234	61
Crude/Oil Products Tanker	64	129	152	166	157	0	304	434	369	87	67	229
Products Tanker	135	225	221	383	91	102	283	1046	1229	419	247	246
Vegetable Oil Tanker	0	0	0	0	0	0	7	24	0	66	0	0
Total	3312	3748	4354	5272	3874	3472	15032	32546	32676	15773	5170	4390

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Appendix S8o. Distance travelled (nm) in the Kara Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	1355	821	1400	5162	4203	3953	6836	6970	6961	4901	4268	3392
Bulk Carrier	1355	821	1400	5162	4203	3953	6836	6876	6738	4659	4268	3392
Bulk Carrier, Self-discharging	0	0	0	0	0	0	0	94	0	0	0	0
Ore/Oil Carrier	0	0	0	0	0	0	0	0	224	243	0	0
Dry Cargo/Passenger	16301	12876	14186	16538	13606	22214	32469	54487	60448	47342	24160	21422
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	1799	1796	1753	0	0
General Cargo Ship	10999	11207	12372	13637	10950	17904	21650	38424	44589	37701	21869	20080
General Cargo Ship (with Ro-Ro facility)	1319	402	396	1220	2028	1529	2473	1642	3096	1955	2292	807
Heavy Load Carrier	0	0	0	0	0	0	30	1850	1354	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	3215	1205	0	0
Open Hatch Cargo Ship	0	0	0	0	0	0	1006	2000	0	0	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	535	0	511	0	0
Passenger Ship	0	0	0	0	0	1026	4696	4385	4093	1787	0	0
Passenger/Cruise	3984	1267	1417	1680	628	1754	1537	1127	1078	1973	0	534
Refrigerated Cargo Ship	0	0	0	0	0	0	544	874	1228	458	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	533	1852	0	0	0	0
Fishing	0	0	0	0	0	345	9381	18709	16984	10060	202	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	880	0	0
Fish Carrier	0	0	0	0	0	345	415	0	286	1536	0	0
Fishery Research Vessel	0	0	0	0	0	0	0	0	0	5	0	0
Fishing Vessel	0	0	0	0	0	0	2025	2160	2228	0	0	0
Stern Trawler	0	0	0	0	0	0	6942	16549	14470	7638	202	0
Miscellaneous	7023	10770	12935	17874	13401	6491	46242	91891	78625	41633	11283	10147
Crane Vessel	0	0	0	0	0	0	896	1337	1137	0	0	0
Cutter Suction Dredger	0	0	0	0	0	0	533	0	0	514	0	0
Hopper, Motor	0	0	0	0	0	0	998	6224	5664	4563	0	0
Icebreaker	7023	10770	12402	17591	12751	3820	1409	1648	2337	3096	7138	10147
Icebreaker/Research	0	0	0	0	650	494	0	335	1090	1789	0	0
Research Survey Vessel	0	0	0	0	0	393	19465	27262	28367	13676	214	0
Trailing Suction Hopper Dredger	0	0	0	0	0	0	7897	29411	18265	9865	0	0
Tug	0	0	533	283	0	1784	14401	23841	18874	7226	3931	0
Utility Vessel	0	0	0	0	0	0	643	565	240	731	0	0
Work/Repair Vessel	0	0	0	0	0	0	0	1268	2652	173	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S8o. Distance travelled (nm) in the Kara Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	0	0	0	0	0	0	4091	5495	8523	5337	903	1246
Anchor Handling Tug Supply	0	0	0	0	0	0	1338	2170	4432	1551	903	1246
Crew/Supply Vessel	0	0	0	0	0	0	740	1302	627	526	0	0
Diving Support Vessel	0	0	0	0	0	0	714	103	157	610	0	0
Drilling Ship	0	0	0	0	0	0	764	257	410	668	0	0
Offshore Support Vessel	0	0	0	0	0	0	535	0	0	494	0	0
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	1663	2898	1487	0	0
Tankers	1619	4037	3201	5371	3628	1095	12333	26649	28627	9130	4960	5571
Chemical Tanker	0	0	0	0	0	0	0	2510	1840	1851	0	0
Chemical/Products Tanker	0	1243	544	731	1189	0	5803	7866	10670	1739	1898	683
Crude/Oil Products Tanker	413	1037	1210	1434	1486	0	3184	4859	3976	903	527	2197
Products Tanker	1205	1757	1447	3206	952	1095	3291	11228	12140	4355	2536	2690
Vegetable Oil Tanker	0	0	0	0	0	0	55	186	0	282	0	0
Total	26298	28505	31721	44945	34838	34098	111352	204201	200169	118403	45777	41778

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Appendix S81. Unique vessel counts for the Laptev Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	1	0	0	0	1
Bulk Carrier	0	0	0	1	0	0	0	1
Dry Cargo/Passenger	0	20	11	10	2	0	0	43
Container Ship (Fully Cellular)	0	0	1	0	0	0	0	1
General Cargo Ship	0	17	9	6	0	0	0	32
General Cargo Ship (with Ro-Ro facility)	0	0	0	2	0	0	0	2
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Palletised Cargo Ship	0	1	0	0	0	0	0	1
Passenger/Cruise	0	1	1	1	0	0	0	3
Refrigerated Cargo Ship	0	1	0	0	0	0	0	1
Fishing	1	2	0	0	0	0	0	3
Factory Stern Trawler	0	1	0	0	0	0	0	1
Stern Trawler	1	1	0	0	0	0	0	2
Miscellaneous	1	4	3	4	0	0	0	12
Icebreaker	0	0	0	2	0	0	0	2
Icebreaker/Research	0	0	0	2	0	0	0	2
Research Survey Vessel	1	4	2	0	0	0	0	7
Tug	0	0	1	0	0	0	0	1
Offshore	0	4	0	0	0	0	0	4
Anchor Handling Tug Supply	0	3	0	0	0	0	0	3
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Tankers	0	4	5	5	0	0	0	14
Chemical Tanker	0	1	0	0	0	0	0	1
Chemical/Products Tanker	0	0	2	1	0	0	0	3
Crude/Oil Products Tanker	0	0	0	2	0	0	0	2
Products Tanker	0	3	3	2	0	0	0	8
Total	2	34	19	20	2	0	0	77

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Appendix S82. Transit counts for the Laptev Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	3	0	0	0	3
Bulk Carrier	0	0	0	3	0	0	0	3
Dry Cargo/Passenger	0	232	50	65	2	0	0	349
Container Ship (Fully Cellular)	0	0	6	0	0	0	0	6
General Cargo Ship	0	225	41	26	0	0	0	292
General Cargo Ship (with Ro-Ro facility)	0	0	0	9	0	0	0	9
Heavy Load Carrier	0	0	0	1	0	0	0	1
Heavy Load Carrier, semi submersible	0	0	0	0	2	0	0	2
Palletised Cargo Ship	0	2	0	0	0	0	0	2
Passenger/Cruise	0	3	3	29	0	0	0	35
Refrigerated Cargo Ship	0	2	0	0	0	0	0	2
Fishing	5	4	0	0	0	0	0	9
Factory Stern Trawler	0	2	0	0	0	0	0	2
Stern Trawler	5	2	0	0	0	0	0	7
Miscellaneous	12	25	28	19	0	0	0	84
Icebreaker	0	0	0	16	0	0	0	16
Icebreaker/Research	0	0	0	3	0	0	0	3
Research Survey Vessel	12	25	11	0	0	0	0	48
Tug	0	0	17	0	0	0	0	17
Offshore	0	9	0	0	0	0	0	9
Anchor Handling Tug Supply	0	8	0	0	0	0	0	8
Offshore Tug/Supply Ship	0	1	0	0	0	0	0	1
Tankers	0	36	30	28	0	0	0	94
Chemical Tanker	0	4	0	0	0	0	0	4
Chemical/Products Tanker	0	0	14	8	0	0	0	22
Crude/Oil Products Tanker	0	0	0	15	0	0	0	15
Products Tanker	0	32	16	5	0	0	0	53
Total	17	306	108	115	2	0	0	548

Appendix S83. Operational hours in the Laptev Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	100	0	0	0	100
Bulk Carrier	0	0	0	100	0	0	0	100
Dry Cargo/Passenger	0	4441	1452	1855	102	0	0	7850
Container Ship (Fully Cellular)	0	0	262	0	0	0	0	262
General Cargo Ship	0	4178	1114	639	0	0	0	5930
General Cargo Ship (with Ro-Ro facility)	0	0	0	356	0	0	0	356
Heavy Load Carrier	0	0	0	38	0	0	0	38
Heavy Load Carrier, semi submersible	0	0	0	0	102	0	0	102
Palletised Cargo Ship	0	114	0	0	0	0	0	114
Passenger/Cruise	0	86	77	821	0	0	0	984
Refrigerated Cargo Ship	0	63	0	0	0	0	0	63
Fishing	351	406	0	0	0	0	0	757
Factory Stern Trawler	0	85	0	0	0	0	0	85
Stern Trawler	351	321	0	0	0	0	0	672
Miscellaneous	329	948	721	1046	0	0	0	3044
Icebreaker	0	0	0	928	0	0	0	928
Icebreaker/Research	0	0	0	118	0	0	0	118
Research Survey Vessel	329	948	397	0	0	0	0	1674
Tug	0	0	324	0	0	0	0	324
Offshore	0	507	0	0	0	0	0	507
Anchor Handling Tug Supply	0	420	0	0	0	0	0	420
Offshore Tug/Supply Ship	0	87	0	0	0	0	0	87
Tankers	0	452	866	963	0	0	0	2281
Chemical Tanker	0	203	0	0	0	0	0	203
Chemical/Products Tanker	0	0	365	169	0	0	0	534
Crude/Oil Products Tanker	0	0	0	583	0	0	0	583
Products Tanker	0	249	501	211	0	0	0	962
Total	680	6753	3039	3964	102	0	0	14539

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Appendix S84. Distance travelled (nm) in the Laptev Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	954	0	0	0	954
Bulk Carrier	0	0	0	954	0	0	0	954
Dry Cargo/Passenger	0	32643	15478	20021	1114	0	0	69256
Container Ship (Fully Cellular)	0	0	3347	0	0	0	0	3347
General Cargo Ship	0	29966	11283	7467	0	0	0	48717
General Cargo Ship (with Ro-Ro facility)	0	0	0	3457	0	0	0	3457
Heavy Load Carrier	0	0	0	552	0	0	0	552
Heavy Load Carrier, semi submersible	0	0	0	0	1114	0	0	1114
Palletised Cargo Ship	0	1126	0	0	0	0	0	1126
Passenger/Cruise	0	618	847	8545	0	0	0	10011
Refrigerated Cargo Ship	0	932	0	0	0	0	0	932
Fishing	2236	2599	0	0	0	0	0	4835
Factory Stern Trawler	0	635	0	0	0	0	0	635
Stern Trawler	2236	1963	0	0	0	0	0	4200
Miscellaneous	2605	7373	5944	11300	0	0	0	27221
Icebreaker	0	0	0	10273	0	0	0	10273
Icebreaker/Research	0	0	0	1027	0	0	0	1027
Research Survey Vessel	2605	7373	3365	0	0	0	0	13342
Tug	0	0	2579	0	0	0	0	2579
Offshore	0	4488	0	0	0	0	0	4488
Anchor Handling Tug Supply	0	3837	0	0	0	0	0	3837
Offshore Tug/Supply Ship	0	651	0	0	0	0	0	651
Tankers	0	4072	8696	9893	0	0	0	22661
Chemical Tanker	0	2180	0	0	0	0	0	2180
Chemical/Products Tanker	0	0	3483	1579	0	0	0	5062
Crude/Oil Products Tanker	0	0	0	5882	0	0	0	5882
Products Tanker	0	1892	5213	2432	0	0	0	9536
Total	4841	51174	30118	42167	1114	0	0	129414

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Appendix S85. Unique vessel counts for the Laptev Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	0	1	0	0	0
Bulk Carrier	0	0	0	0	0	0	0	0	1	0	0	0
Dry Cargo/Passenger	0	0	0	0	3	0	12	27	27	26	4	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	1	1	1	0	0
General Cargo Ship	0	0	0	0	0	0	11	20	20	21	4	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	2	0	0	0	1	1	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	1	0	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	1	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	1	0	0
Passenger/Cruise	0	0	0	0	1	0	1	3	2	1	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	0	0	0	0	0	0	0	2	2	2	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	1	0	0
Stern Trawler	0	0	0	0	0	0	0	2	2	1	0	0
Miscellaneous	0	0	0	0	0	0	1	6	10	6	2	1
Icebreaker	0	0	0	0	0	0	1	1	1	1	1	1
Icebreaker/Research	0	0	0	0	0	0	0	1	2	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	3	6	5	0	0
Tug	0	0	0	0	0	0	0	1	1	0	1	0
Offshore	0	0	0	0	0	0	0	1	2	2	1	1
Anchor Handling Tug Supply	0	0	0	0	0	0	0	1	1	1	1	1
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	1	0	0
Tankers	0	0	0	0	0	0	4	10	12	6	3	0
Chemical Tanker	0	0	0	0	0	0	0	1	1	1	0	0
Chemical/Products Tanker	0	0	0	0	0	0	1	3	3	0	1	0
Crude/Oil Products Tanker	0	0	0	0	0	0	2	2	2	1	0	0
Products Tanker	0	0	0	0	0	0	1	4	6	4	2	0
Total	0	0	0	0	3	0	17	46	54	42	10	2

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Appendix S86. Transit counts for the Laptev Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	0	3	0	0	0
Bulk Carrier	0	0	0	0	0	0	0	0	3	0	0	0
Dry Cargo/Passenger	0	0	0	0	20	0	44	126	107	59	5	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	2	2	2	0	0
General Cargo Ship	0	0	0	0	0	0	43	107	94	53	5	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	6	0	0	0	2	1	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	1	0	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	2	1	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	1	0	1	0	0
Passenger/Cruise	0	0	0	0	14	0	1	14	6	1	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	0	0	0	0	0	0	0	2	4	4	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	2	0	0
Stern Trawler	0	0	0	0	0	0	0	2	4	2	0	0
Miscellaneous	0	0	0	0	0	0	2	29	42	13	3	1
Icebreaker	0	0	0	0	0	0	2	7	3	3	2	1
Icebreaker/Research	0	0	0	0	0	0	0	1	3	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	9	32	10	0	0
Tug	0	0	0	0	0	0	0	12	4	0	1	0
Offshore	0	0	0	0	0	0	0	1	4	2	1	2
Anchor Handling Tug Supply	0	0	0	0	0	0	0	1	3	1	1	2
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	1	1	0	0
Tankers	0	0	0	0	0	0	7	36	37	11	6	0
Chemical Tanker	0	0	0	0	0	0	0	2	1	1	0	0
Chemical/Products Tanker	0	0	0	0	0	0	3	8	10	0	2	0
Crude/Oil Products Tanker	0	0	0	0	0	0	2	8	3	2	0	0
Products Tanker	0	0	0	0	0	0	2	18	23	8	4	0
Total	0	0	0	0	20	0	53	194	197	89	15	3

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Appendix S87. Operational hours in the Laptev Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	0	100	0	0	0
Bulk Carrier	0	0	0	0	0	0	0	0	100	0	0	0
Dry Cargo/Passenger	0	0	0	0	534	0	624	2656	2337	1483	217	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	93	80	88	0	0
General Cargo Ship	0	0	0	0	0	0	580	2070	1826	1237	217	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	237	0	0	0	48	71	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	38	0	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	69	33	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	62	0	52	0	0
Passenger/Cruise	0	0	0	0	297	0	44	365	277	1	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	27	36	0	0	0
Fishing	0	0	0	0	0	0	0	226	284	247	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	85	0	0
Stern Trawler	0	0	0	0	0	0	0	226	284	162	0	0
Miscellaneous	0	0	0	0	0	0	125	574	1176	789	334	45
Icebreaker	0	0	0	0	0	0	125	199	139	188	232	45
Icebreaker/Research	0	0	0	0	0	0	0	25	93	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	197	876	601	0	0
Tug	0	0	0	0	0	0	0	154	68	0	102	0
Offshore	0	0	0	0	0	0	0	90	187	89	61	80
Anchor Handling Tug Supply	0	0	0	0	0	0	0	90	127	62	61	80
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	60	27	0	0
Tankers	0	0	0	0	0	0	161	770	867	294	188	0
Chemical Tanker	0	0	0	0	0	0	0	99	50	54	0	0
Chemical/Products Tanker	0	0	0	0	0	0	57	167	238	0	73	0
Crude/Oil Products Tanker	0	0	0	0	0	0	88	268	150	76	0	0
Products Tanker	0	0	0	0	0	0	17	235	430	164	116	0
Total	0	0	0	0	534	0	910	4316	4951	2902	801	125

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Appendix S88. Distance travelled (nm) in the Laptev Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	0	954	0	0	0
Bulk Carrier	0	0	0	0	0	0	0	0	954	0	0	0
Dry Cargo/Passenger	0	0	0	0	5264	0	4571	22423	21198	13598	2202	0
Container Ship (Fully Cellular)	0	0	0	0	0	0	0	1113	1104	1130	0	0
General Cargo Ship	0	0	0	0	0	0	4138	16002	15371	11004	2202	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	2301	0	0	0	608	547	0	0
Heavy Load Carrier	0	0	0	0	0	0	0	552	0	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	0	0	0	0	0	765	350	0	0
Palletised Cargo Ship	0	0	0	0	0	0	0	570	0	556	0	0
Passenger/Cruise	0	0	0	0	2963	0	433	3811	2793	11	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	0	375	557	0	0	0
Fishing	0	0	0	0	0	0	0	1398	1999	1438	0	0
Factory Stern Trawler	0	0	0	0	0	0	0	0	0	635	0	0
Stern Trawler	0	0	0	0	0	0	0	1398	1999	803	0	0
Miscellaneous	0	0	0	0	0	0	1017	4708	10704	6561	3640	592
Icebreaker	0	0	0	0	0	0	1017	1904	1885	2363	2512	592
Icebreaker/Research	0	0	0	0	0	0	0	314	713	0	0	0
Research Survey Vessel	0	0	0	0	0	0	0	1620	7524	4198	0	0
Tug	0	0	0	0	0	0	0	870	581	0	1128	0
Offshore	0	0	0	0	0	0	0	654	1697	814	565	757
Anchor Handling Tug Supply	0	0	0	0	0	0	0	654	1205	655	565	757
Offshore Tug/Supply Ship	0	0	0	0	0	0	0	0	492	159	0	0
Tankers	0	0	0	0	0	0	1427	7440	9263	2833	1698	0
Chemical Tanker	0	0	0	0	0	0	0	1093	546	541	0	0
Chemical/Products Tanker	0	0	0	0	0	0	408	1484	2496	0	674	0
Crude/Oil Products Tanker	0	0	0	0	0	0	868	2553	1654	808	0	0
Products Tanker	0	0	0	0	0	0	151	2311	4568	1483	1024	0
Total	0	0	0	0	5264	0	7015	36623	45815	25244	8105	1349

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Appendix S89. Unique vessel counts for the Northwestern Passages by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	11	0	0	11
Bulk Carrier	0	0	0	0	11	0	0	11
Dry Cargo/Passenger	0	2	11	5	0	0	0	18
General Cargo Ship	0	0	8	0	0	0	0	8
General Cargo Ship (with Ro-Ro facility)	0	0	0	1	0	0	0	1
Passenger/Cruise	0	2	3	3	0	0	0	8
Ro-Ro Cargo Ship	0	0	0	1	0	0	0	1
Fishing	0	1	0	0	0	0	0	1
Stern Trawler	0	1	0	0	0	0	0	1
Miscellaneous	6	2	6	1	0	0	0	15
Buoy Tender	0	1	0	0	0	0	0	1
Icebreaker	0	1	4	1	0	0	0	6
Icebreaker/Research	0	0	1	0	0	0	0	1
Pusher Tug	2	0	0	0	0	0	0	2
Research Survey Vessel	0	0	1	0	0	0	0	1
Tug	4	0	0	0	0	0	0	4
Offshore	1	1	0	0	0	0	0	2
Anchor Handling Tug Supply	0	1	0	0	0	0	0	1
Platform Supply Ship	1	0	0	0	0	0	0	1
Tankers	0	0	2	3	1	0	0	6
Chemical Tanker	0	0	1	0	0	0	0	1
Chemical/Products Tanker	0	0	1	3	1	0	0	5
Total	7	6	19	9	12	0	0	53

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S90. Transit counts for the Northwestern Passages by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	60	0	0	60
Bulk Carrier	0	0	0	0	60	0	0	60
Dry Cargo/Passenger	0	30	81	57	0	0	0	168
General Cargo Ship	0	0	39	0	0	0	0	39
General Cargo Ship (with Ro-Ro facility)	0	0	0	4	0	0	0	4
Passenger/Cruise	0	30	42	45	0	0	0	117
Ro-Ro Cargo Ship	0	0	0	8	0	0	0	8
Fishing	0	1	0	0	0	0	0	1
Stern Trawler	0	1	0	0	0	0	0	1
Miscellaneous	78	37	46	9	0	0	0	170
Buoy Tender	0	25	0	0	0	0	0	25
Icebreaker	0	12	21	9	0	0	0	42
Icebreaker/Research	0	0	16	0	0	0	0	16
Pusher Tug	29	0	0	0	0	0	0	29
Research Survey Vessel	0	0	9	0	0	0	0	9
Tug	49	0	0	0	0	0	0	49
Offshore	2	3	0	0	0	0	0	5
Anchor Handling Tug Supply	0	3	0	0	0	0	0	3
Platform Supply Ship	2	0	0	0	0	0	0	2
Tankers	0	0	16	19	4	0	0	39
Chemical Tanker	0	0	7	0	0	0	0	7
Chemical/Products Tanker	0	0	9	19	4	0	0	32
Total	80	71	143	85	64	0	0	443

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S91. Operational hours in the Northwestern Passages by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	480	0	0	480
Bulk Carrier	0	0	0	0	480	0	0	480
Dry Cargo/Passenger	0	403	1465	784	0	0	0	2652
General Cargo Ship	0	0	771	0	0	0	0	771
General Cargo Ship (with Ro-Ro facility)	0	0	0	37	0	0	0	37
Passenger/Cruise	0	403	694	552	0	0	0	1649
Ro-Ro Cargo Ship	0	0	0	195	0	0	0	195
Fishing	0	7	0	0	0	0	0	7
Stern Trawler	0	7	0	0	0	0	0	7
Miscellaneous	1680	922	1629	272	0	0	0	4502
Buoy Tender	0	698	0	0	0	0	0	698
Icebreaker	0	224	674	272	0	0	0	1170
Icebreaker/Research	0	0	736	0	0	0	0	736
Pusher Tug	715	0	0	0	0	0	0	715
Research Survey Vessel	0	0	219	0	0	0	0	219
Tug	965	0	0	0	0	0	0	965
Offshore	5	187	0	0	0	0	0	193
Anchor Handling Tug Supply	0	187	0	0	0	0	0	187
Platform Supply Ship	5	0	0	0	0	0	0	5
Tankers	0	0	286	462	87	0	0	835
Chemical Tanker	0	0	62	0	0	0	0	62
Chemical/Products Tanker	0	0	224	462	87	0	0	773
Total	1685	1519	3380	1517	567	0	0	8669

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Appendix S92. Distance travelled (nm) in the Northwestern Passages by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	0	0	0	3540	0	0	3540
Bulk Carrier	0	0	0	0	3540	0	0	3540
Dry Cargo/Passenger	0	3751	15893	8452	0	0	0	28096
General Cargo Ship	0	0	9160	0	0	0	0	9160
General Cargo Ship (with Ro-Ro facility)	0	0	0	503	0	0	0	503
Passenger/Cruise	0	3751	6733	5700	0	0	0	16184
Ro-Ro Cargo Ship	0	0	0	2250	0	0	0	2250
Fishing	0	75	0	0	0	0	0	75
Stern Trawler	0	75	0	0	0	0	0	75
Miscellaneous	10727	6479	14430	2711	0	0	0	34347
Buoy Tender	0	4301	0	0	0	0	0	4301
Icebreaker	0	2179	7321	2711	0	0	0	12211
Icebreaker/Research	0	0	5316	0	0	0	0	5316
Pusher Tug	4407	0	0	0	0	0	0	4407
Research Survey Vessel	0	0	1792	0	0	0	0	1792
Tug	6320	0	0	0	0	0	0	6320
Offshore	39	1283	0	0	0	0	0	1322
Anchor Handling Tug Supply	0	1283	0	0	0	0	0	1283
Platform Supply Ship	39	0	0	0	0	0	0	39
Tankers	0	0	3361	5605	1119	0	0	10086
Chemical Tanker	0	0	638	0	0	0	0	638
Chemical/Products Tanker	0	0	2724	5605	1119	0	0	9448
Total	10766	11589	33684	16769	4659	0	0	77466

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S93. Unique vessel counts for the Northwestern Passages by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	10	8	2	0	0
Bulk Carrier	0	0	0	0	0	0	0	10	8	2	0	0
Dry Cargo/Passenger	0	0	0	0	0	0	0	12	16	1	0	0
General Cargo Ship	0	0	0	0	0	0	0	3	8	1	0	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	1	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	8	6	0	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	1	1	0	0	0
Fishing	0	0	0	0	0	0	0	1	0	0	0	0
Stern Trawler	0	0	0	0	0	0	0	1	0	0	0	0
Miscellaneous	0	0	0	0	0	0	1	11	12	8	0	0
Buoy Tender	0	0	0	0	0	0	0	1	1	0	0	0
Icebreaker	0	0	0	0	0	0	0	2	4	3	0	0
Icebreaker/Research	0	0	0	0	0	0	0	1	1	1	0	0
Pusher Tug	0	0	0	0	0	0	0	2	2	1	0	0
Research Survey Vessel	0	0	0	0	0	0	0	1	0	0	0	0
Tug	0	0	0	0	0	0	1	4	4	3	0	0
Offshore	0	0	0	0	0	0	0	2	0	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	0	1	0	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	1	0	0	0	0
Tankers	0	0	0	0	0	0	0	3	6	2	0	0
Chemical Tanker	0	0	0	0	0	0	0	0	1	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	3	5	2	0	0
Total	0	0	0	0	0	0	1	39	42	13	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S94. Transit counts for the Northwestern Passages by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	41	17	2	0	0
Bulk Carrier	0	0	0	0	0	0	0	41	17	2	0	0
Dry Cargo/Passenger	0	0	0	0	0	0	0	84	90	1	0	0
General Cargo Ship	0	0	0	0	0	0	0	9	31	1	0	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	4	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	71	50	0	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	4	5	0	0	0
Fishing	0	0	0	0	0	0	0	1	0	0	0	0
Stern Trawler	0	0	0	0	0	0	0	1	0	0	0	0
Miscellaneous	0	0	0	0	0	0	2	74	80	16	0	0
Buoy Tender	0	0	0	0	0	0	0	16	10	0	0	0
Icebreaker	0	0	0	0	0	0	0	7	31	5	0	0
Icebreaker/Research	0	0	0	0	0	0	0	7	5	4	0	0
Pusher Tug	0	0	0	0	0	0	0	14	13	2	0	0
Research Survey Vessel	0	0	0	0	0	0	0	9	0	0	0	0
Tug	0	0	0	0	0	0	2	21	21	5	0	0
Offshore	0	0	0	0	0	0	0	5	0	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	0	3	0	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	2	0	0	0	0
Tankers	0	0	0	0	0	0	0	8	26	5	0	0
Chemical Tanker	0	0	0	0	0	0	0	0	7	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	8	19	5	0	0
Total	0	0	0	0	0	0	2	213	213	24	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S95. Operational hours in the Northwestern Passages by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	314	137	28	0	0
Bulk Carrier	0	0	0	0	0	0	0	314	137	28	0	0
Dry Cargo/Passenger	0	0	0	0	0	0	0	1162	1482	8	0	0
General Cargo Ship	0	0	0	0	0	0	0	95	668	8	0	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	37	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	961	688	0	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	106	89	0	0	0
Fishing	0	0	0	0	0	0	0	7	0	0	0	0
Stern Trawler	0	0	0	0	0	0	0	7	0	0	0	0
Miscellaneous	0	0	0	0	0	0	53	1620	2227	602	0	0
Buoy Tender	0	0	0	0	0	0	0	301	397	0	0	0
Icebreaker	0	0	0	0	0	0	0	188	639	343	0	0
Icebreaker/Research	0	0	0	0	0	0	0	259	347	131	0	0
Pusher Tug	0	0	0	0	0	0	0	277	403	36	0	0
Research Survey Vessel	0	0	0	0	0	0	0	219	0	0	0	0
Tug	0	0	0	0	0	0	53	377	442	93	0	0
Offshore	0	0	0	0	0	0	0	193	0	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	0	187	0	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	5	0	0	0	0
Tankers	0	0	0	0	0	0	0	116	600	119	0	0
Chemical Tanker	0	0	0	0	0	0	0	0	62	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	116	538	119	0	0
Total	0	0	0	0	0	0	53	3412	4446	758	0	0

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Appendix S96. Distance travelled (nm) in the Northwestern Passages by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	0	0	0	0	0	0	0	2129	1166	245	0	0
Bulk Carrier	0	0	0	0	0	0	0	2129	1166	245	0	0
Dry Cargo/Passenger	0	0	0	0	0	0	0	11214	16759	124	0	0
General Cargo Ship	0	0	0	0	0	0	0	1081	7955	124	0	0
General Cargo Ship (with Ro-Ro facility)	0	0	0	0	0	0	0	0	503	0	0	0
Passenger/Cruise	0	0	0	0	0	0	0	9089	7095	0	0	0
Ro-Ro Cargo Ship	0	0	0	0	0	0	0	1044	1206	0	0	0
Fishing	0	0	0	0	0	0	0	75	0	0	0	0
Stern Trawler	0	0	0	0	0	0	0	75	0	0	0	0
Miscellaneous	0	0	0	0	0	0	315	11670	16746	5616	0	0
Buoy Tender	0	0	0	0	0	0	0	2200	2100	0	0	0
Icebreaker	0	0	0	0	0	0	0	1728	6551	3932	0	0
Icebreaker/Research	0	0	0	0	0	0	0	1715	2735	867	0	0
Pusher Tug	0	0	0	0	0	0	0	1829	2353	226	0	0
Research Survey Vessel	0	0	0	0	0	0	0	1792	0	0	0	0
Tug	0	0	0	0	0	0	315	2406	3007	592	0	0
Offshore	0	0	0	0	0	0	0	1322	0	0	0	0
Anchor Handling Tug Supply	0	0	0	0	0	0	0	1283	0	0	0	0
Platform Supply Ship	0	0	0	0	0	0	0	39	0	0	0	0
Tankers	0	0	0	0	0	0	0	1485	7056	1545	0	0
Chemical Tanker	0	0	0	0	0	0	0	0	638	0	0	0
Chemical/Products Tanker	0	0	0	0	0	0	0	1485	6418	1545	0	0
Total	0	0	0	0	0	0	315	27895	41726	7530	0	0

Appendix S97. Unique vessel counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	1	10	5	99	202	72	9	398
Bulk Carrier	0	7	1	93	201	70	9	381
Bulk Carrier, Self-discharging	0	0	0	6	1	1	0	8
Cement Carrier	1	2	4	0	0	0	0	7
Limestone Carrier	0	1	0	0	0	0	0	1
Ore Carrier	0	0	0	0	0	1	0	1
Dry Cargo/Passenger	92	367	107	65	22	13	3	669
Container Ship (Fully Cellular)	0	0	7	1	0	0	0	8
Deck Cargo Ship	4	0	0	0	0	0	0	4
General Cargo Ship	21	287	76	29	0	0	0	413
General Cargo Ship (with Ro-Ro facility)	0	0	0	2	0	0	0	2
General Cargo Ship, Self-discharging	0	2	0	0	0	0	0	2
General Cargo/Passenger Ship	3	3	2	0	0	0	0	8
Heavy Load Carrier	0	0	0	2	0	0	0	2
Heavy Load Carrier, semi submersible	0	0	0	2	3	1	0	6
Landing Craft	2	0	0	0	0	0	0	2
Open Hatch Cargo Ship	0	0	0	1	4	0	0	5
Palletised Cargo Ship	2	8	0	0	0	0	0	10
Passenger Ship	27	2	0	0	0	0	0	29
Passenger/Cruise	5	6	5	12	15	12	3	58
Passenger/Ro-Ro Ship (Vehicles)	28	23	4	10	0	0	0	65
Refrigerated Cargo Ship	0	32	10	0	0	0	0	42
Ro-Ro Cargo Ship	0	4	3	6	0	0	0	13

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Appendix S97. Unique vessel counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Fishing	298	275	12	0	0	0	0	585
Factory Stern Trawler	2	59	9	0	0	0	0	70
Fish Carrier	4	1	0	0	0	0	0	5
Fish Factory Ship	0	2	0	0	0	0	0	2
Fish Farm Support Vessel	2	3	0	0	0	0	0	5
Fishery Patrol Vessel	1	1	0	0	0	0	0	2
Fishery Research Vessel	4	2	0	0	0	0	0	6
Fishing Vessel	168	67	0	0	0	0	0	235
Live Fish Carrier (Well Boat)	20	12	0	0	0	0	0	32
Seal Catcher	4	0	0	0	0	0	0	4
Stern Trawler	79	109	2	0	0	0	0	190
Trawler	14	19	1	0	0	0	0	34
Miscellaneous	80	52	19	10	2	0	0	163
Buoy & Lighthouse Tender	3	0	0	0	0	0	0	3
Cable Layer	2	0	1	1	0	0	0	4
Crane Vessel	0	0	0	0	1	0	0	1
Cutter Suction Dredger	0	0	1	0	0	0	0	1
Hopper, Motor	1	5	0	0	0	0	0	6
Icebreaker	0	4	5	1	0	0	0	10
Icebreaker/Research	0	0	0	2	0	0	0	2
Patrol Vessel	5	4	1	0	0	0	0	10
Pollution Control Vessel	3	0	0	0	0	0	0	3
Research Survey Vessel	8	30	8	3	0	0	0	49
Salvage Ship	1	3	0	0	0	0	0	4
Search & Rescue Vessel	1	0	0	0	0	0	0	1
Suction Dredger	1	0	0	0	0	0	0	1
Suction Hopper Dredger	1	0	0	0	0	0	0	1
Supply Tender	1	0	0	0	0	0	0	1
Trailing Suction Hopper Dredger	0	4	3	3	1	0	0	11
Training Ship	1	0	0	0	0	0	0	1
Tug	47	1	0	0	0	0	0	48
Utility Vessel	3	0	0	0	0	0	0	3
Waste Disposal Vessel	2	0	0	0	0	0	0	2
Work/Repair Vessel	0	1	0	0	0	0	0	1

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S97. Unique vessel counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	12	45	30	7	0	1	2	97
Anchor Handling Tug Supply	1	16	19	0	0	0	0	36
Crew/Supply Vessel	1	0	0	0	0	0	0	1
Diving Support Vessel	0	0	1	1	0	0	0	2
Drilling Ship	0	1	0	0	0	0	0	1
FPSO, Oil	0	0	0	0	0	0	1	1
FSO, Oil	0	0	0	0	0	0	1	1
Offshore Support Vessel	0	4	4	4	0	0	0	12
Offshore Tug/Supply Ship	0	5	1	0	0	0	0	6
Pipe Burying Vessel	0	0	0	1	0	0	0	1
Pipe Layer	0	0	1	1	0	1	0	3
Platform Supply Ship	3	18	4	0	0	0	0	25
Standby Safety Vessel	7	1	0	0	0	0	0	8
Tankers	2	41	8	55	44	54	14	218
Asphalt/Bitumen Tanker	0	2	0	0	0	0	0	2
Chemical Tanker	1	4	0	0	0	0	0	5
Chemical/Products Tanker	0	32	6	40	28	0	0	106
Crude Oil Tanker	0	0	0	0	1	24	0	25
Crude/Oil Products Tanker	0	0	0	1	2	23	0	26
LNG Tanker	0	0	0	0	0	3	14	17
LPG Tanker	0	0	0	7	4	0	0	11
Products Tanker	1	3	2	7	7	1	0	21
Shuttle Tanker	0	0	0	0	2	3	0	5
Total	485	790	181	236	270	140	28	2130

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Appendix S98. Transit counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	6	252	183	350	636	216	33	1676
Bulk Carrier	0	198	3	299	620	208	33	1361
Bulk Carrier, Self-discharging	0	0	0	51	16	2	0	69
Cement Carrier	6	39	180	0	0	0	0	225
Limestone Carrier	0	15	0	0	0	0	0	15
Ore Carrier	0	0	0	0	0	6	0	6
Dry Cargo/Passenger	13141	12472	2209	1576	150	125	39	29712
Container Ship (Fully Cellular)	0	0	152	1	0	0	0	153
Deck Cargo Ship	438	0	0	0	0	0	0	438
General Cargo Ship	1752	5315	296	105	0	0	0	7468
General Cargo Ship (with Ro-Ro facility)	0	0	0	4	0	0	0	4
General Cargo Ship, Self-discharging	0	776	0	0	0	0	0	776
General Cargo/Passenger Ship	154	141	143	0	0	0	0	438
Heavy Load Carrier	0	0	0	3	0	0	0	3
Heavy Load Carrier, semi submersible	0	0	0	5	5	3	0	13
Landing Craft	57	0	0	0	0	0	0	57
Open Hatch Cargo Ship	0	0	0	2	11	0	0	13
Palletised Cargo Ship	236	671	0	0	0	0	0	907
Passenger Ship	5534	15	0	0	0	0	0	5549
Passenger/Cruise	59	38	59	90	134	122	39	541
Passenger/Ro-Ro Ship (Vehicles)	4911	4023	1383	1339	0	0	0	11656
Refrigerated Cargo Ship	0	1308	77	0	0	0	0	1385
Ro-Ro Cargo Ship	0	185	99	27	0	0	0	311

Appendix S98. Transit counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Fishing	13311	5517	188	0	0	0	0	19016
Factory Stern Trawler	64	1041	182	0	0	0	0	1287
Fish Carrier	14	29	0	0	0	0	0	43
Fish Factory Ship	0	25	0	0	0	0	0	25
Fish Farm Support Vessel	197	271	0	0	0	0	0	468
Fishery Patrol Vessel	4	3	0	0	0	0	0	7
Fishery Research Vessel	102	5	0	0	0	0	0	107
Fishing Vessel	7719	1028	0	0	0	0	0	8747
Live Fish Carrier (Well Boat)	2366	809	0	0	0	0	0	3175
Seal Catcher	75	0	0	0	0	0	0	75
Stern Trawler	2479	2103	5	0	0	0	0	4587
Trawler	291	203	1	0	0	0	0	495
Miscellaneous	2137	637	180	34	5	0	0	2993
Buoy & Lighthouse Tender	98	0	0	0	0	0	0	98
Cable Layer	75	0	33	2	0	0	0	110
Crane Vessel	0	0	0	0	3	0	0	3
Cutter Suction Dredger	0	0	4	0	0	0	0	4
Hopper, Motor	15	17	0	0	0	0	0	32
Icebreaker	0	6	7	4	0	0	0	17
Icebreaker/Research	0	0	0	12	0	0	0	12
Patrol Vessel	464	350	55	0	0	0	0	869
Pollution Control Vessel	227	0	0	0	0	0	0	227
Research Survey Vessel	36	241	74	10	0	0	0	361
Salvage Ship	47	6	0	0	0	0	0	53
Search & Rescue Vessel	22	0	0	0	0	0	0	22
Suction Dredger	20	0	0	0	0	0	0	20
Suction Hopper Dredger	3	0	0	0	0	0	0	3
Supply Tender	69	0	0	0	0	0	0	69
Trailing Suction Hopper Dredger	0	8	7	6	2	0	0	23
Training Ship	2	0	0	0	0	0	0	2
Tug	797	3	0	0	0	0	0	800
Utility Vessel	40	0	0	0	0	0	0	40
Waste Disposal Vessel	222	0	0	0	0	0	0	222
Work/Repair Vessel	0	6	0	0	0	0	0	6

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Appendix S98. Transit counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	135	958	570	107	0	3	2	1775
Anchor Handling Tug Supply	38	140	278	0	0	0	0	456
Crew/Supply Vessel	4	0	0	0	0	0	0	4
Diving Support Vessel	0	0	30	4	0	0	0	34
Drilling Ship	0	3	0	0	0	0	0	3
FPSO, Oil	0	0	0	0	0	0	1	1
FSO, Oil	0	0	0	0	0	0	1	1
Offshore Support Vessel	0	24	34	35	0	0	0	93
Offshore Tug/Supply Ship	0	157	1	0	0	0	0	158
Pipe Burying Vessel	0	0	0	55	0	0	0	55
Pipe Layer	0	0	17	13	0	3	0	33
Platform Supply Ship	26	573	210	0	0	0	0	809
Standby Safety Vessel	67	61	0	0	0	0	0	128
Tankers	132	541	106	541	158	156	146	1780
Asphalt/Bitumen Tanker	0	8	0	0	0	0	0	8
Chemical Tanker	14	24	0	0	0	0	0	38
Chemical/Products Tanker	0	362	94	464	83	0	0	1003
Crude Oil Tanker	0	0	0	0	3	71	0	74
Crude/Oil Products Tanker	0	0	0	16	8	67	0	91
LNG Tanker	0	0	0	0	0	10	146	156
LPG Tanker	0	0	0	25	17	0	0	42
Products Tanker	118	147	12	36	16	2	0	331
Shuttle Tanker	0	0	0	0	31	6	0	37
Total	28862	20377	3436	2608	949	500	220	56952

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S99. Operational hours in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	111	6091	2127	11893	23283	5228	581	49314
Bulk Carrier	0	5282	68	11240	22982	5158	581	45311
Bulk Carrier, Self-discharging	0	0	0	653	301	22	0	977
Cement Carrier	111	388	2059	0	0	0	0	2558
Limestone Carrier	0	421	0	0	0	0	0	421
Ore Carrier	0	0	0	0	0	47	0	47
Dry Cargo/Passenger	81637	180489	37775	30950	2506	1752	666	335775
Container Ship (Fully Cellular)	0	0	1579	8	0	0	0	1588
Deck Cargo Ship	4962	0	0	0	0	0	0	4962
General Cargo Ship	21940	93310	10421	3699	0	0	0	129369
General Cargo Ship (with Ro-Ro facility)	0	0	0	162	0	0	0	162
General Cargo Ship, Self-discharging	0	6179	0	0	0	0	0	6179
General Cargo/Passenger Ship	968	2869	2813	0	0	0	0	6650
Heavy Load Carrier	0	0	0	132	0	0	0	132
Heavy Load Carrier, semi submersible	0	0	0	160	183	97	0	440
Landing Craft	1191	0	0	0	0	0	0	1191
Open Hatch Cargo Ship	0	0	0	72	275	0	0	347
Palletised Cargo Ship	1585	11527	0	0	0	0	0	13112
Passenger Ship	21439	94	0	0	0	0	0	21533
Passenger/Cruise	793	347	823	1245	2048	1655	666	7578
Passenger/Ro-Ro Ship (Vehicles)	28759	44607	19654	25050	0	0	0	118071
Refrigerated Cargo Ship	0	19228	1755	0	0	0	0	20983
Ro-Ro Cargo Ship	0	2327	728	423	0	0	0	3478

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S99. Operational hours in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Fishing	266653	269646	9764	0	0	0	0	546063
Factory Stern Trawler	8905	73980	9218	0	0	0	0	92102
Fish Carrier	556	1528	0	0	0	0	0	2084
Fish Factory Ship	0	430	0	0	0	0	0	430
Fish Farm Support Vessel	803	4324	0	0	0	0	0	5127
Fishery Patrol Vessel	115	68	0	0	0	0	0	183
Fishery Research Vessel	1957	331	0	0	0	0	0	2289
Fishing Vessel	130472	21912	0	0	0	0	0	152385
Live Fish Carrier (Well Boat)	32063	8808	0	0	0	0	0	40871
Seal Catcher	1031	0	0	0	0	0	0	1031
Stern Trawler	84899	152180	504	0	0	0	0	237583
Trawler	5850	6085	43	0	0	0	0	11979
Miscellaneous	25629	16006	8198	3305	152	0	0	53290
Buoy & Lighthouse Tender	730	0	0	0	0	0	0	730
Cable Layer	801	0	2869	19	0	0	0	3688
Crane Vessel	0	0	0	0	92	0	0	92
Cutter Suction Dredger	0	0	87	0	0	0	0	87
Hopper, Motor	103	517	0	0	0	0	0	620
Icebreaker	0	269	280	67	0	0	0	615
Icebreaker/Research	0	0	0	385	0	0	0	385
Patrol Vessel	5407	7400	799	0	0	0	0	13606
Pollution Control Vessel	1226	0	0	0	0	0	0	1226
Research Survey Vessel	2517	6896	3890	2611	0	0	0	15913
Salvage Ship	259	250	0	0	0	0	0	509
Search & Rescue Vessel	125	0	0	0	0	0	0	125
Suction Dredger	144	0	0	0	0	0	0	144
Suction Hopper Dredger	16	0	0	0	0	0	0	16
Supply Tender	434	0	0	0	0	0	0	434
Trailing Suction Hopper Dredger	0	403	274	224	60	0	0	961
Training Ship	66	0	0	0	0	0	0	66
Tug	10535	101	0	0	0	0	0	10636
Utility Vessel	358	0	0	0	0	0	0	358
Waste Disposal Vessel	2908	0	0	0	0	0	0	2908
Work/Repair Vessel	0	171	0	0	0	0	0	171

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Appendix S99. Operational hours in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	1811	12524	5854	976	0	10	48	21224
Anchor Handling Tug Supply	178	3369	3804	0	0	0	0	7352
Crew/Supply Vessel	82	0	0	0	0	0	0	82
Diving Support Vessel	0	0	277	64	0	0	0	341
Drilling Ship	0	115	0	0	0	0	0	115
FPSO, Oil	0	0	0	0	0	0	1	1
FSO, Oil	0	0	0	0	0	0	48	48
Offshore Support Vessel	0	234	340	204	0	0	0	778
Offshore Tug/Supply Ship	0	3392	1	0	0	0	0	3393
Pipe Burying Vessel	0	0	0	457	0	0	0	457
Pipe Layer	0	0	72	252	0	10	0	334
Platform Supply Ship	244	5006	1360	0	0	0	0	6611
Standby Safety Vessel	1306	408	0	0	0	0	0	1714
Tankers	2268	10057	2632	12988	5729	6054	5612	45339
Asphalt/Bitumen Tanker	0	124	0	0	0	0	0	124
Chemical Tanker	204	483	0	0	0	0	0	688
Chemical/Products Tanker	0	5752	1958	10765	3218	0	0	21694
Crude Oil Tanker	0	0	0	0	51	2733	0	2784
Crude/Oil Products Tanker	0	0	0	563	141	2716	0	3419
LNG Tanker	0	0	0	0	0	333	5612	5946
LPG Tanker	0	0	0	518	475	0	0	993
Products Tanker	2063	3698	674	1142	596	71	0	8245
Shuttle Tanker	0	0	0	0	1246	201	0	1448
Total	378109	494814	66349	60112	31670	13044	6908	1051006

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Appendix S100. Distance travelled (nm) in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	1017	58440	24984	125083	254535	52871	6267	523196
Bulk Carrier	0	50417	644	117476	251961	52059	6267	478824
Bulk Carrier, Self-discharging	0	0	0	7607	2574	242	0	10423
Cement Carrier	1017	4111	24340	0	0	0	0	29468
Limestone Carrier	0	3912	0	0	0	0	0	3912
Ore Carrier	0	0	0	0	0	570	0	570
Dry Cargo/Passenger	625600	1341041	356033	311696	35885	26064	11691	2708010
Container Ship (Fully Cellular)	0	0	19908	82	0	0	0	19990
Deck Cargo Ship	25175	0	0	0	0	0	0	25175
General Cargo Ship	166451	827394	108676	41934	0	0	0	1144455
General Cargo Ship (with Ro-Ro facility)	0	0	0	1984	0	0	0	1984
General Cargo Ship, Self-discharging	0	49716	0	0	0	0	0	49716
General Cargo/Passenger Ship	6017	28207	27174	0	0	0	0	61397
Heavy Load Carrier	0	0	0	1431	0	0	0	1431
Heavy Load Carrier, semi submersible	0	0	0	1859	1849	919	0	4627
Landing Craft	8931	0	0	0	0	0	0	8931
Open Hatch Cargo Ship	0	0	0	958	3152	0	0	4111
Palletised Cargo Ship	10513	86267	0	0	0	0	0	96780
Passenger Ship	270015	827	0	0	0	0	0	270841
Passenger/Cruise	5691	3744	9345	16841	30884	25146	11691	103340
Passenger/Ro-Ro Ship (Vehicles)	132807	133467	161741	241427	0	0	0	669442
Refrigerated Cargo Ship	0	189078	20005	0	0	0	0	209083
Ro-Ro Cargo Ship	0	22342	9183	5180	0	0	0	36706

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Appendix S100. Distance travelled (nm) in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Fishing	1438460	1501516	62512	0	0	0	0	3002488
Factory Stern Trawler	44498	393828	58452	0	0	0	0	496778
Fish Carrier	4118	11236	0	0	0	0	0	15354
Fish Factory Ship	0	3049	0	0	0	0	0	3049
Fish Farm Support Vessel	4298	33555	0	0	0	0	0	37853
Fishery Patrol Vessel	849	193	0	0	0	0	0	1042
Fishery Research Vessel	14042	2558	0	0	0	0	0	16600
Fishing Vessel	680571	147831	0	0	0	0	0	828402
Live Fish Carrier (Well Boat)	237530	71245	0	0	0	0	0	308775
Seal Catcher	8793	0	0	0	0	0	0	8793
Stern Trawler	404001	795509	3809	0	0	0	0	1203320
Trawler	39760	42513	250	0	0	0	0	82523
Miscellaneous	157245	111027	45736	20896	1790	0	0	336694
Buoy & Lighthouse Tender	4436	0	0	0	0	0	0	4436
Cable Layer	6496	0	10798	173	0	0	0	17467
Crane Vessel	0	0	0	0	842	0	0	842
Cutter Suction Dredger	0	0	710	0	0	0	0	710
Hopper, Motor	434	4360	0	0	0	0	0	4795
Icebreaker	0	2821	3619	789	0	0	0	7229
Icebreaker/Research	0	0	0	4367	0	0	0	4367
Patrol Vessel	29660	43654	6414	0	0	0	0	79728
Pollution Control Vessel	7660	0	0	0	0	0	0	7660
Research Survey Vessel	15446	52354	21388	12729	0	0	0	101917
Salvage Ship	1441	1556	0	0	0	0	0	2998
Search & Rescue Vessel	795	0	0	0	0	0	0	795
Suction Dredger	1044	0	0	0	0	0	0	1044
Suction Hopper Dredger	127	0	0	0	0	0	0	127
Supply Tender	3164	0	0	0	0	0	0	3164
Trailing Suction Hopper Dredger	0	3696	2807	2839	948	0	0	10290
Training Ship	488	0	0	0	0	0	0	488
Tug	58260	920	0	0	0	0	0	59180
Utility Vessel	2615	0	0	0	0	0	0	2615
Waste Disposal Vessel	25180	0	0	0	0	0	0	25180
Work/Repair Vessel	0	1665	0	0	0	0	0	1665

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Appendix S100. Distance travelled (nm) in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Offshore	11461	93175	50415	10608	0	103	471	166232
Anchor Handling Tug Supply	825	22437	30848	0	0	0	0	54110
Crew/Supply Vessel	801	0	0	0	0	0	0	801
Diving Support Vessel	0	0	2903	906	0	0	0	3809
Drilling Ship	0	863	0	0	0	0	0	863
FPSO, Oil	0	0	0	0	0	0	9	9
FSO, Oil	0	0	0	0	0	0	461	461
Offshore Support Vessel	0	2450	3698	2382	0	0	0	8530
Offshore Tug/Supply Ship	0	20154	10	0	0	0	0	20164
Pipe Burying Vessel	0	0	0	4871	0	0	0	4871
Pipe Layer	0	0	740	2449	0	103	0	3291
Platform Supply Ship	1546	45709	12215	0	0	0	0	59470
Standby Safety Vessel	8288	1562	0	0	0	0	0	9850
Tankers	17935	95732	25604	155778	62000	65798	67642	490489
Asphalt/Bitumen Tanker	0	1399	0	0	0	0	0	1399
Chemical Tanker	1970	5274	0	0	0	0	0	7244
Chemical/Products Tanker	0	59647	20669	128725	35164	0	0	244205
Crude Oil Tanker	0	0	0	0	500	29952	0	30452
Crude/Oil Products Tanker	0	0	0	6250	1553	28195	0	35998
LNG Tanker	0	0	0	0	0	4926	67642	72568
LPG Tanker	0	0	0	7018	6638	0	0	13655
Products Tanker	15966	29412	4935	13785	6674	904	0	71675
Shuttle Tanker	0	0	0	0	11472	1820	0	13293
Total	2251718	3200930	565283	624061	354211	144836	86069	7227109

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Appendix S101. Unique vessel counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	66	61	62	58	66	55	72	62	62	70	66	73
Bulk Carrier	59	53	60	52	63	51	67	54	54	65	59	66
Bulk Carrier, Self-discharging	4	3	0	2	1	1	2	3	2	1	1	3
Cement Carrier	2	4	1	4	2	3	3	4	4	3	4	3
Limestone Carrier	0	1	1	0	0	0	0	1	1	1	1	1
Ore Carrier	1	0	0	0	0	0	0	0	1	0	1	0
Dry Cargo/Passenger	220	217	245	234	261	285	296	279	277	276	244	241
Container Ship (Fully Cellular)	3	4	3	4	4	3	4	4	4	4	4	5
Deck Cargo Ship	3	3	3	3	3	3	2	2	2	1	2	3
General Cargo Ship	117	110	122	121	126	133	140	134	141	155	131	129
General Cargo Ship (with Ro-Ro facility)	0	0	0	1	1	1	1	0	0	0	1	0
General Cargo Ship, Self-discharging	2	2	2	2	2	2	2	2	2	2	2	2
General Cargo/Passenger Ship	3	4	4	3	3	5	5	5	5	3	3	3
Heavy Load Carrier	0	0	0	0	0	0	1	1	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	1	0	0	1	0	2	2	0	0
Landing Craft	0	1	0	1	1	1	1	1	1	1	1	0
Open Hatch Cargo Ship	0	0	0	1	1	0	2	2	1	0	0	0
Palletised Cargo Ship	6	7	7	6	6	7	8	9	9	8	8	7
Passenger Ship	16	15	17	18	21	19	17	18	20	17	19	19
Passenger/Cruise	0	3	9	1	14	34	33	24	10	4	2	0
Passenger/Ro-Ro Ship (Vehicles)	46	47	47	45	53	51	49	52	52	50	43	49
Refrigerated Cargo Ship	19	19	25	23	21	23	27	21	22	26	25	22
Ro-Ro Cargo Ship	5	2	6	4	5	3	3	4	5	3	3	2

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Appendix S101. Unique vessel counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Fishing	306	270	353	278	267	265	227	271	279	272	273	219
Factory Stern Trawler	36	29	40	30	25	37	39	50	50	47	28	34
Fish Carrier	1	0	1	2	2	2	2	1	2	2	3	2
Fish Factory Ship	1	0	2	2	1	1	0	0	0	1	2	2
Fish Farm Support Vessel	3	4	3	2	3	4	3	3	4	5	4	5
Fishery Patrol Vessel	0	0	0	0	0	1	1	0	0	0	0	0
Fishery Research Vessel	2	1	2	2	4	2	2	3	2	2	1	1
Fishing Vessel	135	109	140	100	102	98	69	94	98	93	115	79
Live Fish Carrier (Well Boat)	16	15	18	19	24	24	19	20	18	21	20	18
Seal Catcher	4	1	3	2	3	3	2	3	1	2	2	2
Stern Trawler	92	101	126	112	99	89	86	87	90	90	87	69
Trawler	16	10	18	7	4	4	4	10	14	9	11	7
Miscellaneous	33	30	40	43	47	57	73	66	58	73	51	37
Buoy & Lighthouse Tender	0	0	0	0	0	2	1	2	3	1	0	0
Cable Layer	1	1	2	3	4	3	3	3	3	2	2	2
Crane Vessel	0	0	0	0	0	0	0	1	0	1	0	0
Cutter Suction Dredger	0	0	0	0	0	0	1	0	0	1	0	0
Hopper, Motor	0	1	0	2	0	0	3	2	1	3	3	2
Icebreaker	0	0	2	0	0	2	1	2	1	3	1	1
Icebreaker/Research	0	0	0	0	2	0	1	1	0	2	0	0
Patrol Vessel	7	7	9	7	8	7	6	7	6	8	7	7
Pollution Control Vessel	2	3	3	3	3	2	2	3	3	2	3	3
Research Survey Vessel	5	4	6	8	8	21	21	18	16	17	5	3
Salvage Ship	2	1	2	2	1	0	1	0	0	1	2	1
Search & Rescue Vessel	1	1	1	0	0	1	1	1	0	1	1	1
Suction Dredger	1	0	1	1	0	0	1	1	0	1	1	0
Suction Hopper Dredger	0	0	0	0	1	0	0	0	1	1	0	0
Supply Tender	0	0	0	1	1	0	1	1	1	1	1	1
Trailing Suction Hopper Dredger	0	0	0	0	0	0	10	1	3	7	1	0
Training Ship	0	1	0	0	0	1	0	0	0	0	0	0
Tug	12	10	13	14	17	16	18	21	17	17	20	13
Utility Vessel	0	0	0	0	0	0	1	0	2	1	2	2
Waste Disposal Vessel	2	1	1	1	1	1	1	1	1	2	2	1
Work/Repair Vessel	0	0	0	1	1	1	0	1	0	1	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S101. Unique vessel counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	9	14	18	28	36	29	28	24	34	30	25	22
Anchor Handling Tug Supply	4	5	6	11	16	8	9	4	7	10	10	9
Crew/Supply Vessel	0	0	0	0	0	0	1	0	0	1	0	0
Diving Support Vessel	0	0	0	1	2	1	1	1	1	0	0	0
Drilling Ship	0	0	0	0	0	0	0	1	1	1	0	0
FPSO, Oil	0	0	0	0	0	0	1	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	0	0	0	1
Offshore Support Vessel	1	1	1	2	1	2	4	2	1	3	3	2
Offshore Tug/Supply Ship	1	2	3	2	1	4	3	3	3	3	1	1
Pipe Burying Vessel	1	1	0	0	0	0	0	1	1	1	1	1
Pipe Layer	0	0	0	2	2	2	1	1	2	0	0	0
Platform Supply Ship	1	2	5	8	12	8	4	9	14	7	8	7
Standby Safety Vessel	1	3	3	2	2	4	4	2	4	4	2	1
Tankers	54	50	53	53	50	48	58	64	57	52	48	50
Asphalt/Bitumen Tanker	0	1	1	0	1	1	0	1	0	0	0	0
Chemical Tanker	1	2	2	1	1	1	1	2	1	2	1	0
Chemical/Products Tanker	27	26	23	26	27	26	31	36	29	23	19	24
Crude Oil Tanker	5	5	4	3	3	3	3	3	4	3	5	3
Crude/Oil Products Tanker	4	2	4	6	4	5	4	3	5	5	4	5
LNG Tanker	7	5	7	6	6	7	6	7	7	8	7	8
LPG Tanker	3	3	4	2	1	1	3	1	2	2	1	1
Products Tanker	6	5	7	7	5	3	8	8	6	7	9	7
Shuttle Tanker	1	1	1	2	2	1	2	3	3	2	2	2
Total	688	642	771	694	727	739	754	766	767	773	707	642

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Appendix S102. Transit counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	132	137	145	124	159	127	151	145	161	158	138	152
Bulk Carrier	107	109	129	102	135	101	124	108	127	133	111	125
Bulk Carrier, Self-discharging	6	6	0	8	6	9	8	11	6	2	2	6
Cement Carrier	16	18	14	14	18	17	19	25	23	21	21	20
Limestone Carrier	0	4	2	0	0	0	0	1	3	2	3	1
Ore Carrier	3	0	0	0	0	0	0	0	2	0	1	0
Dry Cargo/Passenger	2250	2007	2446	2339	2616	2798	2876	2742	2553	2647	2405	2332
Container Ship (Fully Cellular)	15	11	12	14	17	10	14	10	10	13	12	17
Deck Cargo Ship	27	68	77	53	41	37	22	27	26	24	21	19
General Cargo Ship	479	449	524	537	644	746	703	806	750	774	657	564
General Cargo Ship (with Ro-Ro facility)	0	0	0	1	1	1	1	0	0	0	1	0
General Cargo Ship, Self-discharging	64	66	58	56	66	69	70	72	79	71	57	60
General Cargo/Passenger Ship	27	27	42	34	36	49	53	42	44	32	30	34
Heavy Load Carrier	0	0	0	0	0	0	1	1	1	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	3	0	0	3	0	5	2	0	0
Landing Craft	0	1	0	16	8	9	2	2	5	12	4	0
Open Hatch Cargo Ship	0	0	0	2	2	0	6	3	1	0	0	0
Palletised Cargo Ship	69	65	70	73	63	80	86	85	85	90	92	65
Passenger Ship	392	333	433	425	504	459	540	488	460	519	473	523
Passenger/Cruise	0	10	43	3	54	177	137	78	24	13	14	0
Passenger/Ro-Ro Ship (Vehicles)	1062	863	1012	953	1030	1005	1066	999	925	944	909	933
Refrigerated Cargo Ship	84	89	128	144	127	130	145	102	109	130	114	108
Ro-Ro Cargo Ship	31	25	47	25	23	26	27	27	29	23	21	9

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S102. Transit counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Fishing	1950	1946	2926	1939	1692	1583	1177	1433	1407	1372	1500	920
Factory Stern Trawler	72	110	204	163	68	122	128	146	190	125	58	71
Fish Carrier	1	0	1	2	3	6	6	5	12	2	5	3
Fish Factory Ship	2	0	4	6	2	1	0	0	0	1	3	6
Fish Farm Support Vessel	20	25	40	30	27	46	36	34	52	63	61	40
Fishery Patrol Vessel	0	0	0	0	0	3	4	0	0	0	0	0
Fishery Research Vessel	5	8	16	10	10	12	9	5	9	19	2	4
Fishing Vessel	1205	1044	1505	873	720	662	413	564	473	441	720	300
Live Fish Carrier (Well Boat)	197	173	199	226	339	309	247	299	297	373	300	259
Seal Catcher	5	5	10	4	7	8	9	9	2	5	7	6
Stern Trawler	386	525	821	580	491	400	303	345	327	314	296	205
Trawler	57	56	126	45	25	14	22	26	45	29	48	26
Miscellaneous	241	186	294	264	238	254	279	247	251	309	269	220
Buoy & Lighthouse Tender	0	0	0	0	0	7	25	29	21	16	0	0
Cable Layer	7	1	11	7	10	14	16	17	10	7	6	6
Crane Vessel	0	0	0	0	0	0	0	2	0	1	0	0
Cutter Suction Dredger	0	0	0	0	0	0	2	0	0	2	0	0
Hopper, Motor	0	4	0	8	0	0	5	2	3	3	4	3
Icebreaker	0	0	2	0	0	2	1	6	1	3	1	1
Icebreaker/Research	0	0	0	0	3	0	2	2	0	5	0	0
Patrol Vessel	82	65	104	89	71	77	73	61	46	75	74	65
Pollution Control Vessel	23	18	19	18	26	17	14	11	31	18	21	11
Research Survey Vessel	18	19	24	38	23	54	42	38	44	68	14	4
Salvage Ship	4	1	8	2	4	0	1	0	0	2	19	13
Search & Rescue Vessel	2	4	2	0	0	4	2	2	0	1	4	1
Suction Dredger	4	0	5	3	0	0	4	1	0	3	1	0
Suction Hopper Dredger	0	0	0	0	1	0	0	0	1	1	0	0
Supply Tender	0	0	0	2	5	0	2	1	3	5	30	21
Trailing Suction Hopper Dredger	0	0	0	0	0	0	10	1	4	7	1	0
Training Ship	0	1	0	0	0	1	0	0	0	0	0	0
Tug	74	54	84	70	77	58	69	71	74	63	56	66
Utility Vessel	0	0	0	0	0	0	1	0	11	1	15	12
Waste Disposal Vessel	27	19	35	26	17	18	10	2	2	26	23	17
Work/Repair Vessel	0	0	0	1	1	2	0	1	0	2	0	0

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S102. Transit counts for the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	67	117	121	150	210	169	145	155	214	171	161	121
Anchor Handling Tug Supply	33	46	39	38	51	36	31	22	44	40	52	32
Crew/Supply Vessel	0	0	0	0	0	0	2	0	0	2	0	0
Diving Support Vessel	0	0	0	1	12	4	6	7	4	0	0	0
Drilling Ship	0	0	0	0	0	0	0	1	2	1	0	0
FPSO, Oil	0	0	0	0	0	0	1	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	0	0	0	1
Offshore Support Vessel	2	6	5	5	6	8	14	13	8	8	9	11
Offshore Tug/Supply Ship	8	20	30	17	10	15	13	14	15	11	6	6
Pipe Burying Vessel	2	14	0	0	0	0	0	5	6	9	15	5
Pipe Layer	0	0	0	6	11	10	2	1	3	0	0	0
Platform Supply Ship	19	23	36	77	105	82	66	86	117	69	73	62
Standby Safety Vessel	3	8	11	6	15	14	10	6	15	31	6	4
Tankers	153	145	146	152	138	136	167	210	165	141	148	135
Asphalt/Bitumen Tanker	0	1	1	0	2	2	0	2	0	0	0	0
Chemical Tanker	2	5	6	5	3	1	3	4	3	7	2	0
Chemical/Products Tanker	88	68	62	82	79	82	94	137	99	74	84	77
Crude Oil Tanker	5	10	7	6	5	4	4	5	8	6	12	6
Crude/Oil Products Tanker	7	3	8	9	7	8	9	9	12	10	6	7
LNG Tanker	12	14	16	13	14	13	12	16	13	14	14	16
LPG Tanker	8	4	5	3	2	2	5	2	4	4	2	2
Products Tanker	29	39	40	31	18	23	36	31	21	24	25	23
Shuttle Tanker	2	1	1	3	8	1	4	4	5	2	3	4
Total	4793	4538	6078	4968	5053	5067	4795	4932	4751	4798	4621	3880

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Appendix S103. Operational hours in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	4371	3993	4926	3613	4156	3260	3948	3765	4060	4669	4152	4403
Bulk Carrier	4031	3567	4697	3347	3826	2996	3628	3344	3625	4381	3803	4067
Bulk Carrier, Self-discharging	85	105	0	110	77	112	104	124	85	38	40	95
Cement Carrier	229	220	146	155	253	152	216	296	232	235	184	239
Limestone Carrier	0	100	82	0	0	0	0	2	106	15	114	2
Ore Carrier	26	0	0	0	0	0	0	0	12	0	10	0
Dry Cargo/Passenger	26462	22188	28325	26769	28489	31407	33352	30343	27003	27941	26924	26572
Container Ship (Fully Cellular)	174	64	99	207	187	107	112	70	131	100	117	220
Deck Cargo Ship	681	643	770	503	391	436	279	262	362	271	167	197
General Cargo Ship	9368	8032	10174	9710	10988	11052	11606	12203	11490	12227	11562	10958
General Cargo Ship (with Ro-Ro facility)	0	0	0	17	20	37	51	0	0	0	36	0
General Cargo Ship, Self-discharging	447	489	655	574	448	400	431	518	512	637	583	485
General Cargo/Passenger Ship	559	387	605	571	533	674	607	582	639	486	435	571
Heavy Load Carrier	0	0	0	0	0	0	34	52	46	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	97	0	0	93	0	160	90	0	0
Landing Craft	0	5	0	260	140	345	35	97	96	170	45	0
Open Hatch Cargo Ship	0	0	0	2	72	0	105	118	49	0	0	0
Palletised Cargo Ship	968	942	1175	1185	818	1124	1084	1098	1036	1222	1363	1099
Passenger Ship	1569	1336	1658	1603	2102	1890	2120	1809	1784	1938	1747	1976
Passenger/Cruise	0	144	639	16	790	2288	1946	951	412	270	122	0
Passenger/Ro-Ro Ship (Vehicles)	10501	8489	9840	9464	9835	11098	12492	11050	8488	8516	8864	9435
Refrigerated Cargo Ship	1823	1381	2002	2286	1828	1669	2135	1311	1550	1847	1668	1484
Ro-Ro Cargo Ship	372	277	708	275	335	288	223	222	248	166	216	147

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Appendix S103. Operational hours in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Fishing	58301	59815	75862	57906	54155	41240	30986	33830	36249	36060	33708	27951
Factory Stern Trawler	8728	12202	12101	9769	7086	5873	5281	6399	7180	9196	3198	5089
Fish Carrier	50	0	110	99	105	202	300	124	552	140	187	215
Fish Factory Ship	71	0	30	44	8	52	0	0	0	115	26	83
Fish Farm Support Vessel	293	383	479	248	301	391	478	550	501	561	602	340
Fishery Patrol Vessel	0	0	0	0	0	68	115	0	0	0	0	0
Fishery Research Vessel	55	114	298	190	489	313	90	75	129	409	64	62
Fishing Vessel	19984	16420	22914	12937	14312	12827	7724	9028	8745	7698	12852	6945
Live Fish Carrier (Well Boat)	2295	2024	2519	2681	4900	4422	3220	3485	3693	4586	3770	3275
Seal Catcher	41	39	165	50	103	134	85	169	25	76	58	86
Stern Trawler	25417	27482	34821	31152	26000	16593	13270	13291	13999	12261	11947	11351
Trawler	1367	1150	2424	736	852	365	424	709	1426	1020	1001	504
Miscellaneous	3019	2556	4411	5083	5557	5670	6028	5020	4979	5166	3414	2385
Buoy & Lighthouse Tender	0	0	0	0	0	106	192	147	207	78	0	0
Cable Layer	90	11	111	404	754	291	577	809	398	74	74	96
Crane Vessel	0	0	0	0	0	0	0	42	0	50	0	0
Cutter Suction Dredger	0	0	0	0	0	0	35	0	0	52	0	0
Hopper, Motor	0	25	0	56	0	0	141	91	11	147	118	31
Icebreaker	0	0	72	0	0	110	33	158	49	121	40	32
Icebreaker/Research	0	0	0	0	109	0	83	52	0	141	0	0
Patrol Vessel	1351	1213	1793	1601	1134	944	1022	815	619	1259	1024	832
Pollution Control Vessel	117	114	113	98	153	89	51	47	149	82	133	80
Research Survey Vessel	355	406	680	1442	1914	2839	2260	1569	2434	1677	298	38
Salvage Ship	76	12	174	15	27	0	1	0	0	2	127	74
Search & Rescue Vessel	4	18	13	0	0	45	22	8	0	2	13	1
Suction Dredger	35	0	32	28	0	0	19	2	0	24	3	0
Suction Hopper Dredger	0	0	0	0	6	0	0	0	5	5	0	0
Supply Tender	0	0	0	9	52	0	14	16	24	58	125	137
Trailing Suction Hopper Dredger	0	0	0	0	0	0	439	36	132	318	35	0
Training Ship	0	34	0	0	0	32	0	0	0	0	0	0
Tug	591	450	1038	1153	1138	977	985	1118	774	687	946	780
Utility Vessel	0	0	0	0	0	0	55	0	101	52	90	60
Waste Disposal Vessel	398	274	385	275	217	194	100	75	76	301	388	225
Work/Repair Vessel	0	0	0	2	53	44	0	35	0	36	0	0

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Appendix S103. Operational hours in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	598	1216	1244	1978	2573	1987	2288	1820	2432	1873	2021	1194
Anchor Handling Tug Supply	284	638	479	969	1055	368	553	324	704	455	1043	481
Crew/Supply Vessel	0	0	0	0	0	0	28	0	0	54	0	0
Diving Support Vessel	0	0	0	39	119	30	43	52	57	0	0	0
Drilling Ship	0	0	0	0	0	0	0	2	39	75	0	0
FPSO, Oil	0	0	0	0	0	0	1	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	0	0	0	48
Offshore Support Vessel	34	68	34	23	33	73	134	90	36	86	63	104
Offshore Tug/Supply Ship	89	129	311	125	90	194	866	780	592	119	43	55
Pipe Burying Vessel	46	127	0	0	0	0	0	21	14	64	135	50
Pipe Layer	0	0	0	69	137	105	7	3	13	0	0	0
Platform Supply Ship	101	154	297	711	1077	739	469	521	852	638	630	422
Standby Safety Vessel	44	101	124	41	62	477	187	29	125	383	107	33
Tankers	3868	4047	4368	3745	3437	3222	3640	4281	4007	3472	3494	3758
Asphalt/Bitumen Tanker	0	6	6	0	77	28	0	8	0	0	0	0
Chemical Tanker	28	72	119	53	21	4	57	113	31	100	88	0
Chemical/Products Tanker	2034	1950	1957	1705	1718	1768	1804	2353	1911	1635	1254	1606
Crude Oil Tanker	253	337	222	197	186	175	168	187	289	185	319	267
Crude/Oil Products Tanker	257	177	359	440	305	286	227	233	247	345	289	254
LNG Tanker	459	626	615	434	452	364	398	501	505	429	562	601
LPG Tanker	98	78	100	61	72	65	131	61	70	83	62	111
Products Tanker	652	757	942	756	397	488	711	660	753	629	775	726
Shuttle Tanker	85	45	49	99	209	43	145	166	202	67	145	193
Total	96617	93815	119135	99093	98368	86786	80242	79061	78730	79181	73714	66263

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Appendix S104. Distance travelled (nm) in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	41618	38438	46901	36769	46328	36002	45654	44822	46148	51151	45053	44312
Bulk Carrier	38153	34271	44462	33644	42330	33037	41912	39949	41358	47883	41312	40514
Bulk Carrier, Self-discharging	729	905	0	1302	950	1152	1179	1476	950	360	348	1073
Cement Carrier	2416	2310	1694	1822	3048	1814	2564	3381	2736	2758	2216	2710
Limestone Carrier	0	953	745	0	0	0	0	16	957	151	1074	15
Ore Carrier	321	0	0	0	0	0	0	0	147	0	103	0
Dry Cargo/Passenger	205574	167630	226026	211620	233769	264048	279202	247079	223687	223733	215162	210479
Container Ship (Fully Cellular)	2291	911	1128	2580	2480	1303	1406	953	1595	1375	1589	2381
Deck Cargo Ship	2330	2293	2970	2023	1644	2629	2115	1910	2704	1963	1112	1483
General Cargo Ship	83282	66382	89703	87196	101657	99767	105605	108911	103534	104836	99186	94396
General Cargo Ship (with Ro-Ro facility)	0	0	0	248	270	483	479	0	0	0	505	0
General Cargo Ship, Self-discharging	3615	4142	5161	4771	3411	3306	3415	4224	4019	5136	4690	3826
General Cargo/Passenger Ship	5291	3601	5563	5292	5034	6367	5782	5325	5623	4400	3856	5262
Heavy Load Carrier	0	0	0	0	0	0	473	478	479	0	0	0
Heavy Load Carrier, semi submersible	0	0	0	919	0	0	904	0	1859	945	0	0
Landing Craft	0	37	0	1791	1038	2764	288	850	654	1150	360	0
Open Hatch Cargo Ship	0	0	0	29	958	0	1245	1401	478	0	0	0
Palletised Cargo Ship	6834	6943	8553	8626	5597	8147	8408	8473	7622	8936	10518	8124
Passenger Ship	21365	17082	20748	19273	25943	23775	25650	22287	22501	23888	22871	25457
Passenger/Cruise	0	1935	8463	100	8602	32698	29539	14032	4816	2514	641	0
Passenger/Ro-Ro Ship (Vehicles)	60042	48292	56782	54412	55383	62845	69204	62371	48423	48079	50143	53465
Refrigerated Cargo Ship	16624	13248	19688	21466	18220	17115	22366	13589	16322	18379	17293	14772
Ro-Ro Cargo Ship	3899	2764	7267	2896	3532	2850	2323	2275	3058	2132	2399	1312

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Appendix S104. Distance travelled (nm) in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Fishing	295905	292506	388451	284145	294115	241087	193916	205961	215801	224688	203882	162031
Factory Stern Trawler	46687	58621	59066	47351	37557	33673	31022	38967	42278	53508	19501	28547
Fish Carrier	485	0	726	881	1005	1583	2089	1269	3648	964	1388	1316
Fish Factory Ship	538	0	250	264	22	474	0	0	0	767	173	561
Fish Farm Support Vessel	2253	2992	3900	1872	2169	2883	3491	4104	3660	4018	4193	2318
Fishery Patrol Vessel	0	0	0	0	0	193	849	0	0	0	0	0
Fishery Research Vessel	395	741	2073	1553	3587	2108	683	783	1161	2582	499	434
Fishing Vessel	99947	81371	123606	62089	77666	74169	46524	52660	50730	46425	74320	38893
Live Fish Carrier (Well Boat)	15773	15069	19098	20511	36769	35175	25392	26394	27021	34731	28101	24741
Seal Catcher	308	353	1322	421	792	1110	759	1501	237	673	533	785
Stern Trawler	120838	124852	161691	145176	129401	86881	79284	75075	78902	73615	67043	60562
Trawler	8680	8507	16719	4027	5149	2838	3823	5208	8162	7405	8130	3874
Miscellaneous	18830	15472	25828	30383	32057	34406	37958	32723	29757	37690	25773	15818
Buoy & Lighthouse Tender	0	0	0	0	0	760	902	909	1299	565	0	0
Cable Layer	706	95	883	1695	3350	956	2313	3513	1954	590	618	794
Crane Vessel	0	0	0	0	0	0	0	426	0	416	0	0
Cutter Suction Dredger	0	0	0	0	0	0	336	0	0	373	0	0
Hopper, Motor	0	146	0	484	0	0	949	892	24	945	1165	189
Icebreaker	0	0	843	0	0	936	476	1837	693	1499	465	480
Icebreaker/Research	0	0	0	0	1265	0	871	580	0	1651	0	0
Patrol Vessel	7108	6762	9983	9210	7020	6004	5884	4853	3566	7789	6564	4984
Pollution Control Vessel	613	677	701	648	1099	541	285	186	807	584	973	547
Research Survey Vessel	2537	2557	4392	9668	11034	17775	14368	11100	14024	11808	2355	300
Salvage Ship	554	85	664	86	111	0	7	0	0	25	1062	405
Search & Rescue Vessel	28	124	75	0	0	271	145	54	0	13	80	7
Suction Dredger	216	0	240	215	0	0	153	19	0	194	7	0
Suction Hopper Dredger	0	0	0	0	49	0	0	0	47	31	0	0
Supply Tender	0	0	0	70	369	0	116	137	193	430	808	1041
Trailing Suction Hopper Dredger	0	0	0	0	0	0	4703	471	1364	3317	435	0
Training Ship	0	244	0	0	0	244	0	0	0	0	0	0
Tug	3589	2622	4972	5948	5399	4859	5115	6614	4360	4022	6925	4755
Utility Vessel	0	0	0	0	0	0	424	0	725	399	710	357
Waste Disposal Vessel	3479	2160	3075	2341	1893	1700	910	705	700	2650	3607	1961
Work/Repair Vessel	0	0	0	20	467	360	0	430	0	387	0	0

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Appendix S104. Distance travelled (nm) in the Norwegian Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Offshore	4382	8619	9851	15377	22014	15666	16682	13726	17234	14932	17173	10574
Anchor Handling Tug Supply	2069	3864	3682	6832	8389	2763	4313	2452	3950	3553	8218	4025
Crew/Supply Vessel	0	0	0	0	0	0	407	0	0	395	0	0
Diving Support Vessel	0	0	0	381	1513	310	461	537	608	0	0	0
Drilling Ship	0	0	0	0	0	0	0	19	395	448	0	0
FPSO, Oil	0	0	0	0	0	0	9	0	0	0	0	0
FSO, Oil	0	0	0	0	0	0	0	0	0	0	0	461
Offshore Support Vessel	427	703	300	256	385	939	1624	1065	275	880	668	1008
Offshore Tug/Supply Ship	557	1022	2580	1003	625	1543	4320	4073	2898	757	288	498
Pipe Burying Vessel	420	1010	0	0	0	0	0	284	183	707	1673	596
Pipe Layer	0	0	0	780	1293	982	75	26	135	0	0	0
Platform Supply Ship	807	1284	2445	5844	9546	6445	4237	5035	7920	6193	5831	3884
Standby Safety Vessel	103	737	845	282	265	2683	1237	235	871	1998	495	102
Tankers	40334	38753	42891	41192	40266	37375	42354	49399	44665	37932	37135	38193
Asphalt/Bitumen Tanker	0	74	58	0	850	318	0	100	0	0	0	0
Chemical Tanker	291	668	1014	548	247	49	606	1350	353	1049	1070	0
Chemical/Products Tanker	22077	19665	20768	19645	20701	20911	21800	26655	22238	17834	14437	17474
Crude Oil Tanker	2444	3698	2271	2239	2396	1877	1938	2381	3071	2282	3260	2596
Crude/Oil Products Tanker	2988	1367	3424	4267	3552	3075	2621	2647	2915	3693	2851	2598
LNG Tanker	5439	6457	6617	5441	6142	5412	5049	6892	6477	5933	6171	6539
LPG Tanker	1267	1211	1423	899	999	989	1918	940	958	973	941	1139
Products Tanker	5141	5140	6903	7140	3623	4275	7009	6743	6790	5670	6977	6265
Shuttle Tanker	688	475	415	1013	1757	470	1413	1691	1862	500	1429	1581
Total	606642	561420	739948	619486	668550	628584	615766	593711	577292	590125	544178	481407

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Appendix S105. Unique vessel counts for the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	4	0	25	3	0	0	32
Bulk Carrier	0	0	0	25	3	0	0	28
Ore/Oil Carrier	0	4	0	0	0	0	0	4
Dry Cargo/Passenger	1	78	50	14	2	1	0	146
Container Ship (Fully Cellular)	0	0	2	0	0	0	0	2
General Cargo Ship	1	70	48	8	0	0	0	127
General Cargo Ship (with Ro-Ro facility)	0	0	0	3	0	0	0	3
Passenger Ship	0	1	0	0	0	0	0	1
Passenger/Cruise	0	3	0	3	2	1	0	9
Refrigerated Cargo Ship	0	2	0	0	0	0	0	2
Ro-Ro Cargo Ship	0	2	0	0	0	0	0	2
Fishing	12	10	0	0	0	0	0	22
Fish Carrier	1	0	0	0	0	0	0	1
Fish Factory Ship	0	2	0	0	0	0	0	2
Fishing Vessel	0	2	0	0	0	0	0	2
Stern Trawler	11	5	0	0	0	0	0	16
Trawler	0	1	0	0	0	0	0	1
Miscellaneous	18	8	5	2	0	0	0	33
Bunkering Tanker	1	0	0	0	0	0	0	1
Hopper, Motor	3	0	0	0	0	0	0	3
Icebreaker	0	1	1	1	0	0	0	3
Icebreaker/Research	0	0	0	1	0	0	0	1
Research Survey Vessel	2	4	2	0	0	0	0	8
Tug	12	3	2	0	0	0	0	17
Offshore	3	2	0	0	0	0	0	5
Anchor Handling Tug Supply	0	1	0	0	0	0	0	1
Diving Support Vessel	1	0	0	0	0	0	0	1
Offshore Support Vessel	0	1	0	0	0	0	0	1
Offshore Tug/Supply Ship	2	0	0	0	0	0	0	2

Appendix S105. Unique vessel counts for the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	14	3	14	0	0	0	31
Chemical Tanker	0	3	0	0	0	0	0	3
Chemical/Products Tanker	0	2	1	9	0	0	0	12
Crude/Oil Products Tanker	0	0	0	1	0	0	0	1
Products Tanker	0	8	2	4	0	0	0	14
Vegetable Oil Tanker	0	1	0	0	0	0	0	1
Total	34	116	58	55	5	1	0	269

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Appendix S106. Transit counts for the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	45	0	190	13	0	0	248
Bulk Carrier	0	0	0	190	13	0	0	203
Ore/Oil Carrier	0	45	0	0	0	0	0	45
Dry Cargo/Passenger	5	716	277	190	4	2	0	1194
Container Ship (Fully Cellular)	0	0	10	0	0	0	0	10
General Cargo Ship	5	678	267	107	0	0	0	1057
General Cargo Ship (with Ro-Ro facility)	0	0	0	53	0	0	0	53
Passenger Ship	0	2	0	0	0	0	0	2
Passenger/Cruise	0	20	0	30	4	2	0	56
Refrigerated Cargo Ship	0	4	0	0	0	0	0	4
Ro-Ro Cargo Ship	0	12	0	0	0	0	0	12
Fishing	104	52	0	0	0	0	0	156
Fish Carrier	13	0	0	0	0	0	0	13
Fish Factory Ship	0	10	0	0	0	0	0	10
Fishing Vessel	0	11	0	0	0	0	0	11
Stern Trawler	91	26	0	0	0	0	0	117
Trawler	0	5	0	0	0	0	0	5
Miscellaneous	75	48	38	13	0	0	0	174
Bunkering Tanker	2	0	0	0	0	0	0	2
Hopper, Motor	10	0	0	0	0	0	0	10
Icebreaker	0	24	2	1	0	0	0	27
Icebreaker/Research	0	0	0	12	0	0	0	12
Research Survey Vessel	13	18	18	0	0	0	0	49
Tug	50	6	18	0	0	0	0	74
Offshore	22	5	0	0	0	0	0	27
Anchor Handling Tug Supply	0	1	0	0	0	0	0	1
Diving Support Vessel	2	0	0	0	0	0	0	2
Offshore Support Vessel	0	4	0	0	0	0	0	4
Offshore Tug/Supply Ship	20	0	0	0	0	0	0	20

Appendix S106. Transit counts for the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	167	15	159	0	0	0	341
Chemical Tanker	0	47	0	0	0	0	0	47
Chemical/Products Tanker	0	10	7	145	0	0	0	162
Crude/Oil Products Tanker	0	0	0	6	0	0	0	6
Products Tanker	0	100	8	8	0	0	0	116
Vegetable Oil Tanker	0	10	0	0	0	0	0	10
Total	206	1033	330	552	17	2	0	2140

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Appendix S107. Operational hours in the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	659	0	1535	83	0	0	2277
Bulk Carrier	0	0	0	1535	83	0	0	1618
Ore/Oil Carrier	0	659	0	0	0	0	0	659
Dry Cargo/Passenger	43	8240	2741	1630	28	6	0	12687
Container Ship (Fully Cellular)	0	0	90	0	0	0	0	90
General Cargo Ship	43	7841	2651	969	0	0	0	11504
General Cargo Ship (with Ro-Ro facility)	0	0	0	449	0	0	0	449
Passenger Ship	0	21	0	0	0	0	0	21
Passenger/Cruise	0	204	0	212	28	6	0	449
Refrigerated Cargo Ship	0	48	0	0	0	0	0	48
Ro-Ro Cargo Ship	0	125	0	0	0	0	0	125
Fishing	1205	954	0	0	0	0	0	2158
Fish Carrier	159	0	0	0	0	0	0	159
Fish Factory Ship	0	123	0	0	0	0	0	123
Fishing Vessel	0	118	0	0	0	0	0	118
Stern Trawler	1046	256	0	0	0	0	0	1302
Trawler	0	457	0	0	0	0	0	457
Miscellaneous	1063	430	428	102	0	0	0	2024
Bunkering Tanker	16	0	0	0	0	0	0	16
Hopper, Motor	121	0	0	0	0	0	0	121
Icebreaker	0	127	23	3	0	0	0	153
Icebreaker/Research	0	0	0	100	0	0	0	100
Research Survey Vessel	193	223	196	0	0	0	0	612
Tug	734	80	209	0	0	0	0	1023
Offshore	197	49	0	0	0	0	0	246
Anchor Handling Tug Supply	0	10	0	0	0	0	0	10
Diving Support Vessel	36	0	0	0	0	0	0	36
Offshore Support Vessel	0	39	0	0	0	0	0	39
Offshore Tug/Supply Ship	162	0	0	0	0	0	0	162

Appendix S107. Operational hours in the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	1735	135	1329	0	0	0	3200
Chemical Tanker	0	434	0	0	0	0	0	434
Chemical/Products Tanker	0	105	40	1203	0	0	0	1348
Crude/Oil Products Tanker	0	0	0	66	0	0	0	66
Products Tanker	0	1081	95	60	0	0	0	1236
Vegetable Oil Tanker	0	116	0	0	0	0	0	116
Total	2508	12067	3305	4597	111	6	0	22592

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Appendix S108.Distance travelled (nm) in the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Bulk Carriers	0	5037	0	15492	1010	0	0	21539
Bulk Carrier	0	0	0	15492	1010	0	0	16502
Ore/Oil Carrier	0	5037	0	0	0	0	0	5037
Dry Cargo/Passenger	452	74248	29593	19180	412	95	0	123980
Container Ship (Fully Cellular)	0	0	1110	0	0	0	0	1110
General Cargo Ship	452	70262	28483	11756	0	0	0	110953
General Cargo Ship (with Ro-Ro facility)	0	0	0	5411	0	0	0	5411
Passenger Ship	0	243	0	0	0	0	0	243
Passenger/Cruise	0	2220	0	2014	412	95	0	4741
Refrigerated Cargo Ship	0	509	0	0	0	0	0	509
Ro-Ro Cargo Ship	0	1013	0	0	0	0	0	1013
Fishing	10206	5200	0	0	0	0	0	15406
Fish Carrier	1139	0	0	0	0	0	0	1139
Fish Factory Ship	0	957	0	0	0	0	0	957
Fishing Vessel	0	993	0	0	0	0	0	993
Stern Trawler	9066	2511	0	0	0	0	0	11578
Trawler	0	739	0	0	0	0	0	739
Miscellaneous	7542	3966	3895	1331	0	0	0	16734
Bunkering Tanker	114	0	0	0	0	0	0	114
Hopper, Motor	719	0	0	0	0	0	0	719
Icebreaker	0	940	257	51	0	0	0	1248
Icebreaker/Research	0	0	0	1281	0	0	0	1281
Research Survey Vessel	1590	2228	1889	0	0	0	0	5708
Tug	5118	797	1749	0	0	0	0	7664
Offshore	1165	500	0	0	0	0	0	1665
Anchor Handling Tug Supply	0	114	0	0	0	0	0	114
Diving Support Vessel	274	0	0	0	0	0	0	274
Offshore Support Vessel	0	386	0	0	0	0	0	386
Offshore Tug/Supply Ship	891	0	0	0	0	0	0	891

Appendix S108. Distance travelled (nm) in the White Sea by vessel type (vessel type class totals provided in bold) and gross tonnage category (continued)

Vessel Type	<1000	1000 4999	5000 9999	10000 24999	25000 49999	50000 99999	> 100000	Total
Tankers	0	15785	1371	15212	0	0	0	32369
Chemical Tanker	0	4588	0	0	0	0	0	4588
Chemical/Products Tanker	0	1072	420	13795	0	0	0	15287
Crude/Oil Products Tanker	0	0	0	675	0	0	0	675
Products Tanker	0	9316	951	743	0	0	0	11010
Vegetable Oil Tanker	0	809	0	0	0	0	0	809
Total	19365	104735	34859	51216	1422	95	0	211693

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Appendix S109. Unique vessel counts for the White Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	7	5	9	8	10	10	10	7	9	12	5	5
Bulk Carrier	7	5	9	8	10	8	6	3	6	9	4	5
Ore/Oil Carrier	0	0	0	0	0	2	4	4	3	3	1	0
Dry Cargo/Passenger	33	35	39	41	45	56	62	66	68	60	45	42
Container Ship (Fully Cellular)	0	0	0	1	1	0	0	1	1	1	0	0
General Cargo Ship	32	33	36	38	40	49	50	60	63	53	44	40
General Cargo Ship (with Ro-Ro facility)	1	1	2	2	3	3	3	3	2	2	1	2
Passenger Ship	0	0	0	0	0	0	1	0	0	1	0	0
Passenger/Cruise	0	1	1	0	0	3	6	2	0	1	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	1	0	1	1	0	0
Ro-Ro Cargo Ship	0	0	0	0	1	1	1	0	1	1	0	0
Fishing	2	1	1	4	7	10	13	12	12	12	8	4
Fish Carrier	0	0	0	0	0	1	1	1	1	1	1	0
Fish Factory Ship	0	0	0	1	1	0	1	1	1	0	1	0
Fishing Vessel	0	0	0	0	0	1	2	1	1	1	1	1
Stern Trawler	2	0	0	3	6	8	9	8	8	10	5	3
Trawler	0	1	1	0	0	0	0	1	1	0	0	0
Miscellaneous	2	2	2	5	5	8	16	16	10	19	8	3
Bunkering Tanker	0	0	0	0	0	1	0	0	0	0	0	0
Hopper, Motor	0	0	0	1	0	0	2	0	0	2	2	0
Icebreaker	1	1	1	1	0	1	0	0	0	1	1	0
Icebreaker/Research	0	0	0	0	1	0	1	1	1	1	0	0
Research Survey Vessel	0	0	1	2	4	4	4	6	3	8	0	0
Tug	1	1	0	1	0	2	9	9	6	7	5	3
Offshore	1	0	1	1	1	2	3	1	1	3	1	1
Anchor Handling Tug Supply	0	0	0	0	0	0	0	0	0	1	0	0
Diving Support Vessel	0	0	0	0	0	0	1	0	0	1	0	0
Offshore Support Vessel	0	0	0	0	0	1	1	0	0	1	0	0
Offshore Tug/Supply Ship	1	0	1	1	1	1	1	1	1	0	1	1

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Appendix S109. Unique vessel counts for the White Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	11	11	9	14	8	12	11	17	16	15	12	11
Chemical Tanker	1	1	0	2	1	1	2	1	2	1	2	2
Chemical/Products Tanker	7	7	7	8	5	5	5	7	4	6	5	5
Crude/Oil Products Tanker	0	0	0	1	0	1	0	1	0	0	0	0
Products Tanker	3	3	2	3	2	4	3	8	9	7	5	4
Vegetable Oil Tanker	0	0	0	0	0	1	1	0	1	1	0	0
Total	56	54	61	73	76	98	115	119	116	121	79	66

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Appendix S110. Transit counts for the White Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	22	15	30	23	25	18	24	20	25	27	9	11
Bulk Carrier	22	15	30	23	25	15	12	10	15	17	8	11
Ore/Oil Carrier	0	0	0	0	0	3	12	10	10	10	1	0
Dry Cargo/Passenger	53	80	95	90	85	104	143	141	141	115	80	77
Container Ship (Fully Cellular)	0	0	0	2	2	0	0	2	2	2	0	0
General Cargo Ship	51	70	71	80	77	93	113	126	127	103	79	74
General Cargo Ship (with Ro-Ro facility)	2	1	7	8	5	3	8	6	5	5	1	3
Passenger Ship	0	0	0	0	0	0	1	0	0	1	0	0
Passenger/Cruise	0	9	17	0	0	7	16	7	0	1	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	1	0	2	1	0	0
Ro-Ro Cargo Ship	0	0	0	0	1	1	4	0	5	2	0	0
Fishing	2	1	2	5	13	16	28	22	23	26	18	9
Fish Carrier	0	0	0	0	0	2	3	3	2	3	2	0
Fish Factory Ship	0	0	0	1	1	0	2	3	2	0	2	0
Fishing Vessel	0	0	0	0	0	1	3	1	2	1	1	3
Stern Trawler	2	0	0	4	12	13	20	13	16	22	13	6
Trawler	0	1	2	0	0	0	0	2	1	0	0	0
Miscellaneous	8	10	11	11	6	15	23	29	17	29	10	8
Bunkering Tanker	0	0	0	0	0	2	0	0	0	0	0	0
Hopper, Motor	0	0	0	1	0	0	2	0	0	5	2	0
Icebreaker	5	4	9	5	0	1	0	0	0	2	1	0
Icebreaker/Research	0	0	0	0	2	0	1	3	1	5	0	0
Research Survey Vessel	0	0	2	4	4	8	6	12	5	10	0	0
Tug	3	6	0	1	0	4	14	14	11	7	7	8
Offshore	2	0	1	1	3	3	3	2	1	4	5	2
Anchor Handling Tug Supply	0	0	0	0	0	0	0	0	0	1	0	0
Diving Support Vessel	0	0	0	0	0	0	1	0	0	1	0	0
Offshore Support Vessel	0	0	0	0	0	1	1	0	0	2	0	0
Offshore Tug/Supply Ship	2	0	1	1	3	2	1	2	1	0	5	2

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Appendix S110. Transit counts for the White Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	33	36	22	30	17	27	29	36	37	35	24	16
Chemical Tanker	4	7	0	4	2	4	6	3	8	1	5	3
Chemical/Products Tanker	19	23	15	17	10	12	14	11	10	13	10	9
Crude/Oil Products Tanker	0	0	0	2	0	2	0	2	0	0	0	0
Products Tanker	10	6	7	7	5	5	7	20	18	18	9	4
Vegetable Oil Tanker	0	0	0	0	0	4	2	0	1	3	0	0
Total	120	142	161	160	149	183	250	250	244	236	146	123

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Appendix S111. Operational hours in the White Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	194	129	233	188	208	146	279	223	266	260	72	78
Bulk Carrier	194	129	233	188	208	130	96	61	109	142	51	78
Ore/Oil Carrier	0	0	0	0	0	17	183	162	158	119	21	0
Dry Cargo/Passenger	558	856	906	797	789	1100	1649	1579	1709	1193	793	759
Container Ship (Fully Cellular)	0	0	0	20	20	0	0	22	11	17	0	0
General Cargo Ship	537	781	733	719	722	1012	1354	1450	1588	1100	781	728
General Cargo Ship (with Ro-Ro facility)	21	10	52	58	37	26	79	41	50	34	12	31
Passenger Ship	0	0	0	0	0	0	11	0	0	10	0	0
Passenger/Cruise	0	66	121	0	0	49	137	66	0	11	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	16	0	16	17	0	0
Ro-Ro Cargo Ship	0	0	0	0	11	13	52	0	45	5	0	0
Fishing	21	1	25	56	123	172	308	536	384	277	161	93
Fish Carrier	0	0	0	0	0	18	38	34	18	41	11	0
Fish Factory Ship	0	0	0	15	12	0	7	31	28	0	28	0
Fishing Vessel	0	0	0	0	0	16	38	8	19	9	11	17
Stern Trawler	21	0	0	41	111	139	225	162	189	228	112	75
Trawler	0	1	25	0	0	0	0	301	130	0	0	0
Miscellaneous	49	156	53	101	75	164	360	324	246	368	76	52
Bunkering Tanker	0	0	0	0	0	16	0	0	0	0	0	0
Hopper, Motor	0	0	0	18	0	0	49	0	0	49	6	0
Icebreaker	30	28	43	16	0	11	0	0	0	23	3	0
Icebreaker/Research	0	0	0	0	18	0	10	22	5	44	0	0
Research Survey Vessel	0	0	11	55	57	87	65	136	80	121	0	0
Tug	18	129	0	13	0	50	235	165	162	131	68	52
Offshore	6	0	2	4	10	17	34	27	2	52	84	8
Anchor Handling Tug Supply	0	0	0	0	0	0	0	0	0	10	0	0
Diving Support Vessel	0	0	0	0	0	0	18	0	0	18	0	0
Offshore Support Vessel	0	0	0	0	0	2	12	0	0	25	0	0
Offshore Tug/Supply Ship	6	0	2	4	10	15	4	27	2	0	84	8

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Appendix S111. Operational hours in the White Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	307	340	199	280	160	242	287	328	331	364	207	154
Chemical Tanker	41	66	0	43	19	37	61	24	62	13	42	27
Chemical/Products Tanker	164	194	144	143	91	100	92	87	62	103	80	88
Crude/Oil Products Tanker	0	0	0	23	0	20	0	23	0	0	0	0
Products Tanker	102	79	55	72	50	65	100	195	195	199	85	39
Vegetable Oil Tanker	0	0	0	0	0	20	33	0	13	49	0	0
Total	1135	1483	1417	1426	1366	1842	2916	3018	2939	2515	1393	1144

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Appendix S112. Distance travelled (nm) in the White Sea by vessel type (vessel type class totals provided in bold) and month

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bulk Carriers	1734	1008	2188	1935	2135	1550	2459	1986	2458	2466	753	866
Bulk Carrier	1734	1008	2188	1935	2135	1429	1070	686	1276	1551	623	866
Ore/Oil Carrier	0	0	0	0	0	121	1389	1300	1182	914	131	0
Dry Cargo/Passenger	5756	6185	8782	8819	8986	11435	16279	14739	15529	11409	8065	7996
Container Ship (Fully Cellular)	0	0	0	223	229	0	0	252	161	245	0	0
General Cargo Ship	5494	5418	7335	7926	8175	10280	13011	13277	14129	10346	7932	7631
General Cargo Ship (with Ro-Ro facility)	262	113	484	671	473	351	997	520	639	403	133	364
Passenger Ship	0	0	0	0	0	0	121	0	0	121	0	0
Passenger/Cruise	0	653	963	0	0	689	1624	690	0	121	0	0
Refrigerated Cargo Ship	0	0	0	0	0	0	150	0	222	137	0	0
Ro-Ro Cargo Ship	0	0	0	0	108	115	375	0	378	37	0	0
Fishing	219	8	223	539	1211	1678	2477	2271	2356	2233	1387	804
Fish Carrier	0	0	0	0	0	155	305	146	143	284	106	0
Fish Factory Ship	0	0	0	117	121	0	51	209	231	0	227	0
Fishing Vessel	0	0	0	0	0	112	322	63	155	103	117	122
Stern Trawler	219	0	0	422	1089	1411	1799	1476	1696	1847	937	682
Trawler	0	8	223	0	0	0	0	377	131	0	0	0
Miscellaneous	401	944	403	832	711	1462	2723	3009	2074	3110	628	438
Bunkering Tanker	0	0	0	0	0	114	0	0	0	0	0	0
Hopper, Motor	0	0	0	117	0	0	271	0	0	304	26	0
Icebreaker	252	163	304	110	0	112	0	0	0	257	51	0
Icebreaker/Research	0	0	0	0	242	0	120	265	63	590	0	0
Research Survey Vessel	0	0	99	486	468	863	682	1388	665	1058	0	0
Tug	149	782	0	119	0	373	1650	1356	1347	900	551	438
Offshore	23	0	8	8	36	48	301	228	17	482	450	64
Anchor Handling Tug Supply	0	0	0	0	0	0	0	0	0	114	0	0
Diving Support Vessel	0	0	0	0	0	0	136	0	0	138	0	0
Offshore Support Vessel	0	0	0	0	0	25	131	0	0	230	0	0
Offshore Tug/Supply Ship	23	0	8	8	36	23	33	228	17	0	450	64

Supplemental Appendices for 2015 Vessel Activity in the Arctic

Appendix S112. Distance travelled (nm) in the White Sea by vessel type (vessel type class totals provided in bold) and month(continued)

Vessel Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Tankers	3372	2773	1994	3173	1871	2615	2751	3323	3374	3222	2164	1735
Chemical Tanker	452	480	0	456	230	430	659	261	688	121	490	321
Chemical/Products Tanker	2023	1822	1645	1713	1077	1254	1013	951	699	1122	933	1035
Crude/Oil Products Tanker	0	0	0	235	0	213	0	227	0	0	0	0
Products Tanker	897	472	349	769	564	564	809	1884	1880	1702	741	379
Vegetable Oil Tanker	0	0	0	0	0	154	270	0	108	277	0	0
Total	11505	10919	13598	15306	14949	18788	26990	25556	25809	22922	13448	11904