

Ship Traffic Analysis on the Northern Sea Route January – March 2019

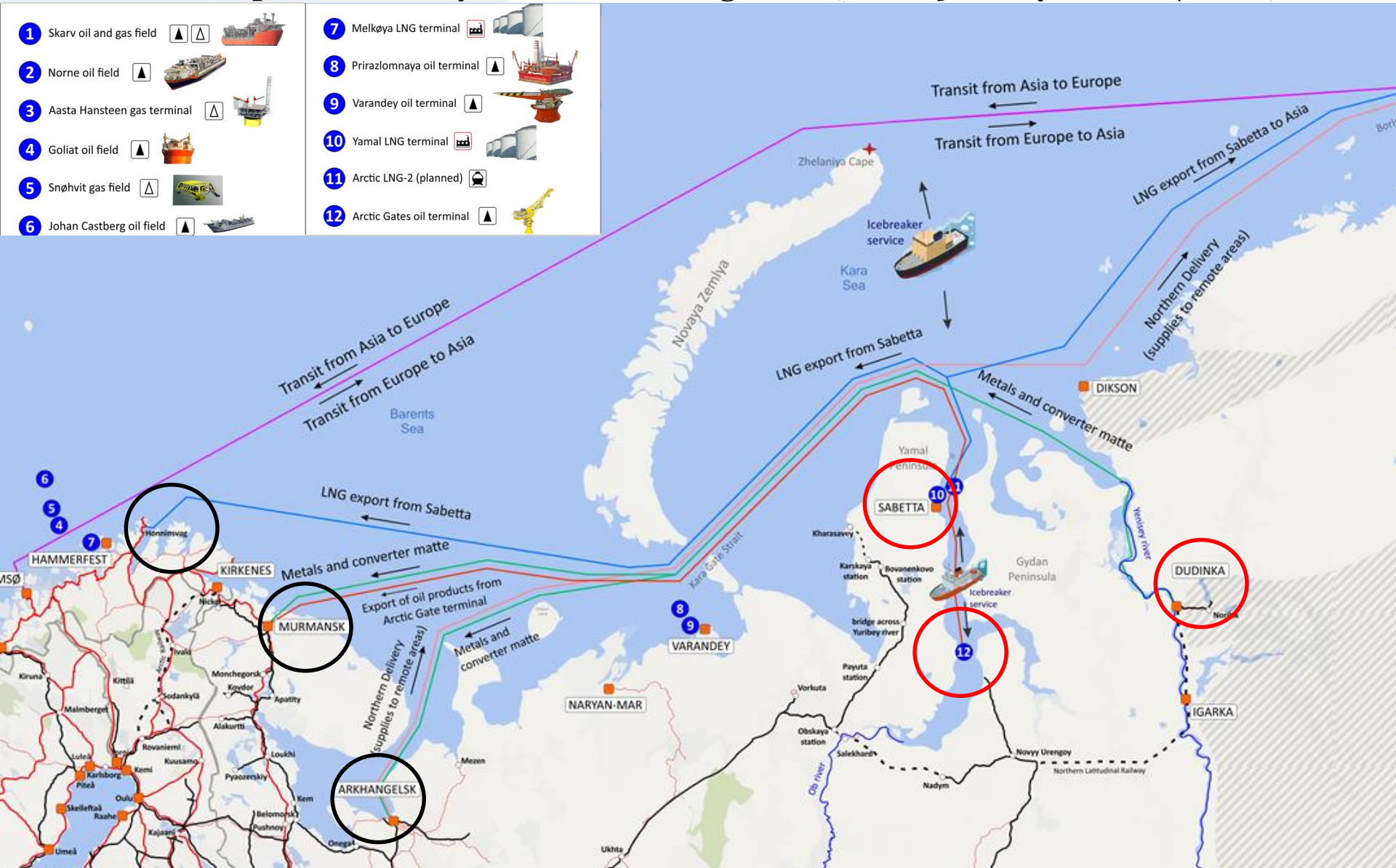


Arctic Circle China Forum 2019
Shanghai Science & Technology Museum 11 May 2019

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Ship Traffic Analysis at NSR during Winter 2019 (January - March)

- | | |
|-------------------------------|------------------------------|
| 1 Skarv oil and gas field | 7 Melkøya LNG terminal |
| 2 Norne oil field | 8 Prirazlomnaya oil terminal |
| 3 Aasta Hansteen gas terminal | 9 Varandey oil terminal |
| 4 Goliat oil field | 10 Yamal LNG terminal |
| 5 Snøhvit gas field | 11 Arctic LNG-2 (planned) |
| 6 Johan Castberg oil field | 12 Arctic Gates oil terminal |

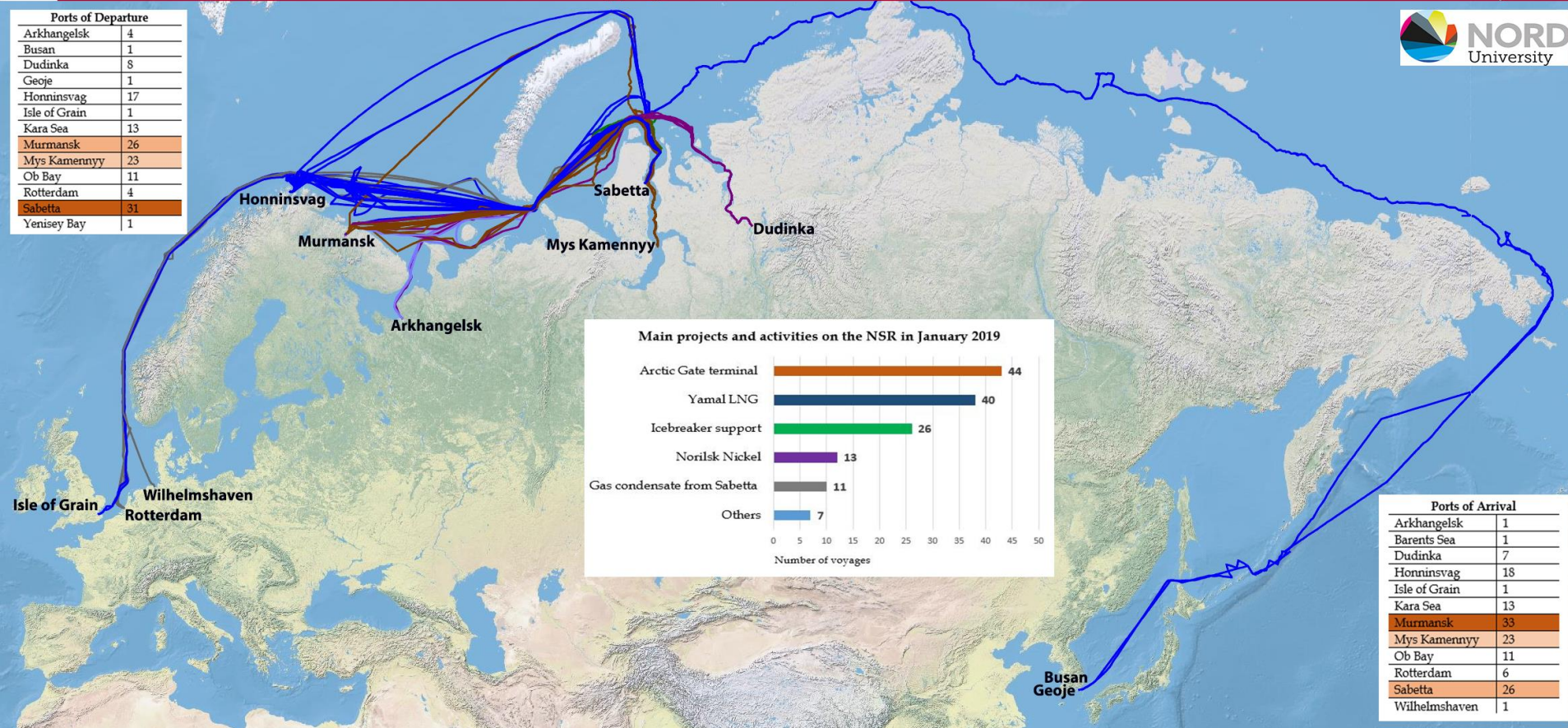


Winter NSR traffic. 1st January – 1st April 2019

CHNL

NSR Shipping Traffic // Activities in January 2019

Created by CHNL

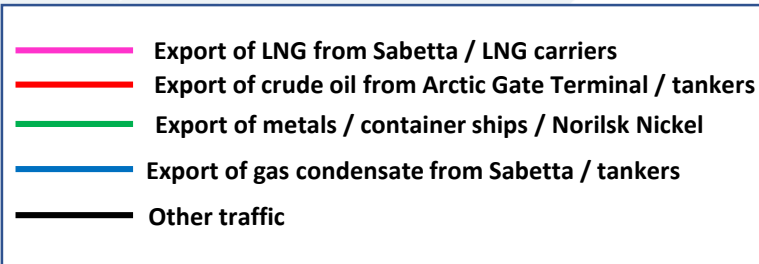


Vessel name	Country	Departure Port	Date	Time	Arrival Port	Date	Time
Boris Sokolov	South Korea	Busan	16.12.2018	10:00:00	Sabetta	20.01.2019	9:00:00
Boris Davydov	South Korea	Geoje	24.12.2018	2:00:00	Sabetta	23.01.2019	3:00:00

Vessel name	Ice class	Flag	Owner / Operator	Vessel type	DWT	GRT	LOA	Beam	Draft
Boris Sokolov	Arc 7	Cyprus	Dynacom Tankers Management LTD,	Tanker	51416	39982	214	34	11,7
Boris Davydov	Arc 7	Cyprus	Dynagas	LNG Tanker	97000	128806	299	50	11

Winter NSR traffic. 1st January – 1st April 2019

All vessels



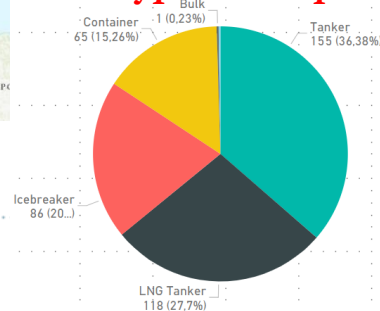
DEP Port	Nº
Sabetta	87
Murmansk	83
Mys Kamenny	68
Honningsvag	52
Ob Bay	36
Kara Sea	32
Dudinka	24
Arkhangelsk	20
Rotterdam	9
Salmanovskoe Field	4
Barents Sea	3
Yenisey Bay	3
Kalundborg	2
Antwerpen	1
Isle of Grain	1
Wilhelmshaven	1
Total	426

426 voyages
49 vessels

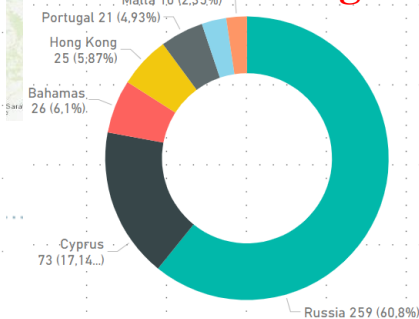
Project	Nº
Gas Condensate Sabetta	27
Other activities	35
Norilsk Nickel	45
Nuclear icebreaker	64
Yamal LNG	118
Arctic Gate terminal	137
Total	426

Arrival Port	Nº
Murmansk	94
Sabetta	79
Mys Kamenny	71
Honningsvag	55
Ob Bay	36
Kara Sea	32
Dudinka	24
Rotterdam	10
Salmanovskoe Field	9
Barents Sea	3
Yenisey Bay	3
Arkhangelsk	2
Kalundborg	2
Wilhelmshaven	2
Dunkirk	1
Isle of Grain	1
Milford Haven	1
Mys Muksuninskiy	1
Total	426

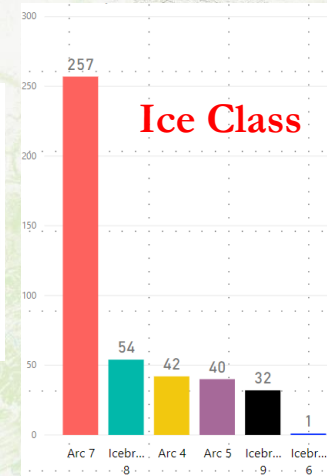
Type of ships



Flag



Ice Class



Winter NSR traffic. 1st January – 1st April 2019

All vessels

Project	Nº
Arctic Gate terminal	137
Yamal LNG	118
Nuclear icebreaker	64
Norilsk Nickel	45
Other activities	35
Gas Condensate Sabetta	27
Total	426

Owner/Operator	Nº
Gazpromneft Shipping	71
Atomflot	65
Dynagas	53
Norilsk Nickel	45
SCF	42
Teekay Shipping	26
Roswell Arctic	24
ZELITIKO SHIPPING COMPANY	14
Arctic Blue LNG Shipping LTD,	13
Arctic Green LNG Shipping Ltd,	11
Sevnor Management	9
Dynacom Tankers Management LTD,	6
MT Rhonestern" Schiffahrtsgesellschaft MBH & Co, KG"	6
MT Weichselstern Schiffahrtsgesellschaft mbH	6
MT Wolgastern Schiffahrtsgesellschaft mbH	6
Reskom Tyumen	6
Rosmorport	6
Northern Project	5
Azia Shipping Company	3
MT THEMSESTERN	3
SCHIFFFAHRTSGESELLSCHAFT MBH & CO.KG	3
Eco Shipping	2
Murmansk Shipping Company	2
DY Maritime	1
Marine Rescue Service	1
Total	426

VoyageDirection	Nº
Murmansk - Mys Kamennyy	64
Mys Kamennyy - Murmansk	61
Sabetta - Honningsvag	55
Honningsvag - Sabetta	52
Kara Sea - Ob Bay	28
Ob Bay - Kara Sea	27
Dudinka - Murmansk	22
Murmansk - Dudinka	11
Sabetta - Murmansk	11
Arkhangelsk - Dudinka	10
Sabetta - Rotterdam	10
Rotterdam - Sabetta	9
Arkhangelsk - Salmanovskoe Field	6
Murmansk - Sabetta	6
Mys Kamennyy - Ob Bay	6
Ob Bay - Mys Kamennyy	6
Salmanovskoe Field - Sabetta	4
Arkhangelsk - Sabetta	3
Yenisey Bay - Kara Sea	3
Kalundborg - Sabetta	2
Kara Sea - Dudinka	2
Murmansk - Salmanovskoe Field	2
Ob Bay - Barents Sea	2
Sabetta - Arkhangelsk	2
Sabetta - Kalundborg	2
Sabetta - Wilhelmshaven	2
Antwerpen - Sabetta	1
Arkhangelsk - Mys Muksuninskiy	1
Barents Sea - Kara Sea	1
Barents Sea - Ob Bay	1
Barents Sea - Yenisey Bay	1
Dudinka - Kara Sea	1
Dudinka - Ob Bay	1
Isle of Grain - Sabetta	1
Kara Sea - Barents Sea	1
Kara Sea - Yenisey Bay	1
Mys Kamennyy - Mys Kamennyy	1
Ob Bay - Yenisey Bay	1
Sabetta - Dudinka	1
Sabetta - Dunkirk	1
Total	426

VesselName	Nº Voy	Nº Ships
Taimyr (icebreaker)	19	1
Yamal	19	1
Shturman Koshelev	15	1
Shturman Shcherbinin	15	1
Shturman Skuratov	15	1
Christophe de Margerie	14	1
Rudolf Samoilovich	14	1
Shturman Albanov	14	1
Shturman Malygin	14	1
Shturman Ovtyn	14	1
Vladimir Rusanov (LNG)	14	1
50 let Pobedy	13	1
Boris Vilkitskiy (LNG)	13	1
Georgiy Brusilov	13	1
Vaygach	13	1
Eduard Toll	12	1
Fedor Litke	12	1
Ice Condor	12	1
Ice Eagle	12	1
Andrey Vilkitskiy	11	1
Vladimir Vize	11	1
Lagorta	10	1
Boris Davydov	9	1
Norilsk Nickel	8	1
Talhakh	8	1
Zapolyarniy	8	1
Monchegorsk	7	1
Nadezhda	7	1
Yenisey	7	1
Boris Sokolov	6	1
Krasin	6	1
Nikolay Zubov	6	1
Rhonestern	6	1
Weichselstern	6	1
Wolgastern	6	1
Alexander Sannikov	5	1
Arktika-2	5	1
Yamal Krechet	5	1
Tambey	4	1
Yamal Irbis	4	1
Total	426	49

VesselType	Nº
Tanker	155
LNG Tanker	118
Icebreaker	86
Container	65
Bulk	1
SAR	1
Total	426

Flag	Nº
Russia	259
Cyprus	73
Bahamas	26
Hong Kong	25
Portugal	21
Liberia	12
Malta	10
Total	426

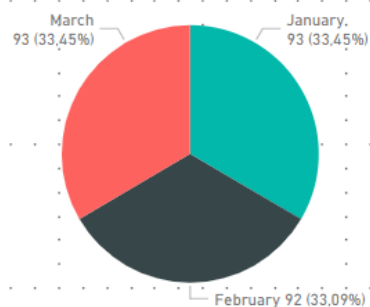
IceClass	Nº
Arc 7	257
Icebreaker 8	54
Arc 4	42
Arc 5	40
Icebreaker 9	32
Icebreaker 6	1
Total	426

VesselName	DEPPort	DEPDate	ArrivalPort	ArrivalDate	Days
50 let Pobedy	Kara Sea	01.01.2019	Ob Bay	02.01.2019	1
Shturman Shcherbinin	Murmansk	01.01.2019	Mys Kamennyy	05.01.2019	3
Baltika	Mys Kamennyy	01.01.2019	Mys Kamennyy	01.01.2019	0
Norilsk Nickel	Dudinka	01.02.2019	Murmansk	06.02.2019	5
Boris Vilkitskiy (LNG)	Honningsvag	01.02.2019	Sabetta	08.02.2019	7
50 let Pobedy	Kara Sea	01.02.2019	Ob Bay	03.02.2019	2
Ice Condor	Mys Kamennyy	01.02.2019	Murmansk	08.02.2019	6
Georgiy Brusilov	Sabetta	01.02.2019	Honningsvag	04.02.2019	3
Shturman Ovtyn	Murmansk	01.03.2019	Mys Kamennyy	06.03.2019	5
Yamal Krechet	Murmansk	01.03.2019	Sabetta	08.03.2019	7
Wolgastern	Sabetta	01.03.2019	Kalundborg	12.03.2019	10
Vladimir Rusanov (LNG)	Honningsvag	02.01.2019	Sabetta	05.01.2019	2
Shturman Skuratov	Murmansk	02.01.2019	Mys Kamennyy	07.01.2019	5
Shturman Koshelev	Mys Kamennyy	02.01.2019	Murmansk	07.01.2019	5
Krasin	Barents Sea	02.02.2019	Kara Sea	02.02.2019	0
Boris Davydov	Honningsvag	02.02.2019	Sabetta	09.02.2019	7
Nadezhda	Murmansk	02.02.2019	Dudinka	07.02.2019	5
Shturman Koshelev	Murmansk	02.02.2019	Mys Kamennyy	07.02.2019	5
Shturman Skuratov	Mys Kamennyy	02.02.2019	Murmansk	07.02.2019	4
Vaygach	Ob Bay	02.02.2019	Kara Sea	04.02.2019	1
Vladimir Vize	Sabetta	02.02.2019	Honningsvag	06.02.2019	3
Georgiy Brusilov	Honningsvag	02.03.2019	Sabetta	07.03.2019	4
Shturman Malygin	Mys Kamennyy	02.03.2019	Murmansk	07.03.2019	5
Vladimir Rusanov (LNG)	Sabetta	02.03.2019	Honningsvag	09.03.2019	7
Christophe de Margerie	Honningsvag	03.01.2019	Sabetta	06.01.2019	3
Yamal	Kara Sea	03.01.2019	Ob Bay	05.01.2019	1
Norilsk Nickel	Murmansk	03.01.2019	Dudinka	08.01.2019	5
Ice Condor	Mys Kamennyy	03.01.2019	Murmansk	08.01.2019	4
Yamal	Ob Bay	03.01.2019	Kara Sea	03.01.2019	0
Taimyr (icebreaker)	Ob Bay	03.01.2019	Kara Sea	05.01.2019	2

Winter NSR traffic. 1st January – 1st April 2018

Owner/Operator	Nº	VoyageDirection	Nº	VesselName	Nº Voy	Nº Ships	VesselType	Nº	Flag	Nº	IceClass	Nº
Atomflot	57	Mys Kamenny - Murmansk	52	50 Iet Pobedy	22	1	Tanker	124	Russia	206	Arc 7	153
Gazpromneft Shipping	39	Murmansk - Mys Kamenny	51	Vaygach	17	1	Icebreaker	59	Cyprus	23	Arc 5	51
Norilsk Nickel	38	Dudinka - Murmansk	18	Taimyr (icebreaker)	16	1	Container	34	Liberia	13	Icebreaker 8	35
SCF	38	Kara Sea - Ob Bay	17	Shturman Skuratov	14	1	LNG Tanker	34	Portugal	13	Icebreaker 9	24
Dynagas	15	Ob Bay - Kara Sea	15	Ice Eagle	13	1	General cargo	26	Malta	12	Arc 4	14
Global One Shipping	13	Murmansk - Dudinka	12	Shturman Malygin	13	1	SAR	1	Bahamas	7	Icebreaker 6	1
Roswell Arctic	12	Sabetta - Rotterdam	12	Shturman Ovtyn	13	1	Total	278	Hong Kong	4	Total	278
Eco Shipping	8	Arkhangelsk - Sabetta	11	Shturman Shcherbinin	13	1			Total	278		
Murmansk Shipping Company	8	Sabetta - Arkhangelsk	9	Ice Condor	12	1						
ZELITKO SHIPPING COMPANY	8	Rotterdam - Sabetta	8	Shturman Albanov	12	1						
Teekay Shipping	7	Arkhangelsk - Dudinka	6	Shturman Koshelev	12	1						
MT Wologastern Schiffahrtsgesellschaft mbH	6	Kara Sea - Mys Kamenny	6	Christophe de Margerie	8	1						
Northern Shipping Company	6	Saint-Nazaire - Sabetta	6	Fedor Litke	8	1						
MT Weichselstern Schiffahrtsgesellschaft mbH	5	Sabetta - Saint-Nazaire	5	Monchegorsk	8	1						
Sevnor Management	5	Amsterdam - Sabetta	3	Nadezhda	8	1						
DY Maritime	4	Murmansk - Sabetta	3	Norilsk Nickel	8	1						
Azia Shipping Company	2	Mys Kamenny - Kara Sea	3	Boris Vilkitkiy (LNG)	7	1						
MT THEMSESTERN SCHIFFFAHRTSGESELLSCHAFT MBH & CO.KG	2	Arkhangelsk - Salmandovskoe Field	2	Eduard Toll	7	1						
Reskom Tyumen	2	Dunkirk - Sabetta	2	Ioghan Makhmatal	6	1						
Rosmorport	2	Murmansk - Kara Sea	2	Wologastern	6	1						
Rosmorrechflot	1	Sabetta - Dunkirk	2	Polar King	5	1						
Total	278	Sabetta - Murmansk	2	Weichselstern	5	1						
		Yenisey Bay - Kara Sea	2	Yenisey	5	1						
		Arkhangelsk - Yenisey Bay	1	Zapolyarniy	5	1						
		Total	278	Indiga	4	1						
				Talakh	4	1						
				Vladimir Rusanov (LNG)	4	1						
				Yamal Irbis	4	1						
				Yurii Arshenevskiy	4	1						
				Andrey Osipov	3	1						
				Admiral Makarov	2	1						
				Themsestern	2	1						
				Valeriy Vasiliev	2	1						
				Yamal	2	1						
				Arktika-1	1	1						
				Arktika-2	1	1						
				Baltika	1	1						
				Yamal Krechet	1	1						
				Total	278	38						

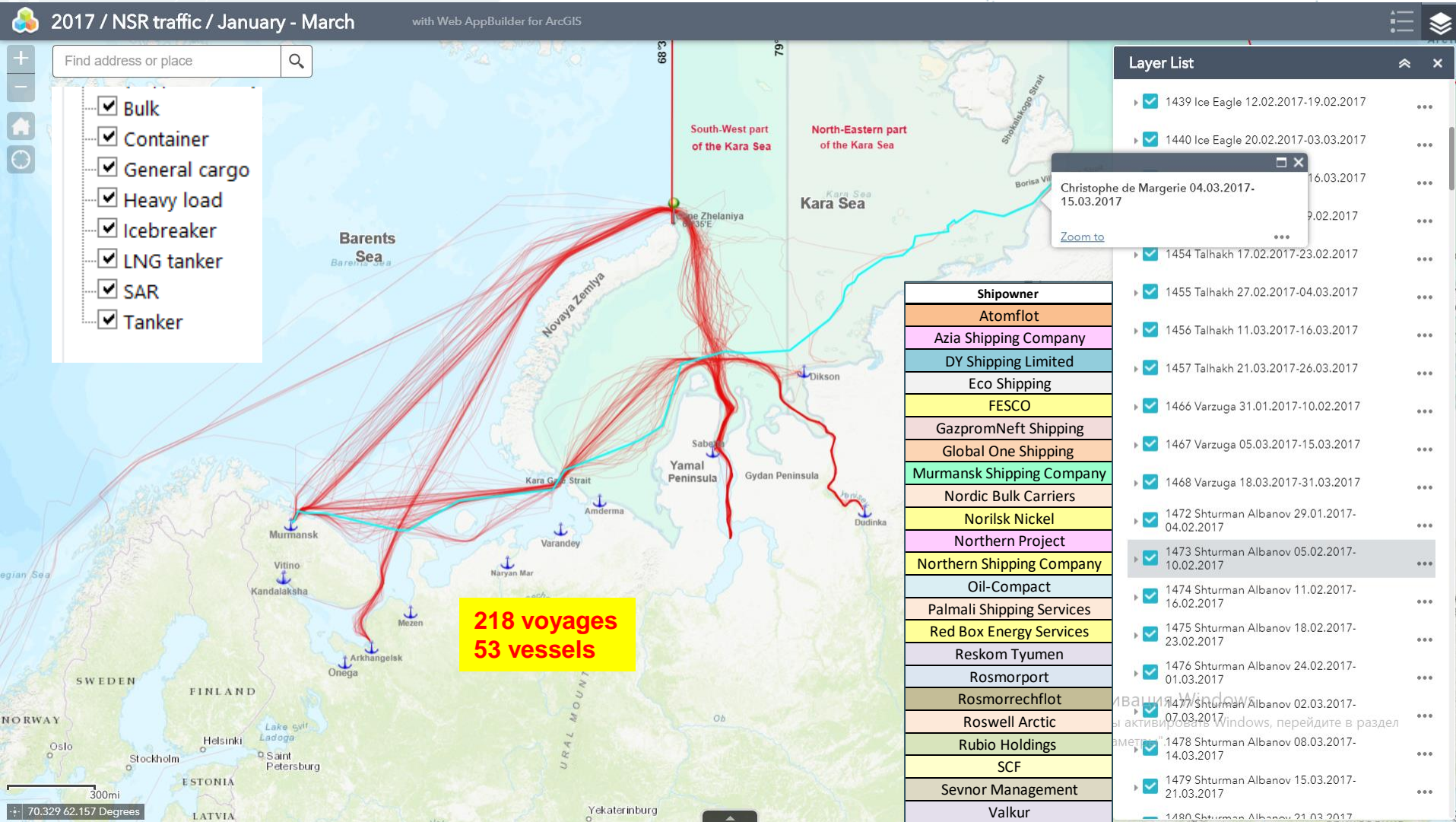
Count of DEPDate by Month



278 voyages
38 vessels

DEPDate	Nº	ArrivalPort	Nº
Murmansk	71	Murmansk	74
Mys Kamenny	58	Mys Kamenny	58
Sabetta	36	Sabetta	39
Kara Sea	27	Kara Sea	24
Dudinka	21	Dudinka	20
Arkhangelsk	20	Ob Bay	18
Ob Bay	16	Rotterdam	12
Rotterdam	8	Arkhangelsk	10
Saint-Nazaire	6	Saint-Nazaire	5
Yenisey Bay	5	Yenisey Bay	4
Amsterdam	3	Salmandovskoe Field	3
Dunkirk	2	Barents Sea	2
Dikson	1	Dunkirk	2
Isle of Grain	1	Bilbao	1
Milford Haven	1	Dikson	1
White Sea	1	Isle of Grain	1
Zeebrugge	1	Milford Haven	1
Total	278	Porvoo	1
		Vaasa	1
		Zeebrugge	1
		Total	278

Winter NSR traffic. 1st January – 1st April 2017



Winter NSR traffic. 1st January – 1st April 2019

Arctic Gate Terminal

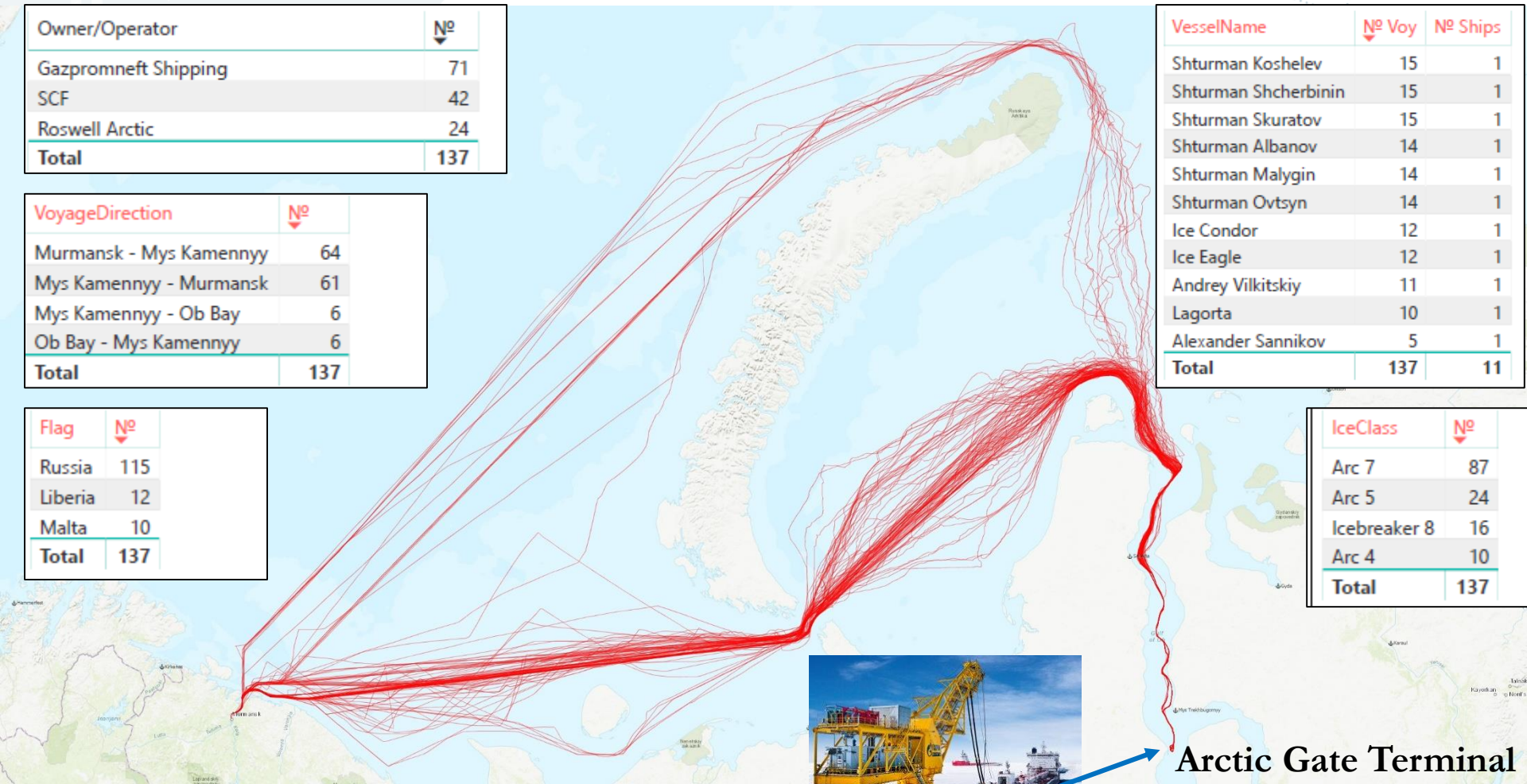
Owner/Operator	Nº
Gazpromneft Shipping	71
SCF	42
Roswell Arctic	24
Total	137

VoyageDirection	Nº
Murmansk - Mys Kamennyy	64
Mys Kamennyy - Murmansk	61
Mys Kamennyy - Ob Bay	6
Ob Bay - Mys Kamennyy	6
Total	137

Flag	Nº
Russia	115
Liberia	12
Malta	10
Total	137

VesselName	Nº Voy	Nº Ships
Shturman Koshelev	15	1
Shturman Shcherbinin	15	1
Shturman Skuratov	15	1
Shturman Albanov	14	1
Shturman Malygin	14	1
Shturman Ovtsyn	14	1
Ice Condor	12	1
Ice Eagle	12	1
Andrey Vilkitskiy	11	1
Lagorta	10	1
Alexander Sannikov	5	1
Total	137	11

IceClass	Nº
Arc 7	87
Arc 5	24
Icebreaker 8	16
Arc 4	10
Total	137



Winter NSR traffic. 1st January – 1st April 2019

Yamal LNG all traffic

- LNG from Sabetta to Honningsvåg / transshipment
- Return from Honningsvåg to Sabetta / cargo loading
- LNG from Sabetta to Europe

Owner/Operator	Nº
Dynagas	53
Teekay Shipping	26
ZELITIKO SHIPPING COMPANY	14
Arctic Blue LNG Shipping LTD,	13
Arctic Green LNG Shipping Ltd,	11
DY Maritime	1
Total	118

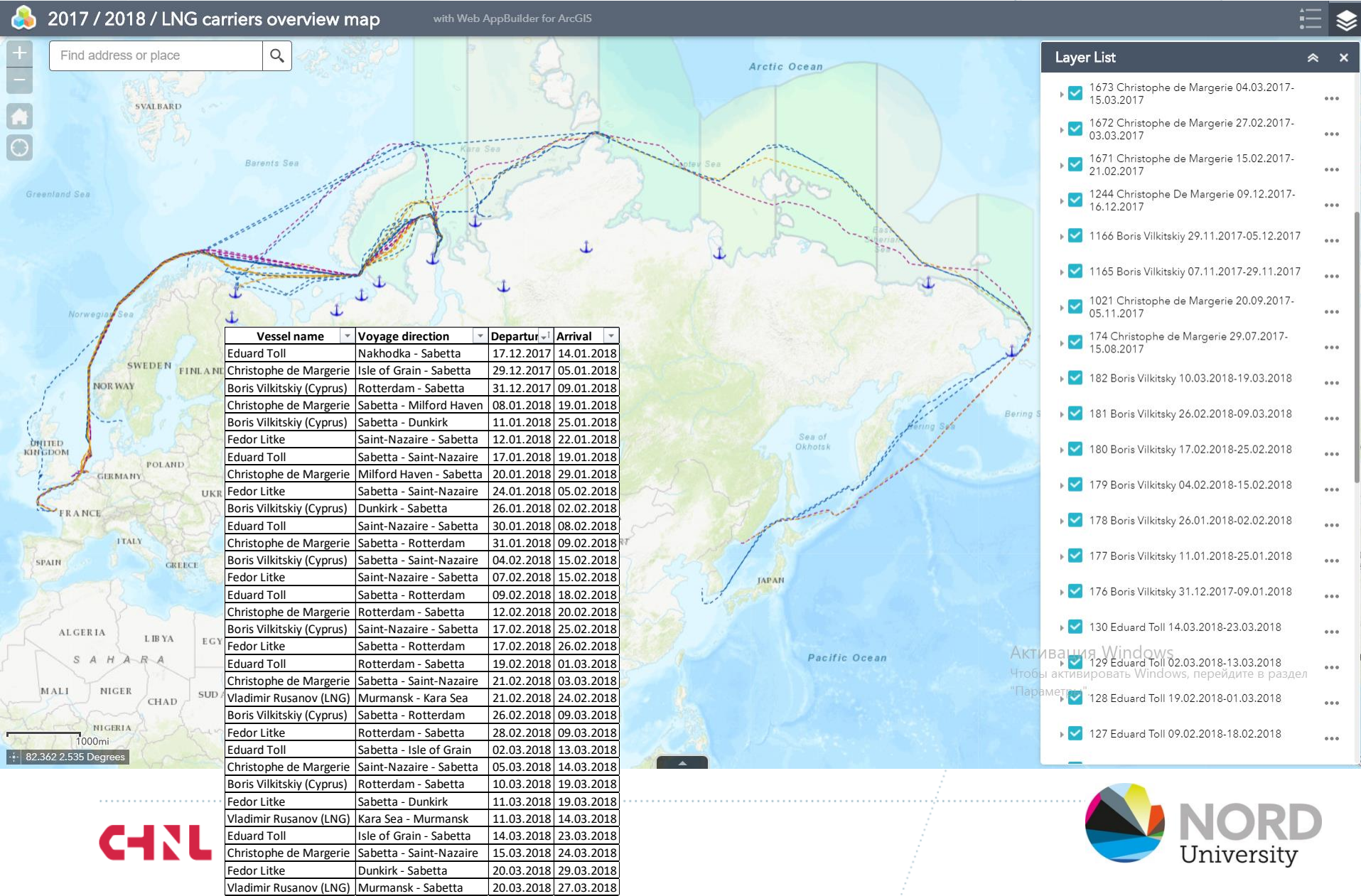
Flag	Nº
Cyprus	67
Bahamas	26
Hong Kong	25
Total	118

VesselName	DEPPort	DEPDate	ArrivalPort	ArrivalDate	Days
Georgiy Brusilov	Sabetta	01.02.2019	Honningsvåg	04.02.2019	3
Vladimir Vize	Sabetta	02.02.2019	Honningsvåg	06.02.2019	3
Vladimir Rusanov (LNG)	Sabetta	02.03.2019	Honningsvåg	09.03.2019	7
VesselName	DEPPort	DEPDate	ArrivalPort	ArrivalDate	Days
Weichselstern	Sabetta	04.01.2019	Rotterdam	16.01.2019	11
Themsestern	Sabetta	06.01.2019	Rotterdam	18.01.2019	11
Boris Sokolov	Sabetta	18.02.2019	Rotterdam	01.03.2019	11
Boris Vilkitkiy (LNG)	Sabetta	22.02.2019	Rotterdam	05.03.2019	10

VesselName	Nº Voy	Nº Ships
Christophe de Margerie	14	1
Rudolf Samoilovich	14	1
Vladimir Rusanov (LNG)	14	1
Boris Vilkitkiy (LNG)	13	1
Georgiy Brusilov	13	1
Eduard Toll	12	1
Fedor Litke	12	1
Vladimir Vize	11	1
Boris Davydov	9	1
Nikolay Zubov	6	1
Total	118	10

VoyageDirection	Nº
Sabetta - Honningsvåg	55
Honningsvåg - Sabetta	52
Murmansk - Sabetta	3
Sabetta - Rotterdam	2
Isle of Grain - Sabetta	1
Rotterdam - Sabetta	1
Sabetta - Dunkirk	1
Sabetta - Isle of Grain	1
Sabetta - Milford Haven	1
Sabetta - Murmansk	1
Total	118

2017 and Jan – March 2018 LNG carriers traffic



Winter NSR traffic. 1st January – 1st April 2019

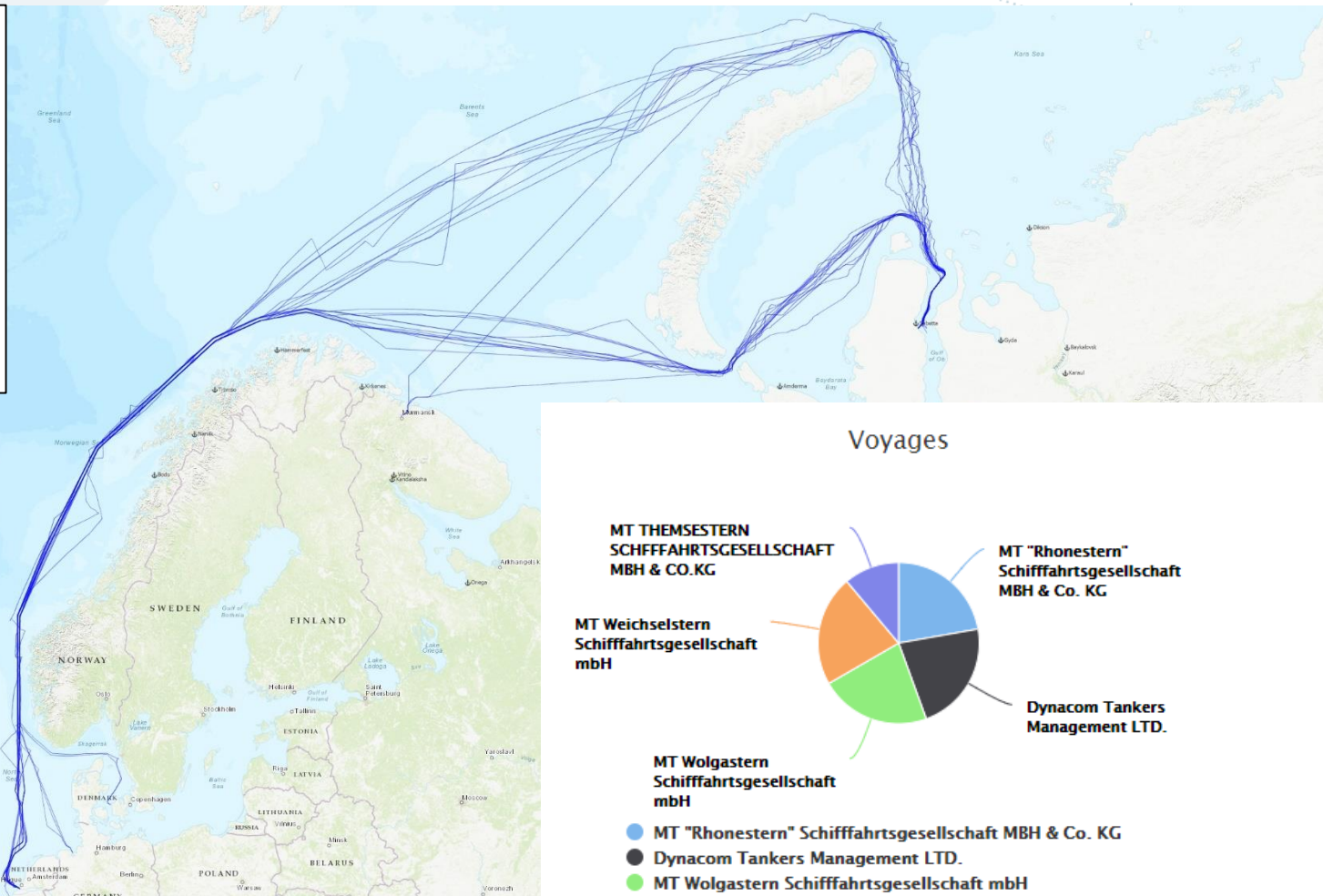
Gas Condensate from Sabetta

VoyageDirection	Nº
Rotterdam - Sabetta	8
Sabetta - Rotterdam	8
Kalundborg - Sabetta	2
Sabetta - Kalundborg	2
Sabetta - Murmansk	2
Sabetta - Wilhelmshaven	2
Antwerpen - Sabetta	1
Murmansk - Salmanovskoe Field	1
Wilhelmshaven - Sabetta	1
Total	27

VesselName	Nº Voy	Nº Ships
Boris Sokolov	6	1
Rhonestern	6	1
Weichselstern	6	1
Wolgastern	6	1
Themsestern	3	1
Total	27	5

IceClass	Nº
Arc 4	21
Arc 7	6
Total	27

Flag	Nº
Portugal	21
Cyprus	6
Total	27



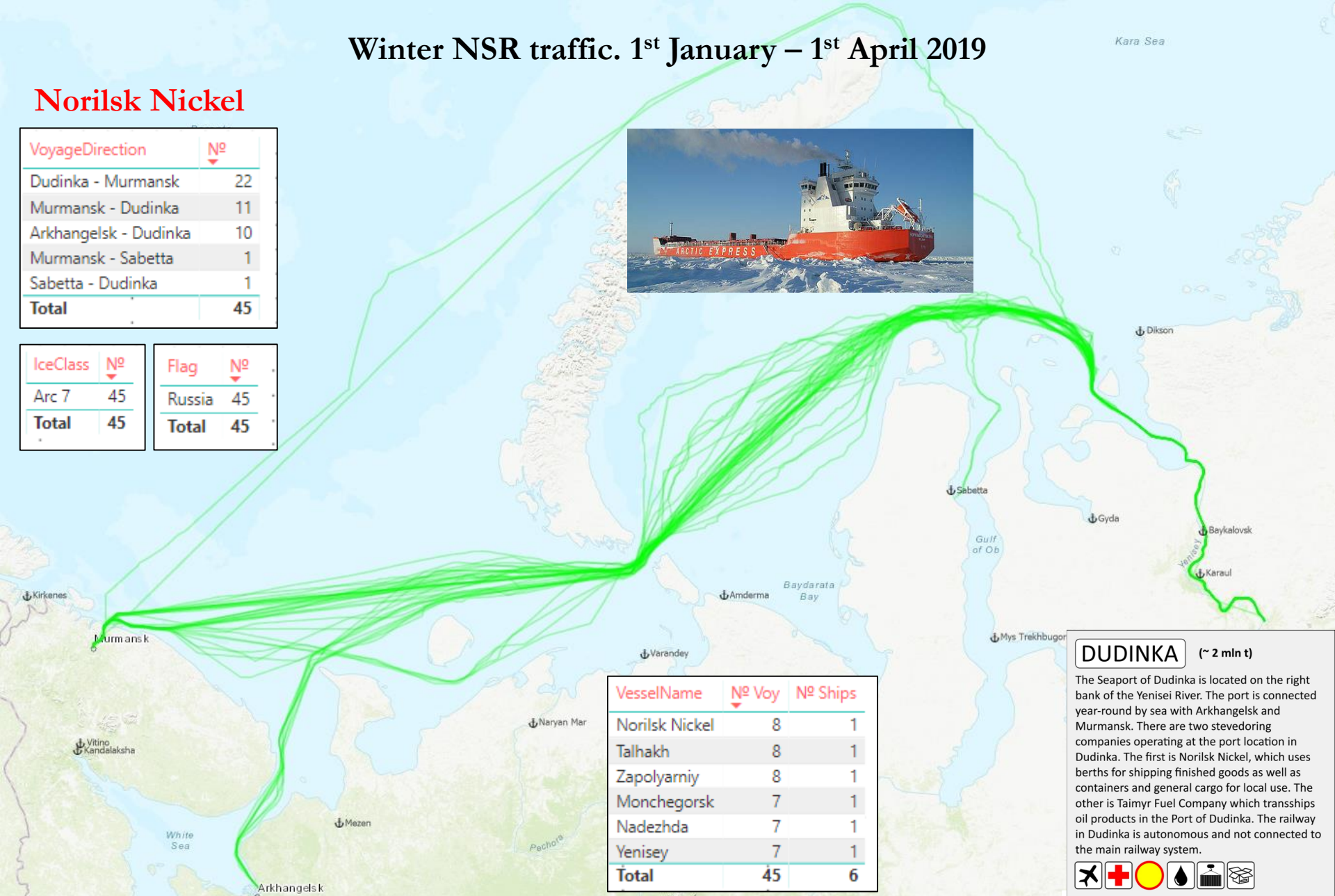
Winter NSR traffic. 1st January – 1st April 2019

Kara Sea

Norilsk Nickel

VoyageDirection	Nº
Dudinka - Murmansk	22
Murmansk - Dudinka	11
Arkhangelsk - Dudinka	10
Murmansk - Sabetta	1
Sabetta - Dudinka	1
Total	45

IceClass	Nº	Flag	Nº
Arc 7	45	Russia	45
Total	45	Total	45



VesselName	Nº Voy	Nº Ships
Norilsk Nickel	8	1
Tal'hakh	8	1
Zapolyarniy	8	1
Monchegorsk	7	1
Nadezhda	7	1
Yenisey	7	1
Total	45	6

DUDINKA (~ 2 mln t)

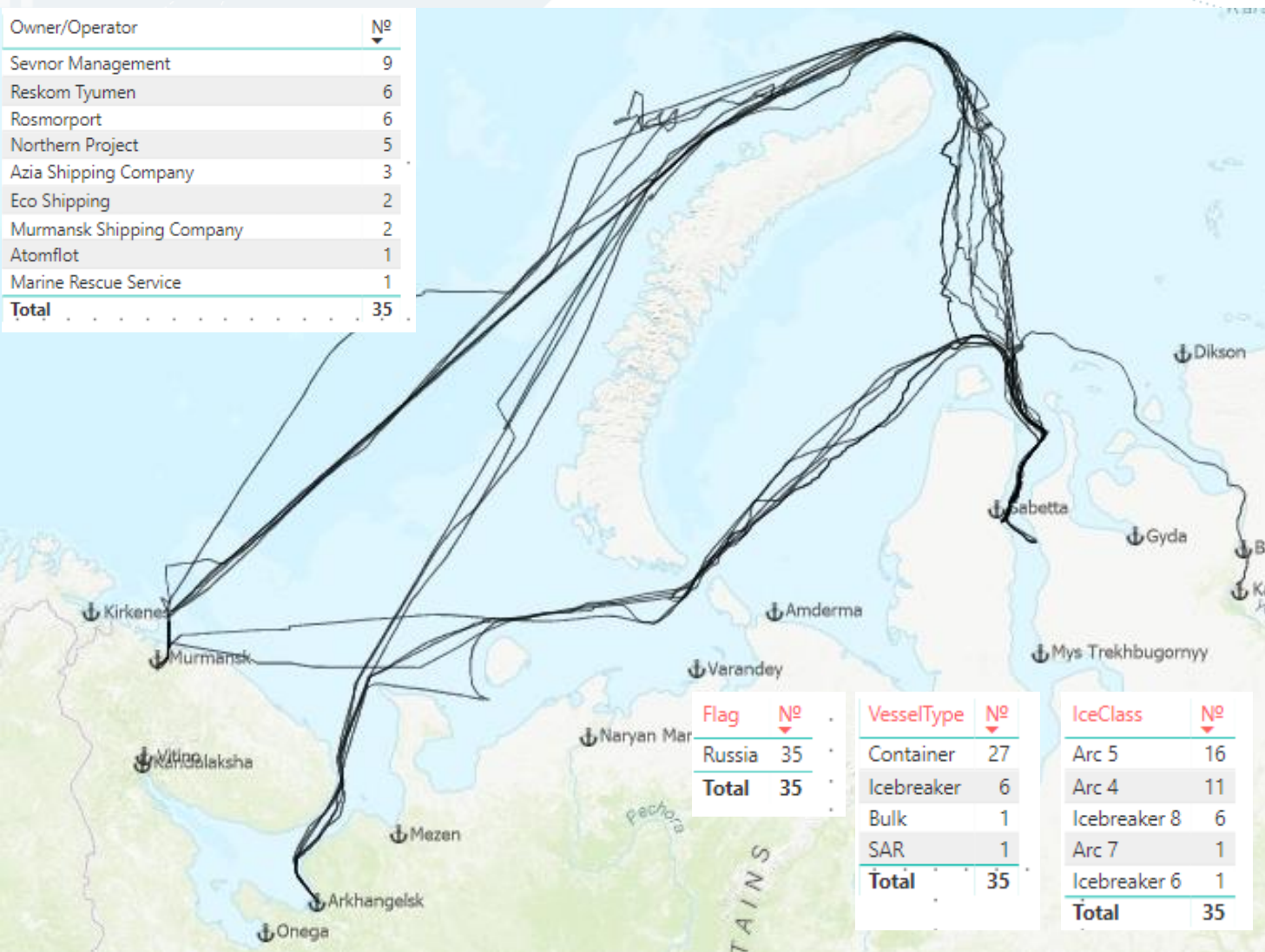
The Seaport of Dudinka is located on the right bank of the Yenisei River. The port is connected year-round by sea with Arkhangelsk and Murmansk. There are two stevedoring companies operating at the port location in Dudinka. The first is Norilsk Nickel, which uses berths for shipping finished goods as well as containers and general cargo for local use. The other is Taimyr Fuel Company which transships oil products in the Port of Dudinka. The railway in Dudinka is autonomous and not connected to the main railway system.



Winter NSR traffic. 1st January – 1st April 2019

Other Traffic

Owner/Operator	Nº
Sevnor Management	9
Reskom Tyumen	6
Rosmorport	6
Northern Project	5
Azia Shipping Company	3
Eco Shipping	2
Murmansk Shipping Company	2
Atomflot	1
Marine Rescue Service	1
Total	35



Flag	Nº
Russia	35
Total	35

VesselType	Nº
Container	27
Icebreaker	6
Bulk	1
SAR	1
Total	35

IceClass	Nº
Arc 5	16
Arc 4	11
Icebreaker 8	6
Arc 7	1
Icebreaker 6	1
Total	35

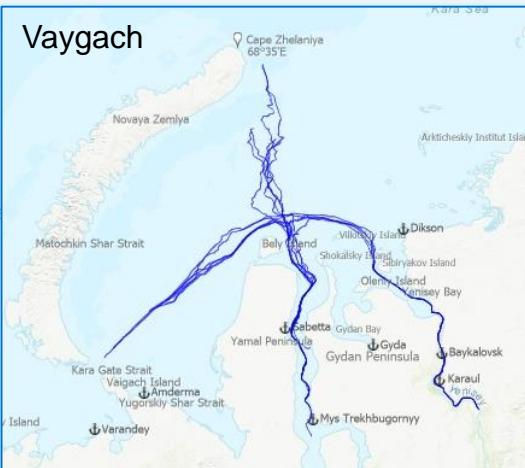
VoyageDirection	Nº
Sabetta - Murmansk	8
Arkhangelsk - Salmanovskoe Field	6
Salmanovskoe Field - Sabetta	4
Arkhangelsk - Sabetta	3
Kara Sea - Ob Bay	2
Murmansk - Sabetta	2
Ob Bay - Kara Sea	2
Sabetta - Arkhangelsk	2
Arkhangelsk - Mys Muksuninskiy	1
Barents Sea - Kara Sea	1
Kara Sea - Barents Sea	1
Murmansk - Salmanovskoe Field	1
Mys Kamenny - Mys Kamenny	1
Sabetta - Salmanovskoe Field	1
Total	35

VesselName	Nº Voy	Nº Ships
Krasin	6	1
Arktika-2	5	1
Yamal Krechet	5	1
Tambey	4	1
Yamal Irbis	4	1
Valeriy Vasiliev	3	1
Polar King	2	1
Arktika-1	1	1
Baltika	1	1
Novaya Zemlya	1	1
Sevmorput	1	1
Tiksi (GenCargo)	1	1
Yurii Arshenevskiy	1	1
Total	35	13

Winter NSR traffic. 1st January – 1st April 2019

Nuclear Icebreakers

Vaygach

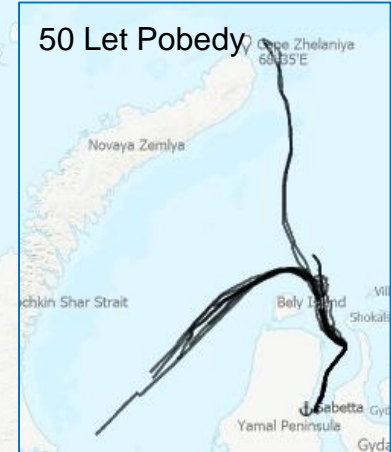


Taimyr

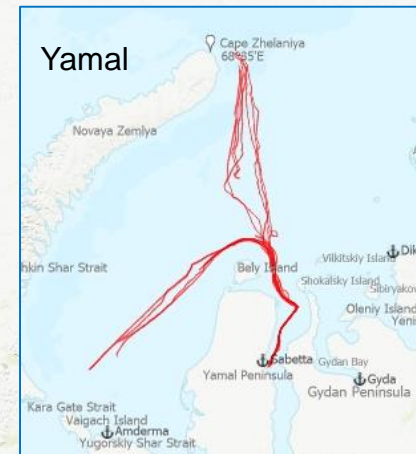


VesselName	Nº Voy	Nº Ships
50 let Pobedy	13	1
Taimyr (icebreaker)	19	1
Vaygach	13	1
Yamal	19	1
Total	64	4

50 Let Pobedy

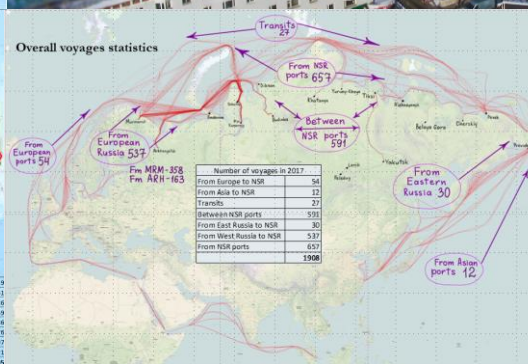
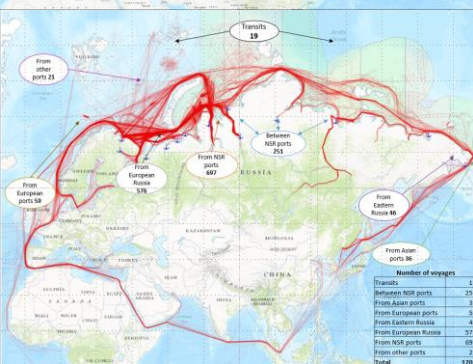
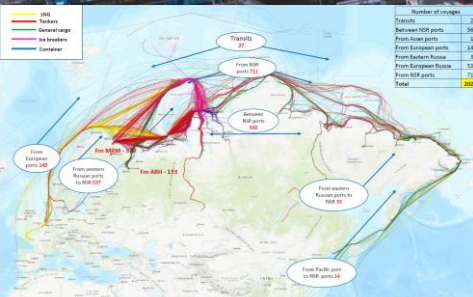


Yamal



CHNL's Information Office in Murmansk, Russia

<http://arctic-lio.com>





Thank you