

SHIPPING IN THE POLAR CODE AREA

RECENT TRENDS

HJALIT ÞÓR HREINSSON
PAME SECRETARIAT
PROJECT MANAGER

PAME
Protection of the Arctic Marine Environment



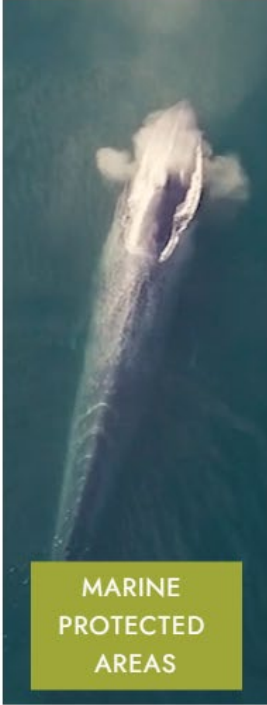
PAME

PROTECTION OF THE ARCTIC MARINE ENVIRONMENT



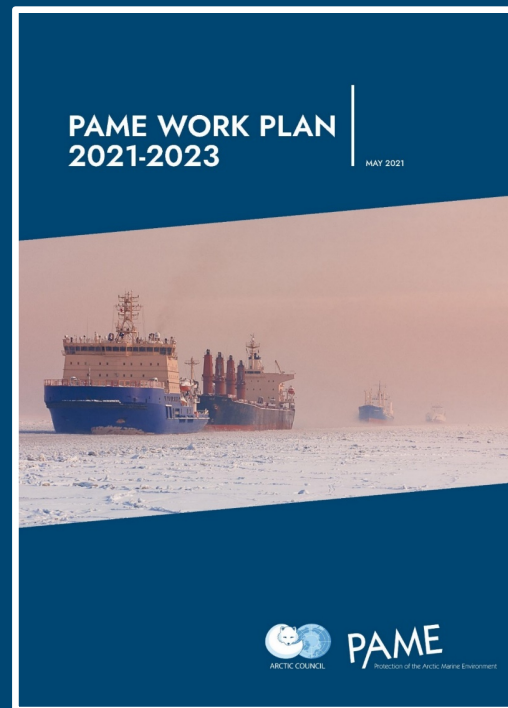
PAME

PROTECTION OF THE ARCTIC MARINE ENVIRONMENT



5 THEMATIC EXPERT GROUPS

PAME PROJECTS 2021-2023



Expert Group	Activites
Arctic Marine Shipping	12
Invasive Species	1
Marine Litter in the Arctic	4
Marine Protected Areas	6
Ecosystem Approach to Management	7
Resource Exploration & Development	4
Arctic Marine Strategic Plan, and more	5
	39

ASTD



- PAME's Arctic Shipping Database
- Provides data for research, analysis etc.
- Response to a growing need for reliable data
- Detailed data on:
 - Types of ships
 - Emissions
 - Ship tracks
 - Fuel
 - and much more

Data available, either:

PRE-ANALYZED

Seconds to display data
and produce maps

or

FTP DOWNLOAD

Own analysis

PAME

Protection of the Arctic Marine Environment

ASTD



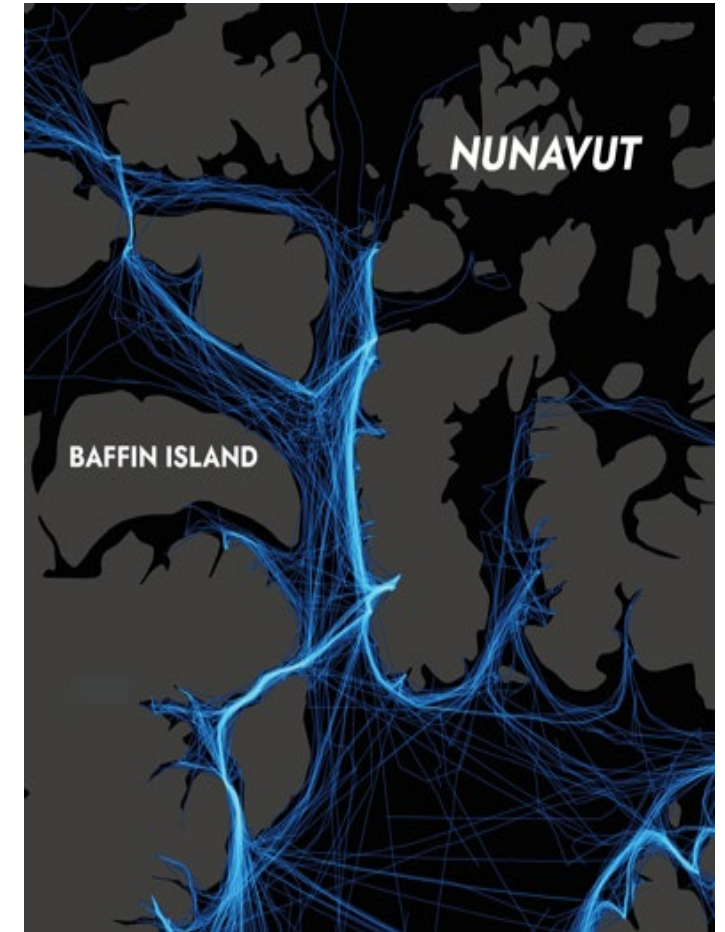
PAME
Protection of the Arctic Marine Environment

PRE-ANALYZED
Seconds to display data
and produce maps



or

FTP DOWNLOAD
Own analysis



SHIPPING IN THE POLAR CODE AREA IN 2020



NUMBER OF UNIQUE SHIPS

2020

1694

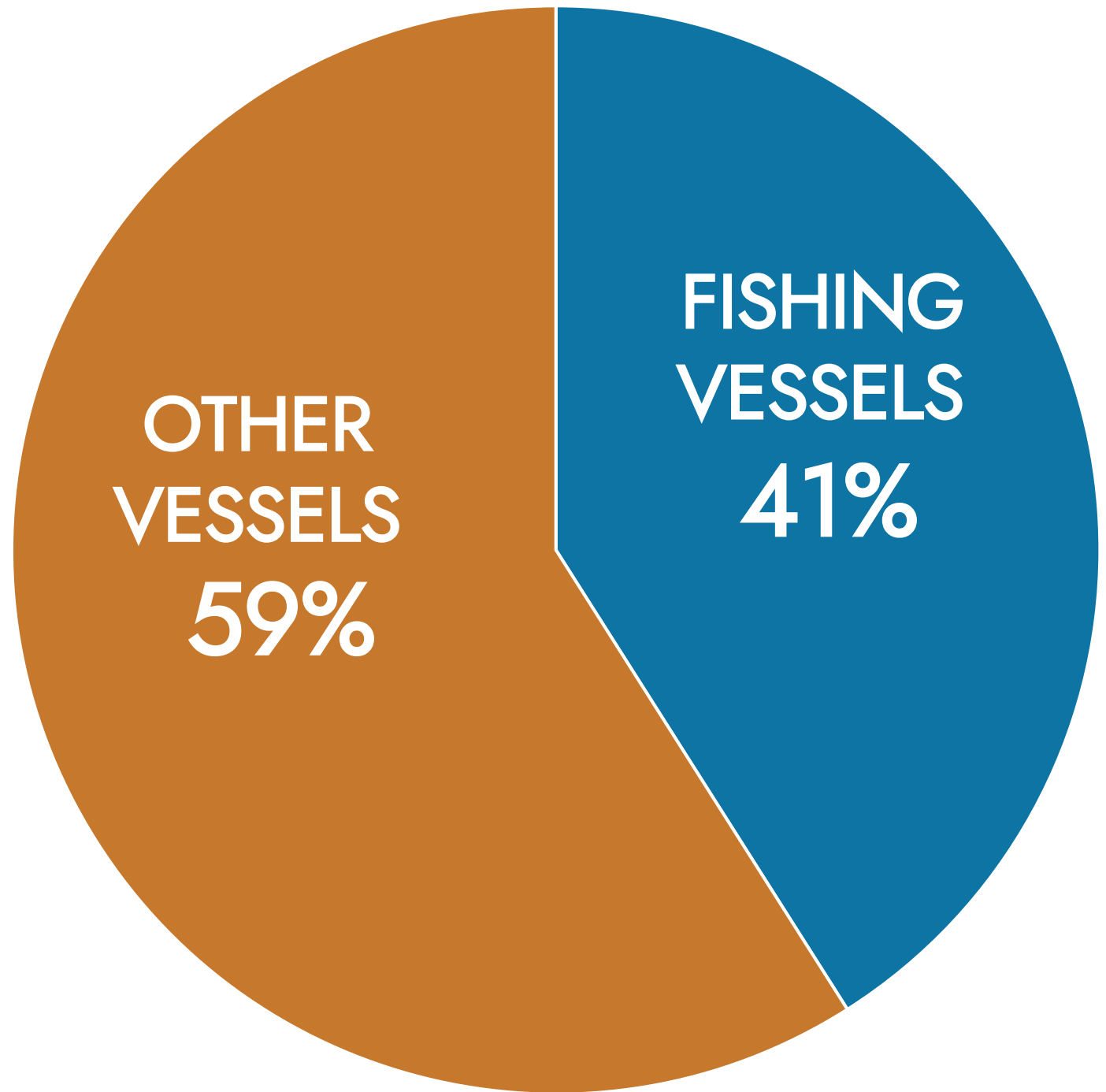
2019

1725



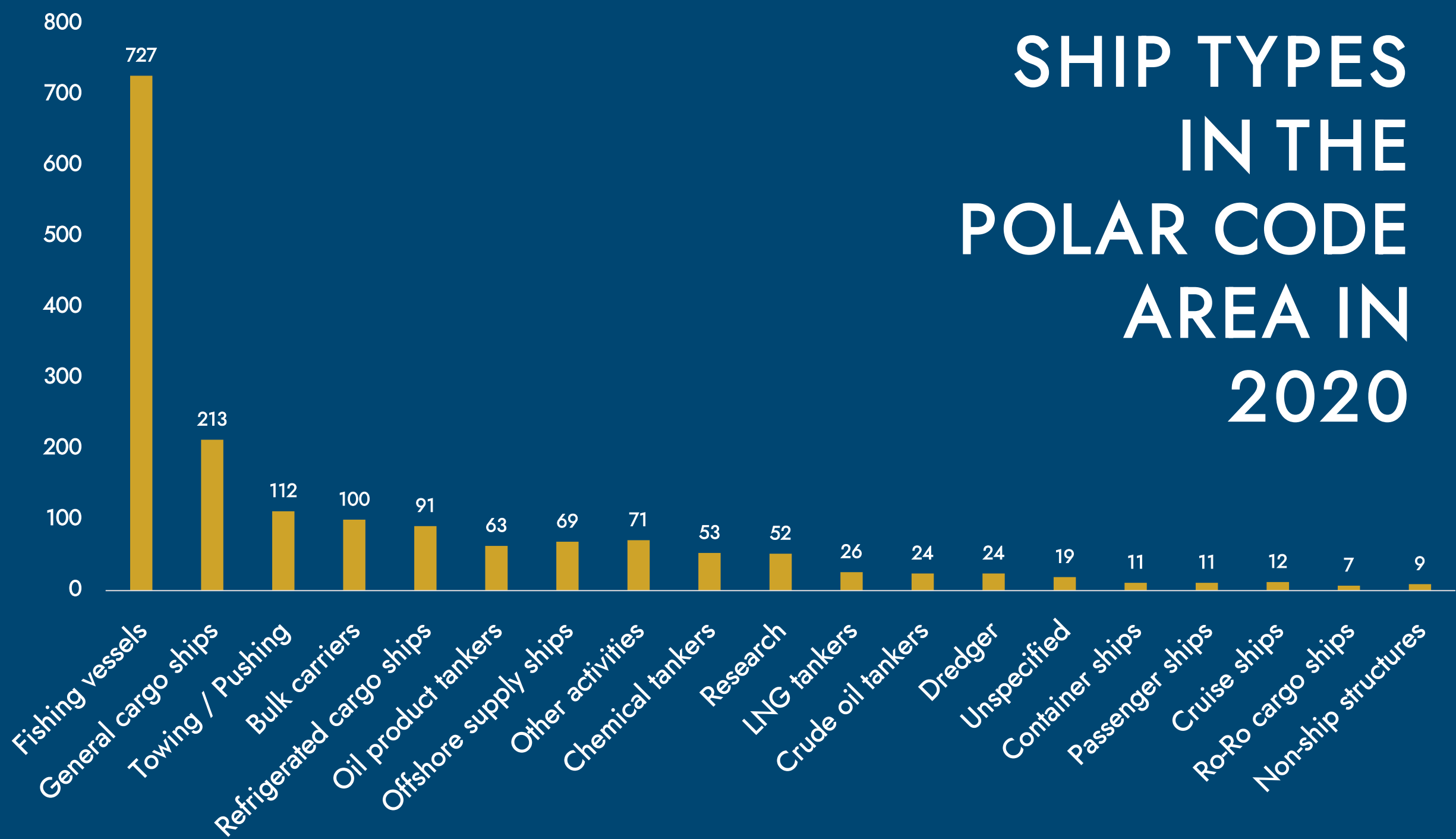
PAME
Protection of the Arctic Marine Environment

SHIPPING IN THE POLAR CODE AREA IN 2020



PAME
Protection of the Arctic Marine Environment

SHIP TYPES IN THE POLAR CODE AREA IN 2020



SHIPPING IN THE POLAR CODE AREA IN 2020

SHIP TYPES

Ship type	2020		2019		Change	Change %
Fishing vessels	727	41%	725	42%	2	0%
General cargo ships	213	13%	188	11%	25	13%
Towing / Pushing	112	7%	84	5%	28	33%
Bulk carriers	100	6%	149	9%	-49	-33%
Refrigerated cargo ships	91	5%	84	5%	7	8%
Oil product tankers	63	3%	82	5%	-19	-23%
Offshore supply ships	69	3%	54	3%	15	28%
Other activities	71	3%	58	3%	13	22%
Chemical tankers	53	3%	62	4%	-9	-15%
Research	52	3%	47	3%	5	11%
LNG tankers	26	2%	29	2%	-3	-10%
Crude oil tankers	24	1%	16	1%	8	50%
Dredger	24	1%	9	1%	15	167%
Unspecified	19	1%	0	0%	19	100%
Container ships	11	1%	12	1%	-1	-8%
Passenger ships	11	1%	98	6%	-87	-89%
Cruise ships	12	0.40%	14	1%	-2	-14%
Ro-Ro cargo ships	7	0.40%	6	0%	1	17%
Non-ship structures	9	0.30%	8	0%	1	13%
	1694	100%	1725	100%	-31	



PAME

Protection of the Arctic Marine Environment

SHIPPING IN THE POLAR CODE AREA IN 2020

SHIP TYPES

Ship type	2020		2019		Change	Change %
Fishing vessels	727	41%	725	42%	2	0%
General cargo ships	213	13%	188	11%	25	13%
Towing / Pushing	112	7%	84	5%	28	33%
Bulk carriers	100	6%	149	9%	-49	-33%
Refrigerated cargo ships	91	5%	84	5%	7	8%
Oil product tankers	63	3%	82	5%	-19	-23%
Offshore supply ships	69	3%	54	3%	15	28%
Other activities	71	3%	58	3%	13	22%
Chemical tankers	53	3%	62	4%	-9	-15%
Research	52	3%	47	3%	5	11%
LNG tankers	26	2%	29	2%	-3	-10%
Crude oil tankers	24	1%	16	1%	8	50%
Dredger	24	1%	9	1%	15	167%
Unspecified	19	1%	0	0%	19	100%
Container ships	11	1%	12	1%	-1	-8%
Passenger ships	11	1%	98	6%	-87	-89%
Cruise ships	12	0.40%	14	1%	-2	-14%
Ro-Ro cargo ships	7	0.40%	6	0%	1	17%
Non-ship structures	9	0.30%	8	0%	1	13%
	1694	100%	1725	100%	-31	



PAME

Protection of the Arctic Marine Environment

SHIPPING IN THE POLAR CODE AREA IN 2020

SHIP TYPES

Ship type	2020		2019		Change	Change %
	Count	%	Count	%		
Fishing vessels	727	41%	725	42%	2	0%
General cargo ships	213	13%	188	11%	25	13%
Towing / Pushing	112	7%	84	5%	28	33%
Bulk carriers	100	6%	149	9%	-49	-33%
Refrigerated cargo ships	91	5%	84	5%	7	8%
Oil product tankers	63	3%	82	5%	-19	-23%
Offshore supply ships	69	3%	54	3%	15	28%
Other activities	71	3%	58	3%	13	22%
Chemical tankers	53	3%	62	4%	-9	-15%
Research	52	3%	47	3%	5	11%
LNG tankers	26	2%	29	2%	-3	-10%
Crude oil tankers	24	1%	16	1%	8	50%
Dredger	24	1%	9	1%	15	167%
Unspecified	19	1%	0	0%	19	100%
Container ships	11	1%	12	1%	-1	-8%
Passenger ships	11	1%	98	6%	-87	-89%
Cruise ships	12	0.40%	14	1%	-2	-14%
Ro-Ro cargo ships	7	0.40%	6	0%	1	17%
Non-ship structures	9	0.30%	8	0%	1	13%
	1694	100%	1725	100%	-31	



PAME

Protection of the Arctic Marine Environment

SHIPPING IN THE POLAR CODE AREA IN 2020

SHIP TYPES

Ship type	2020		2019		Change	Change %
	Count	%	Count	%		
Fishing vessels	727	41%	725	42%	2	0%
General cargo ships	213	13%	188	11%	25	13%
Towing / Pushing	112	7%	84	5%	28	33%
Bulk carriers	100	6%	149	9%	-49	-33%
Refrigerated cargo ships	91	5%	84	5%	7	8%
Oil product tankers	63	3%	82	5%	-19	-23%
Offshore supply ships	69	3%	54	3%	15	28%
Other activities	71	3%	58	3%	13	22%
Chemical tankers	53	3%	62	4%	-9	-15%
Research	52	3%	47	3%	5	11%
LNG tankers	26	2%	29	2%	-3	-10%
Crude oil tankers	24	1%	16	1%	8	50%
Dredger	24	1%	9	1%	15	167%
Unspecified	19	1%	0	0%	19	100%
Container ships	11	1%	12	1%	-1	-8%
Passenger ships	11	1%	98	6%	-87	-89%
Cruise ships	12	0.40%	14	1%	-2	-14%
Ro-Ro cargo ships	7	0.40%	6	0%	1	17%
Non-ship structures	9	0.30%	8	0%	1	13%
	1694	100%	1725	100%	-31	



PAME
Protection of the Arctic Marine Environment

SHIPPING IN THE POLAR CODE AREA IN 2020

SHIP TYPES

Ship type	2020		2019		Change	Change %
	Count	%	Count	%		
Fishing vessels	727	41%	725	42%	2	0%
General cargo ships	213	13%	188	11%	25	13%
Towing / Pushing	112	7%	84	5%	28	33%
Bulk carriers	100	6%	149	9%	-49	-33%
Refrigerated cargo ships	91	5%	84	5%	7	8%
Oil product tankers	63	3%	82	5%	-19	-23%
Offshore supply ships	69	3%	54	3%	15	28%
Other activities	71	3%	58	3%	13	22%
Chemical tankers	53	3%	62	4%	-9	-15%
Research	52	3%	47	3%	5	11%
LNG tankers	26	2%	29	2%	-3	-10%
Crude oil tankers	24	1%	16	1%	8	50%
Dredger	24	1%	9	1%	15	167%
Unspecified	19	1%	0	0%	19	100%
Container ships	11	1%	12	1%	-1	-8%
Passenger ships	11	1%	98	6%	-87	-89%
Cruise ships	12	0.40%	14	1%	-2	-14%
Ro-Ro cargo ships	7	0.40%	6	0%	1	17%
Non-ship structures	9	0.30%	8	0%	1	13%
	1694	100%	1725	100%	-31	



PAME
Protection of the Arctic Marine Environment

FUTURE ADDITIONS TO PAME'S ARCTIC SHIPPING DATA

- New information on fuel use
- Accidents and spills by ships in the Arctic
- More reports from PAME:
 - Shipping in the Northern Sea Route
 - The Ship in the Arctic – Overviewing the ship types and what each ship type does
 - Flags of ships in the Arctic – Role and Responsibilities of flag States
 - Fishing vessels in the Arctic – Analysis of fishing areas

THANK
YOU

PAME
Protection of the Arctic Marine Environment

