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Russian Research Report for 2024

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Abbreviations

EEZ — exclusive economic zone (200 miles)
N/S-1 — non-serial fishing trawler, main engine power below 2000 HP
N/S-2 — non-serial fishing trawler, main engine power above 2000 HP
VME — vulnerable marine ecosystems

SUBAREAS 1+2

A. Status of Fisheries

Greenland halibut (*Reinhardtius hippoglossoides)*. In 2024, Greenland halibut fishery was not conducted since there was no bilateral Greenland-Russian consultations held on fishing quotas allocation for Russian vessels to operate in the Greenland EEZ.

Other fish species. There was no directed fishery for other fish species, primarily for the reason stated above.

B. Dedicated Research

In 2024, biological data on Greenland halibut from Divs. 1ABCD was not collected.

SUBAREA 3

A. Status of Fisheries

Greenland halibut. The directed fishery for Greenland halibut occurred from February to October, at depths ranging from 700 to 1240 meters. The trawl fishery was conducted by three Russian vessels. Catch rates for N/S-1 varied between 5.4 and 12.4 tonnes, with an average of 8.7 tonnes per day of fishing. Catch rates for N/S-2 varied between 17.0 and 20.7, with an average of 19.4 tonnes per day of fishing. In total, the annual yield of Greenland halibut taken by Russian fishing vessels in the directed fishery was 1429.5 tons (Table 1). The bycatch consisted of skate, Atlantic halibut, roundnose grenadier and shark (Table 2).

Atlantic cod in the Flemish Cap Bank (Division 3M). The directed fishery for Atlantic cod on the Flemish Cap Bank was carried out from May to September at depths of 160-460 meters by one N/S-1 vessel, achieving an

average daily catch rate of 9.6 tonnes. The yield of cod by Russian fishing vessels in the directed fishery was 259.7 tonnes. Additionally, 55.7 tonnes of cod were bycaught in the redfish fishery, along with 3.2 tonnes in the mixed fishery. The directed fishery for cod resulted in bycatch that included skate, American plaice, Atlantic halibut, and redfish (Table 4).

The overall cod catch by Russia in the specified division amounted to 318.7 tonnes (Table 1).

In Division 3L, 'northern' stock cod were exclusively bycaught during the redfish fishery. From 1 July to 31 December, the total cod catch amounted to 0.19 tonnes. The total yield amounted to 1.4 tonnes (Table 1).

Atlantic redfish in the Flemish Cap Bank. In 2024, a directed fishery for redfish on the Flemish Cap Bank was carried out by a single vessel operating at depths ranging from 150 to 610 meters, achieving a catch rate of 10.9 tonnes per day of fishing. Preliminary data indicates that Russian fishing vessels achieved a yield of 217.0 tonnes in the directed redfish fishery over the year. The bycatch consisted of skate, cod, American plaice and Atlantic halibut (Table 2). Additionally, 55.7 tonnes of redfish were captured as bycatch in the cod fishery, along with 3.5 tonnes in the mixed fishery. Preliminary data from the Polar Branch indicates that the total yield of redfish by Russia on the Flemish Cap Bank in 2024 was 313.9 tonnes (Table 1).

In Division 3O in 2024, a Russian N/S-1 type vessel in the southwest of The Grand Banks of Newfoundland operated intermittently from February to March at depths ranging from 240 to 440 meters, achieving an average daily catch rate of 18.3 tonnes. The total catch of redfish in the directed fishery amounted to 91.4 tonnes, with an additional 16.9 tonnes captured in the silver hake fishery and 2.1 tonnes in the mixed fishery. The overall catch of redfish by Russia amounted to 110.4 tonnes, in contrast to the national quota set at 6,500 tonnes (Table 1). The notable discrepancy between the actual catch and the estimated catch can be attributed to insufficient fishing effort.

In Division 3LN in 2024, the Russian directed fishery was conducted from January to October utilising one N/S-1 vessel operating at depths ranging from 120 to 530 meters, and from May to August, two N/S-2 vessels were employed in depths of 170 to 460 meters. The average productivity of the bottom trawl fishery for redfish was recorded at 25.8 tonnes per vessel-day. The peak productivity of the redfish fishery for N/S-1 vessels was recorded in January, achieving 27.1 tonnes per vessel-day. N/S-2 vessels exhibited the peak fishing productivity in July, reaching 39.8 tonnes per vessel-day.

In the directed fishery, preliminary data indicates that Russian vessels have captured 3970.4 tonnes of redfish. In the silver hake fishery, bycatch amounted to 14.7 tonnes of redfish, while in other fisheries, it reached 14.8 tonnes.

The total catch of redfish by Russia in Division 3LN amounted to 3999.9 tonnes (Table 1). A total of 181.2 tonnes of various fish species were bycaught, including 46.1 tonnes of Atlantic halibut (Table 3).

Yellowtail flounder. A directed fishery for yellowtail flounder took place in February at depths ranging from 50 to 70 meters. The average daily catch rate was 7.9 tonnes. Throughout the year, Russian vessels harvested 39.6 tonnes of this species in the directed fishery (Table 1). The bycatch consisted of 2.7 tonnes of skate, 1.5 tonnes of cod, 2.1 tonnes of American plaice, and 0.2 tonnes of sharks of an unspecified species.

Witch flounder. In 2024, there was no directed fishing effort for this species, and it was not found in bycatch.

Other species

Between May and October 2024, a single N/S-1 vessel conducted fishing activities for silver hake in Division 3NO. The depth range observed was between 110 and 330 meters, with peak productivity occurring in October, achieving 31.7 tonnes per vessel-day. The mean output of the hake fishery was recorded at 21.7 tonnes per vessel-day. The composition of bycatch comprised skate (11.6 tonnes), cod (0.4 tonnes), rocklings of the genus *Gaidropsarus* (13.2 tonnes), shark (1.0 tonnes), American plaice (1.5 tonnes), Atlantic halibut (2.1 tonnes), and redfish (31.6 tonnes). Hake was recorded as bycatch in the redfish fishery, totalling 3.4 tonnes, and in the mixed

fishery, amounting to 17.1 tonnes. The overall hake catch recorded by Russian vessels for the year 2024 amounted to 498.9 tonnes.

B. Dedicated Research

No surveys to assess the stocks of target species were carried out. Biological data were collected by NAFO observers onboard the Russian fishing vessels.

Greenland halibut (*Reinhardtius hippoglossoides*). In Division 3L, the catches included male specimens ranging from 24 to 68 cm in length, with an average length of 47.2 cm. Specimens of 48-50 cm prevailed (Table 5). Female specimens ranged in length from 26 to 100 cm, with an average length of 52.1 cm, with specimens 50-52 cm long being the most common.

The lengths of male halibut caught in Division 3M ranged from 32 to 66 cm, with the majority falling between 48 and 50 cm, resulting in an average length of 47.4 cm. Female specimens ranged from 32 to 110 cm in length, with an average of 54.8 cm, and the majority of specimens measured between 50 and 54 cm.

Halibut measuring between 28 and 58 cm for males and 24 to 78 cm for females were captured in Division 3N. The average lengths recorded were 43.1 cm for one group and 47.8 cm for another, with the most frequently observed measurements being 42-44 cm for males and 48-50 cm for females.

In Division 3LMNO overall, Greenland halibut exhibited lengths between 24 and 110 cm, with males averaging 47.2 cm and females averaging 53.0 cm. The ratio of males to females in the catches is 1:1.9 (Table 5). The ages of halibut varied from 3 to 21 years, with most specimens captured falling within the 6 to 8-year range (Table 6).

Acadian redfish (*Sebastes fasciatus)*. Redfish measuring between 17 and 41 cm were collected in Division 3L, with females showing an average length of 31.8 cm and males averaging 27.9 cm. The most frequently encountered specimens measured between 28 and 29 cm in length.

In Division 3M, redfish exhibited lengths varying from 14 to 45 cm, with males presenting an average length of 28.8 cm and females averaging 30.6 cm. Specimens measuring 29-30 cm in length were the most common.

In Division 3N, male redfish measuring between 15 and 34 cm (predominantly 24-25 cm) and females ranging from 14 to 39 cm (mainly 27-29 cm) were captured, with average lengths for males and females recorded at 24.7 and 27.9 cm, respectively.

The length of redfish in Division 3O varied from 15 to 38 cm (excluding juveniles), with males averaging 23.5 cm and females averaging 25.3 cm (Table 7).

The age of redfish in Divisions 3LN in 2024 varied from 3 to 20 years, with the majority of specimens captured falling within the 9 to 11-year range (Table 8).

In Division 3M, the age of redfish ranged from 8 to 20 years, with the most frequently observed specimens being 11 and 13 years old (Table 9).

In Division 3O, the age of redfish varied from 6 to 15 years, with the majority being 7 to 8 years old (Table 10).

Beaked redfish (*Sebastes mentella)*. In Division 3L, male redfish measured between 15 and 43 cm, with an average length of 23.5 cm, while females ranged from 16 to 45 cm, averaging 23.9 cm in length.

In Division 3M, male redfish exhibited a length range of 17 to 42 cm, with an average measurement of 29.7 cm. The length of females varied from 17 to 45 cm, with an average length of 31.6 cm.

In Division 3N, redfish exhibited lengths varying from 21 to 77 cm, with an average length of 29.8 cm for males and females (Table 11).

In Division 3M, the age of redfish varied from 6 to 19 years, with the most frequently observed age groups being 12-13 and 17-18 years old (Table 12). The age of beaked redfish in Divisions 3LN was found to vary from 6 to 18 years, with the majority being between 8 and 9 years (Table 13).

Golden redfish (*Sebastes norvegicus)*. In Division 3L, individual bycatches included females averaging 59.0 cm in length and males averaging 44.8 cm.

In Division 3M, this species was the most commonly observed in catches, exhibiting a length composition that ranged from 18 to 73 cm, with an average length of 40.8 cm for males and 46.2 cm for females.

In Division 3N, a limited number of golden redfish were recorded as a bycatch, with females measuring an average of 54.5 cm and males averaging 50.2 cm.

A solitary male golden redfish measuring 27 cm was recorded in Division 3O (Table 14).

Roughhead grenadier *(Macrourus berglax)*. Specimens measuring between 27 and 90 cm in length were captured in Division 3L, with an average size of 49.9 cm.

In Division 3M, the length of roughhead grenadier varied between 36 and 84 cm. Two specimens measuring 24 cm and 102 cm were also recorded. The average length of the roughhead grenadier measures 52.2 cm.

In Division 3N, the length of roughhead grenadier varied between 15 and 66 cm, with a mean length recorded at 43.9 cm (Table 15).

Roundnose grenadier *(Coryphaenoides rupestris).* The length composition of roundnose grenadier in the catches from Division 3L varied between 30 and 69 cm for both males and females. A solitary male measuring 78 cm in length was also recorded. The average length measured 49.3 cm for males and 48.0 cm for females.

In Division 3M, males were captured with lengths varying from 36 to 87 cm, resulting in an average length of 56.5 cm. The females exhibited a length range of 33-72 cm, with a mean measurement of 51.3 cm (Table 16).

A solitary male roundnose grenadier measuring 12 cm was documented in Division 3N.

Blue wolffish *(Anarhichas latifrons)*. Detected in limited quantities.

In Division 3L, the observed fish length ranged from 34 to 127 cm. The mean length was 69.9 cm.

In Division 3M, wolffish varied in length from 40 to 112 cm, with a mean length of 67.7 cm.

Division 3N catches consisted of wolffish measuring between 49 and 118 cm, with an average length of 82.2 cm.

Six wolffish specimens, measuring between 61 and 76 cm in length, with an average length of 67.0 cm, were documented in Division 3O (Table 17).

Spotted wolffish *(Anarhichas lupus)*. Two specimens were collected in Division 3L, measuring 46 cm and 58 cm in length.

Specimens measuring 43-112 cm were bycaught in Division 3M, with a mean length of 72.4 cm.

In Division 3N, spotted wolffish exhibited lengths ranging from 37 to 118 cm, with a mean length of 76.9 cm (Table 18).

Atlantic wolffish *(Anarhichas minor*). Division 3L exhibited bycatch lengths between 40 cm and 76 cm, with a mean length of 55.1 cm.

In catches from Division 3M, Atlantic wolffish exhibited lengths ranging from 49 to 82 cm, with a mean length of 64.1 cm.

The length of specimens in catches from Division 3N varied between 31 cm and 103 cm, with an average of 58.4 cm.

Five specimens, measuring between 43 and 67 cm in length, were collected in Division 3O (Table 19).

Atlantic halibut *(Hippoglossus hippoglossus)*. Atlantic halibut specimens measuring between 55 and 209 cm, with a mean length of 103.8 cm, were bycaught in Division 3L.

Halibut measuring between 67 and 153 cm were observed in Division 3M, with a mean length of 109.3 cm.

Atlantic halibut exhibited a higher prevalence in Division 3N compared to other divisions. The lengths varied between 51 cm and 205 cm, yielding a mean of 89.6 cm.

In Division 3O, Atlantic halibut exhibited a length range of 55 to 141 cm, with a mean length of 82.5 cm (Table 20).

Yellowtail flounder *(Limanda ferruginea)*. Observed in Division 3N, with lengths varying from 21 to 45 cm, predominantly between 29 and 33 cm. The average length was 31.6 cm (Table 21).

American plaice *(Hippoglossoides platessoides)*. It was bycaught in limited quantities across various catches.

In Division 3L, the length of American plaice varied from 29 to 57 cm, with a mean length of 39.1 cm.

Catches of American plaice in Division 3M exhibited lengths ranging from 41 to 61 cm, with a mean length of 50.9 cm.

In Division 3N, American plaice were bycaught with lengths ranging from 23 to 67 cm, predominantly between 35 and 37 cm, resulting in an average length of 38.7 cm.

Specimens measuring between 25 and 55 cm, with a mean length of 35.8 cm, were observed in Division 3O (Table 22).

Blue antimora *(Antimora rostrata)*. The size range in Division 3L included fish measuring between 31 and 59 cm in length, with an average length of 43.2 cm.

Antimora were bycaught in Division 3M, measuring between 19 and 63 cm, with a mean length of 46.8 cm.

Two specimens measuring 31 cm and 43 cm in length were recorded in Division 3O (Table 23).

Black dogfish *(Centroscyllium fabricii).* Lengths recorded in Division 3L varied from 52 to 76 cm, with a mean of 66.5 cm.

In Division 3M, fish lengths ranged from 52 to 79 cm, with a mean length of 66.2 cm.

Specimens from Division 3N exhibited lengths between 55 and 70 cm, with an average length of 62.6 cm (Table 24).

Boreal (Greenland) shark (*Somniosus microcephalus*). Occurrences in 2024 were as follows: one specimen measuring 340 cm in Division 3L, two specimens measuring 350 cm and 400 cm in Division 3M, and one specimen measuring 350 cm in Division 3N (Table 25).

Deepwater catshark *(Apristurus profundorum)*. Bycatch was recorded in limited quantities in Division 3L (length 49-82 cm, average 71.0 cm) and Division 3M (length 61-85 cm, average 73.9 cm) (Table 26).

Longnose velvet dogfish *(Centroscymnus crepidater)*. Bycatch in Division 3M included a total of 20 specimens, measuring between 61 and 82 cm, with an average length of 72.5 cm (Table 27).

White-spotted dogfish *(Squalus acanthias)*. Bycatch in Division 3N consisted of specimens measuring 64-85 cm in length, with an average length of 73.3 cm. In Division 3O, fish exhibited a length range of 70 to 85 cm, with a mean length of 77.0 cm (Table 28).

Porbeagle *(Lamna nasus)*. Were bycaught in in small quantities. Porbeagle in Division 3N exhibited lengths between 208 cm and 238 cm, with a single juvenile specimen measuring 15 cm influencing the mean length to 208.3 cm. The average length of sharks, excluding juveniles, was 231.3 cm. Specimens measuring 175-235 cm were identified in Division 3O, with a mean length of 209.8 cm (Table 29).

White hake *(Urophycis tenuis).* In Division 3N, hakes were bycaught with lengths between 37 and 77 cm, with an average length of 56.6 cm.

Division 3O was characterised by fish measuring 23-81 cm in length, with a predominance of specimens in the 51-53 cm range. The average length measured 50.4 cm (Table 30).

Red hake *(Urophycis chuss)*. Primarily bycaught in Division 3L. The lengths varied from 27 cm to 51 cm, predominantly between 39 cm and 43 cm, with a mean of 40.1 cm.

In Division 3M, fish exhibited lengths ranging from 29 to 51 cm, with a predominance of specimens measuring between 41 and 43 cm. The mean length was 40.2 cm.

In Division 3O, Red hake were bycaught in limited quantities, with lengths varying from 37 to 49 cm. Additionally, one specimen measuring 27 cm affected the average length, which was calculated at 41.6 cm (Table 31).

Longfin hake *(Phycis chesteri)*. Division 3L identified eight specimens of comparatively short length, measuring between 33 and 39 cm, with an average length of 37.0 cm.

In Division 3M, longfin hake exhibited lengths ranging from 31 to 39 cm, with a mean length of 35.9 cm.

In Division 3N, hake lengths were categorised into two groups: 31-41 cm and 57-67 cm, with average lengths of 36.1 cm for the first group and 63.0 cm for the second. The mean length of hake within the Division was 40.7 cm (Table 32).

Hakes measuring 35-57 cm were observed in Division 3O, with a mean length of 45.6 cm.

Three-bearded rockling *(Gaidropsarus ensis)*. Were bycaught in small quantities, with specimens in Division 3L measuring between 27 and 45 cm, and an average length of 38.8 cm. In Division 3M, the length of hake varied from 15 to 39 cm, with an average of 30.8 cm (Table 33).

Greater eelpout *(Lycodes esmarki)*. In Division 3L, eelpouts measuring between 41 and 63 cm were recorded in the catches, with a mean length of 53.8 cm.

In Division 3M, eelpouts exhibited lengths varying from 37 to 59 cm, with a mean length of 48.1 cm.

In Division 3L, the length varied from 29 to 53 cm, with a mean length of 44.7 cm.

A specimen measuring 65 cm was captured in Division 3O (Table 34).

Arctic eelpout *(Lycodes reticulatus)*. Primarily found in Division 3N, the length fell between 25 to 47 cm, with an average of 37.1 cm. A specimen measuring 43 cm was captured in Division 3L (Table 35).

Glacial eelpout *(Lycides frigidus)*. Specimens measuring 33-51 cm in length were observed in Division 3L, with a mean length of 45.1 cm. In Division 3M, eelpout measured between 35 and 49 cm, with a mean length of 40.7 cm (Table 36).

Nezumia *(Nezumia bairdii).* In Division 3L, the lengths of fish caught varied from 26 to 41 cm, with a mean length of 32.0 cm.

In Division 3M, lengths varied from 23 cm to 40 cm, with a mean of 33.0 cm.

In Division 3N, fish were observed in limited quantities, measuring between 28 and 39 cm in length, with an average of 33.8 cm (Table 37).

A specimen measuring 27 cm in length was documented in Division 3O.

Snubnosed spiny eel *(Notacanthus chemnitzii)*. Specimens were captured individually, with lengths ranging from 79 to 87 cm and an average of 83.0 cm in Division 3L. In Division 3M, lengths ranged from 53 to 101 cm, with an average of 80.3 cm. Division 3N and 3O each contained one specimen, measuring 59 cm and 80 cm in length, respectively (Table 38).

Starry skate *(Raja radiata)*. In Division 3, lengths varied from 37 to 82 cm, with a mean of 63.8 cm.
Skate lengths in Division 3M varied between 37 cm and 79 cm, with a mean of 56.7 cm.

In Division 3N, skate lengths ranged from 31 to 88 cm, with a mean length of 63.7 cm.

Division 3O exhibited skate lengths between 46 and 85 cm, with an average length of 73.1 cm (Table 39).
Arctic skate *(Raja hyperborea)*. Three specimens measuring 58, 61, and 70 cm were observed in Division 3L, while six specimens ranging from 70 to 96 cm were recorded in Division 3M.

Blue skate *(Dipturus batis)*. Specimens were bycaught individually, including one measuring 112 cm in Division 3L, three measuring 112 cm, 136 cm, and 145 cm in Division 3M, and one measuring 97 cm in Division 3N.

Smooth skate *(Malacoraja senta)*. Skate was observed in Divisions 3M (two specimens, 74 and 83 cm), 3N (one specimen, 57 cm), and 3O (five specimens, ranging from 54 to 57 cm).

Round ray *(Rajella fyllae)*. A specimen measuring 44 cm in length was documented in Division 3L.

Soft skate *(Malacoraja spinacidermis)*. Two specimens measuring 50 cm and 52 cm in length were documented in Division 3O.

Spinytail skate *(Raja spinicauda)*. Specimens measuring between 61 and 136 cm, with a mean length of 90.5 cm, were bycaught in Division 3L.

In Division 3M, skates measuring 46-91 cm in length were observed, with a mean length of 72.3 cm.

Skate length in Division 3N varied from 55 to 139 cm, with an average of 101.8 cm (Table 40).

Atlantic cod *(Gadus morhua)*. Specimens measuring between 38 and 92 cm were bycaught in Division 3L, with one specimen reaching 112 cm in length, resulting in an average length of 59.3 cm.

In Division 3M fisheries, the length composition of cod comprised specimens measuring between 30 and 140 cm in length, with a predominance of specimens in the 60-64 cm range. The mean length measured 66.3 cm.

In Division 3N, cod bycatch comprised fish ranging from 26 to 118 cm in length, with a mean length of 57.4 cm.

Division 3O was characterised by cod measuring 34-120 cm in length, with a mean length of 60.3 cm (Table 41).

Silver hake *(Merluccius bilinearis)*. In Division 3N, specimens varied in length from 24 to 50 cm, with an average of 30.0 cm, predominantly consisting of specimens measuring 28-30 cm. In Division 3O, hake length varied between 22 and 55 cm, predominantly measuring 28 to 29 cm, with a mean length of 29.7 cm (Table 42).

VME Indicator Species. Sponges and corals were documented during observer work on fishing vessels. In all instances, the weight of captured indicator species did not surpass the established threshold (Table 43).

Marine mammals. Atlantic white-sided dolphin (*Lagenorhynchus acutus*), sperm whale (*Physeter microcephalus*), humpback whale (*Megaptera novaengliae*), fin whale (*Balaenoptera physalus*), long-finned pilot whale (*Globicephala melas*), harp seal (*Phoca groenlandica*), common dolphin (*Delphinus delphis*), and dolphins of unidentified species were documented on fishing vessels from February to November as detailed in Table 44. A total of 42 registrations (encounters) were recorded (Table 45).

No discards occurred in the fisheries for major fish species.

Table 1. Preliminary catch values for the Russian fishing fleet in NAFO subareas 1-3 for the year 2024.

Species	Division	Catch in tonnes
Greenland halibut	1A	0
	1B	0
	1C	0
	1D	0
	1ABCD	**0**
Greenland halibut	3L	897.5
	3M	531.3
	3N	0.6
	3O	0
	3LMNO	**1429.5**
American plaice	3L	0.8
	3M	3.7
	3N	42.0
	3O	4.6
	3LMNO	**51.2**
Yellowtail flounder	3L	0
	3N	39.6
	3O	0
	3LNO	**39.6**
Witch flounder	3N	0
	3O	0
	3NO	0
Roughhead grenadier	3L	9.3
	3M	1.7
	3N	0.5
	3LN	**11.5**
Roundnose grenadier	3L	1.8
	3M	3.7
	3LM	**5.4**
Redfish	3L	424.7
	3M	313.9
	3N	3575.3
	3O	110.4
	3LMNO	**4424.3**
Skate	3L	14.8
	3M	4.9
	3N	51.6
	3O	11.3
	3LMNO	**82.6**
White hake	3N	1.9
	3O	2.3
	3NO	**4.2**
Cod	3L	1.4
	3M	318.7
	3N	32.2
	3O	3.8
	3LMNO	**356.1**
Atlantic halibut	3L	3.4
	3M	9.2
	3N	48.2
	3O	3.2
	3MNO	**64.0**
Silver hake	3N	117,3
	3O	381,6
	3NO	**498,9**

Table 2. Bycatches in the directed bottom fisheries for Greenland halibut by Russian vessels in NAFO 3LMNO Divisions for the year 2024.

Species	Weight in tonnes
Skate	0,100
Atlantic halibut	0,224
Grenadier (species not identified)	8,675
Roundnose grenadier	5,400
Roughhead grenadier	1,700
Boreal shark	0,800
Shark (species not identified)	0,600

Table 3. Bycatches in the directed bottom fisheries for redfish by Russian vessels in NAFO 3LMNO Divisions for the year 2024.

Species	Weight in tonnes
Divisions 3LN	
American plaice	38,362
Cod	31,943
Atlantic wolffish	1,527
Spotted wolffish	0,698
Skate	61,427
Roughhead grenadier	0,832
White hake	1,925
Rocklings	4,585
Atlantic halibut	51,197
Hake	0,279
Boreal shark	1,350
Shark (species not identified)	0,305
Division 3M	
Cod	55,740
Atlantic halibut	4,220
American plaice	1,203
Skate	2,400
Division 3O	
Skate	0,600
White hake	2,275
American plaice	3,543
Hake	3,148
Atlantic halibut	0,900
Cod	3,385
Total	
Skate	64,427
White hake	4,200
Rockling	4,585
American plaice	43,108
Cod	91,068
Atlantic halibut	56,317
Roughhead grenadier	0,832
Hake	3,427
Atlantic wolffish	1,527
Spotted wolffish	0,698
Boreal shark	1,350
Shark (species not identified)	0,305

Table 4. Bycatches in the directed bottom fisheries for Atlantic cod by Russian vessels in NAFO 3M Divisions for the year 2024.

Species	Weight in tonnes
Skate	2,300
American plaice	2,518
Atlantic halibut	4,820
Redfish	93,454

Table 5. Length composition of Greenland halibut from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length	3L			3M			3N			3O			3LMNO		
in cm	Females	Males	Total	Females	Males	Total	Females	Males	Total	Females	Males	Total	Females	Males	Total
24		1	1				1		1				1	1	2
26	1		1										1		1
28	1	1	2					1	1				1	2	3
30	3	5	8				2		2				5	5	10
32	22	30	52	5	8	13	1	2	3	2	1	3	30	41	71
34	42	54	96	24	38	62	2	3	5				68	95	163
36	58	73	131	36	56	92	8	13	21	1	1	2	103	143	246
38	125	165	290	111	92	203	13	14	27	2		2	251	271	522
40	255	263	518	141	99	240	15	20	35				411	382	793
42	425	428	853	160	195	355	20	39	59		1	1	605	663	1268
44	676	655	1331	303	256	559	24	39	63				1003	950	1953
46	896	778	1674	368	323	691	34	15	49				1298	1116	2414
48	1122	883	2005	515	393	908	43	21	64				1680	1297	2977
50	1191	936	2127	554	395	949	37	19	56				1782	1350	3132
52	1176	731	1907	523	324	847	21	7	28				1720	1062	2782
54	1083	438	1521	566	230	796	28	1	29				1677	669	2346
56	855	216	1071	519	123	642	19	2	21				1393	341	1734
58	647	117	764	454	63	517	8	1	9				1109	181	1290
60	468	42	510	362	22	384	8		8				838	64	902
62	351	10	361	279	13	292	2		2				632	23	655
64	295	2	297	246	3	249	2		2				543	5	548
66	231	3	234	199	1	200	1		1				431	4	435
68	168	1	169	196		196	3		3				367	1	368
70	117		117	129		129							246		246
72	83		83	105		105							188		188
74	48		48	88		88							136		136
76	36		36	48		48							84		84
78	29		29	50		50	1		1				80		80
80	16		16	50		50							66		66
82	22		22	29		29							51		51
84	14		14	23		23							37		37
86	5		5	10		10							15		15
88	7		7	11		11							18		18
90	2		2	5		5							7		7

92				7		7							7		7
94				4		4							4		4
96	1		1	1		1							2		2
100	1		1										1		1
110				1		1							1		1
Total	10472	5832	16304	6122	2634	8756	293	197	490	5	3	8	16892	8666	25558
Mean length in cm	52.1	47.2	50.3	54.8	47.4	52.6	47.8	43.1	45.9	34.7	36.2	35.3	53.0	47.2	51.0

Table 6. Length and age composition of Greenland halibut from Russian trawl catches in NAFO Divisions 3LMNO for the year 2024.

Length in cm	Age																			Total
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
30		1	1																	2
32	1	5		1																7
34		14	7																	21
36		6	17	1																24
38		5	24	15	1															45
40		3	37	36	4															80
42			13	54	12	1														80
44		1	2	39	25	1														68
46			1	16	40	7														64
48				4	28	36	1													69
50					7	53	7													67
52					7	51	17													75
54					1	27	41	2												71
56						3	32	24	2											61
58							17	27	10											54
60							2	16	20	1										39
62							2	6	19	5										32
64									14	21	2	1			1					39
66									3	18	5									26
68									1	6	15									22
70											8	3								11
72										2	6	16	1							25
74												7	2							9
76												2	3							5
78													6	5	1					12
80												1		4	3					8
82														1		1				2
84														1	2	2				5
86															1	1	1			3
88																	1			1
90																		1		1
92																			1	1
94																			1	1
Total	1	35	102	166	125	179	119	75	69	53	36	30	12	11	8	4	2	1	2	1030
Mean length in cm	32.0	34.9	38.3	41.6	45.6	50.2	54.4	57.6	60.9	64.8	68.3	71.9	75.8	79.1	79.0	83.8	86.0	89.0	92.0	**51.5**
Average weight in grams	220	322.7	447.3	585.9	786.5	1054.1	1340.0	1638.2	1964.3	2394.8	2948.9	3475.7	4153.8	4824.5	4957.5	6422.5	6655.0	7130.0	8890.0	**1362.2**

Table 7. Length composition of Acadian redfish (*Sebastes fasciatus)* from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L			3M				3N			3O				3LMNO			
	Females	Males	Total	Females	Males	Juveniles	Total	Females	Males	Total	Females	Males	Juveniles	Total	Females	Males	Juveniles	Total
11													1	1			1	1
14					1	1	2	3	2	5					3	3	1	7
15									1	1	1	3		4	1	4		5
16								1	1	2	1	2		3	2	3		5
17	1		1	4	1		5	7	6	13	3	3		6	15	10		25
18				3	2		5	33	24	57	14	13		27	50	39		89
19				4	6		10	71	100	171	23	23		46	98	129		227
20				5	11		16	185	227	412	29	40		69	219	278		497
21	1	2	3	9	9		18	359	492	851	98	137		235	467	640		1107
22	2	4	6	15	13		28	575	972	1547	150	195		345	742	1184		1926
23	5	17	22	21	25		46	797	2134	2931	184	231		415	1007	2407		3414
24	15	53	68	24	43		67	902	4269	5171	174	267		441	1115	4632		5747
25	41	129	170	41	59		100	995	4839	5834	140	193		333	1217	5220		6437
26	52	235	287	64	87		151	1761	3150	4911	140	132		272	2017	3604		5621
27	72	346	418	80	169		249	2997	1552	4549	101	69		170	3250	2136		5386
28	93	389	482	88	214		302	4045	652	4697	107	20		127	4333	1275		5608
29	156	297	453	136	246		382	3548	208	3756	116	10		126	3956	761		4717
30	193	218	411	135	279		414	2477	79	2556	70	3		73	2875	579		3454
31	252	133	385	119	183		302	1429	8	1437	58			58	1858	324		2182
32	277	53	330	105	101		206	856	2	858	29			29	1267	156		1423
33	265	13	278	91	50		141	517	1	518	15			15	888	64		952
34	220	1	221	75	15		90	314	1	315	11			11	620	17		637
35	148		148	64	10		74	163		163					375	10		385
36	105	1	106	53	7		60	70		70					228	8		236
37	66	1	67	49	8		57	27		27					142	9		151
38	33		33	28	4		32	9		9	1			1	71	4		75
39	22		22	12	3		15	5		5					39	3		42
40	5		5	7			7								12			12
41	3		3	6			6								9			9
42				2			2								2			2
43				3			3								3			3
45				1			1								1			1
Total	2027	1892	3919	1244	1546	1	2791	22146	18720	40866	1465	1341	1	2807	26882	23499	2	50383
Mean length in cm	31.8	27.9	30.0	30.6	28.8	14.0	29.6	27.9	24.7	26.4	25.3	23.52	11.0	24.5	28.2	25.2	12.5	26.8

Table 8. Length and age composition of Acadian redfish (*Sebastes fasciatus)* from Russian trawl catches in NAFO 3LN Divisions for 2024.

Length in cm	Age																		Total
	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
14	1																		1
16		1																	1
17			2																2
18				1															1
19			2	2	2														6
20			2	2	4	3		1											12
21			1	5	11	13													30
22		1	3	5	21	13	6	1											50
23		1	2	4	20	19	11	1											58
24				5	12	31	31	8	2										89
25				2	19	16	51	21	4	1									114
26	1			4	7	12	48	19	10	4	1	1							107
27		1			4	13	26	44	24	6	1								119
28						11	11	34	47	17	3								123
29						2	14	14	41	34	14								119
30	1						1	3	14	34	20	6	1	1					81
31								1	11	19	22	1	3	4					61
32								1	1	7	10	7	2	1	2		1	1	33
33							1		2	1	10	11	5	1	1	1			33
34									1	2	5	3	8						19
35											1		6	2		1			10
36									1				3			1	1		6
37														3	3				6
38																1			1
40																1			1
Total	3	4	12	30	100	133	200	148	158	125	87	29	28	12	6	5	2	1	1083
Mean length in cm	23.3	22.0	20.4	22.6	23.3	24.3	25.7	27.0	28.5	29.6	30.9	31.9	33.7	33.3	34.7	36.4	34.0	32.0	**27.2**
Mean weight in grams	202	154.8	114.8	156.4	169.8	194.2	229.9	261.5	315.9	350.3	403.1	446.8	520.1	517.9	635.8	666.6	585	410	**282.5**

Table 9. Length and age composition of Acadian redfish (*Sebastes fasciatus)* from Russian trawl catches in NAFO 3O Division for 2024.

Length in cm	**Age**										**Total**
	6	7	8	9	10	11	12	13	14	15	
17	1										1
19	2	1									3
20		1	2								3
21	1	2	1								4
22		2	1								3
23		3	4	1							8
24		4	1	2							7
25		1	3	2	1						7
26			2	1	2						5
27			1	1	2	2					6
28			2			2	2				6
29				2	1	1	1				5
30					2	1		2			5
31					1		2	2			5
32							2				2
33								1	1	1	
34							1	1			2
Total	4	14	17	9	9	6	8	6	1	1	75
Mean length in cm	19.1	22.5	24.3	25.8	28.1	28.3	30.7	31.7	33	33	**26.2**
Mean weight in grams	87.5	147.9	201.5	247.8	325	301.7	406.3	455	510	510	**264.1**

Table 10. Length and age composition of Acadian redfish (*Sebastes fasciatus)* from Russian trawl catches in NAFO 3M Division for 2024.

Length in cm	**Age**										**Total**
	8	9	10	11	12	13	14	15	16	20	
23	1										1
24		2									2
25		1									1
26			2	1							3
27				2							2
28			1	3							4
29				4	2	3					9
30				1		2	2				5
31						2	2				4
32						3	4	2			9
33								4	1		5
34								1			1
35								1			1
36									2		2
41										1	1
Total	1	3	3	11	2	10	8	8	3	1	50
Mean length in cm	23	24.7	27.3	28.6	29.6	30.9	31.8	33.8	35.3	41	**30.7**
Mean weight in grams	170	240	306.7	332.7	390	434.5	482.5	558.1	628.3	1075	**437.6**

Table 11. Length composition of beaked redfish (*Sebastes mentella)* from Russian trawl catches in NAFO 3LMN Divisions for the year 2024.

Length in cm	3L			3M			3N			3LMN		
	Females	Males	Total	Females	Males	Total	Females	Males	Total	Females	Males	Total
15		1	1								1	1
16	1	1	2							1	1	2
17	1	4	5	1	1	2				2	5	7
18	9	5	14	1	2	3				10	7	17
19	12	17	29		2	2				12	19	31
20	25	30	55	2	2	4				27	32	59
21	82	102	184		1	1		1	1	82	104	186
22	214	180	394	1	9	10	2	1	3	217	190	407
23	366	346	712	2	6	8	16	10	26	384	362	746
24	393	415	808	5	5	10	2	4	6	400	424	824
25	263	244	507	4	5	9	3	1	4	270	250	520
26	86	59	145	6	23	29				92	82	174
27	39	11	50	26	50	76				65	61	126
28	18	10	28	56	115	171				74	125	199
29	9	1	10	110	165	275				119	166	285
30	5	2	7	85	140	225	1		1	91	142	233
31	3	1	4	59	96	155				62	97	159
32	1	1	2	48	56	104				49	57	106
33	1	1	2	28	34	62				29	35	64
34	1		1	26	18	44	2	1	3	29	19	48
35	1	1	2	33	15	48	1	2	3	35	18	53
36	2		2	31	10	41	1	6	7	34	16	50
37	1	2	3	25	6	31	1		1	27	8	35
38	4		4	12	5	17	1	2	3	17	7	24
39	4	1	5	13		13	4		4	21	1	22
40	4	2	6	3	1	4	2	3	5	9	6	15
41	1	1	2	7	1	8	4		4	12	2	14
42				7	1	8	1	1	2	8	2	10
43	3	1	4	4		4				7	1	8
44				2		2				2		2
45	1		1	2		2				3		3
Total	1550	1439	2989	599	769	1368	41	32	73	2190	2240	4430
Mean length in cm	23.87	23.52	23.7	31.57	29.66	30.5	29.78	29.75	29.8	26.09	25.71	25.9

Table 12. Length and age composition of beaked redfish (*Sebastes mentella)* from Russian trawl catches in NAFO 3M Division for 2024.

Length in cm	Age											Total
	6	9	10	11	12	13	14	16	17	18	19	
16	1											1
18	1											1
20	1											1
23		1										1
27			1	3		1						5
28					4	1						5
29				1		1						2
30					1	2						3
31						1	4					5
32						1						1
34									2			2
35								3		1		4
36									2			2
37										2		2
38										1	1	2
39									1	1		2
Total	3	1	1	4	5	7	4	3	5	5	1	39
Mean length in cm	18.6	23.1	27.5	28	28.8	29.9	31.4	35.3	36.3	37.6	38.2	**31.0**
Mean weight in grams	70	150	260	292.5	307	357.1	417.5	583.3	697	732	855	**442.2**

Table 13. Length and age composition of beaked redfish (*Sebastes mentella)* from Russian trawl catches in NAFO 3LN Division for 2024.

Length in cm	**Age**								**Total**
	6	7	8	9	10	11	17	18	
17	1								1
18		1							1
19	1								1
21			2						2
22			2						2
23			1	2					3
24			1		1				2
25				2	2	2			6
36							1	1	2
Total	2	1	6	4	3	2	1	1	20
Mean length in cm	18.5	18.5	22.6	24.3	25.3	25.4	36.9	36.4	**24.4**
Mean weight in grams	82.5	75	142.5	177.5	210	220	695	645	**210.8**

Table 14. Length composition of golden redfish (*Sebastes norvegicus)* from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L			3M			3N			3O	3LMNO		
	Females	Males	Total	Females	Males	Total	Females	Males	Total	Males	Females	Males	Total
18				1		1					1		1
23					2	2		1	1			3	3
24					1	1						1	1
26					1	1						1	1
27										1		1	1
28				1	2	3					1	2	3
29				1		1					1		1
30				2	3	5	1		1		3	3	6
31					1	1	1		1		1	1	2
32		1	1	1	3	4					1	4	5
33				7	5	12					7	5	12
34				2		2					2		2
35				4	3	7					4	3	7
36				1	1	2					1	1	2
37				4	4	8		1	1		4	5	9
38		1	1	3	7	10					3	8	11
39				8	6	14					8	6	14
40				6	7	13					6	7	13
41				7	9	16		1	1		7	10	17
42				8	21	29		1	1		8	22	30
43				9	10	19					9	10	19
44				7	11	18					7	11	18
45				8	12	20					8	12	20
46		1	1	10	7	17	2		2		12	8	20
47				15	3	18	1		1		16	3	19
48		1	1	23	5	28	1	2	3		24	8	32
49				15	2	17	1		1		16	2	18
50				17	1	18		1	1		17	2	19
51				23		23	4	2	6		27	2	29
52				16		16	4	1	5		20	1	21
53				13	1	14	2		2		15	1	16
54				3		3	4	1	5		7	1	8
55				9		9	2	1	3		11	1	12

56	1		1	1		1	5		5		7		7
57							4		4		4		4
58	1		1	2		2	6		6		9		9
60		1	1				5	2	7		5	3	8
61							5	1	6		5	1	6
62							2		2		2		2
63	1		1								1		1
70								1	1			1	1
73					1	1						1	1
Total	3	5	8	227	129	356	50	16	66	1	280	151	431
Mean length in cm	59	44.8	50.1	46.3	40.97	44.4	54.52	50.19	53.5	27	47.91	41.98	45.83

Table 15. Length composition of roughhead grenadier from Russian trawl catches in NAFO 3LMN Divisions for the year 2024.

Length in cm	3L			3M			3N			3LMN		
	Females	Males	Total	Females	Males	Total	Females	Males	Total	Females	Males	Total
15							7		7	7		7
18							3		3	3		3
21							2		2	2		2
24				1		2				1		2
27	1	2	3							1	2	3
30	2	4	6					1	1	2	5	7
33	15	13	28					2	2	15	15	30
36	26	35	61	6	13	19	3	3	6	35	51	86
39	56	85	141	6	14	20	8	8	16	70	107	177
42	77	141	218	13	39	59	10	8	18	100	188	295
45	106	155	261	39	52	98	10	13	23	155	220	382
48	90	109	199	37	68	111	11	7	18	138	184	328
51	87	71	158	45	40	88	10	4	14	142	115	260
54	86	12	98	29	20	49	7	1	8	122	33	155
57	73	2	75	24	2	28	4	1	5	101	5	108
60	70		70	29	2	34	2		2	101	2	106
63	71	1	72	20	1	22				91	2	94
66	44	1	45	20		20	1		1	65	1	66
69	25	1	26	11	1	15				36	2	41
72	14		14	14	1	15				28	1	29
75	12		12	5		5				17		17
78	5		5	4		4				9		9
81	2		2	2		2				4		4
84	3		3	1		1				4		4
90	1		1							1		1
102				1		1				1		1
Total	866	632	1498	307	253	593	78	48	126	1251	933	2184
Mean length in cm	53.4	45.1	49.9	56.1	47.7	52.2	43.6	44.5	43.9	53.4	45.8	50.2

Table 16. Length composition of roundnose grenadier from Russian trawl catches in NAFO 3LMN Divisions for the year 2024.

Length in cm	3L			3M			3N	3LMN		
	Females	Males	Total	Females	Males	Total	Males	Females	Males	Total
12							1		1	1
30	1	2	3					1	2	3
33	1	3	4		2	2		1	5	6
36	5	11	16	1	3	4		6	14	20
39	11	8	19	3	5	8		14	13	27
42	14	17	31	10	20	30		24	37	61
45	9	17	26	18	21	39		27	38	65
48	19	8	27	21	31	52		40	39	79
51	7	15	22	15	17	32		22	32	54
54	8	10	18	15	18	33		23	28	51
57	4	8	12	16	12	28		20	20	40
60	5	6	11	17	11	28		22	17	39
63	3		3	13	7	20		16	7	23
66	4	3	7	12	4	16		16	7	23
69	1	1	2	10	2	12		11	3	14
72				5	1	6		5	1	6
75				1		1		1		1
78	1		1	1		1		2		2
81				1		1		1		1
87				1		1		1		1
Total	93	109	202	160	154	314	1	253	264	517
Mean length in cm	49.3	48.0	48.6	56.5	51.3	53.9	12.0	53.9	49.8	51.8

Table 17. Length composition of blue wolffish from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
34	2				2
40	5	1			6
43	2	5			7
46	6	3			9
49	11	10	2		23
52	10	2	0		12
55	6	2	0		8
58	10	6	0		16
61	6	3	1	2	12
64	7	4	4	2	17
67	3	3	3		9
70	4	4	2	1	11
73	8	1	2		11
76	2	4	1	1	8
79	11	3	1		15
82	5	2	1		8
85	4	2	1		7
88	4	1	2		7
91	7	2			9
94	3	2	1		6
97	3		4		7
100	1	2	1		4
103	1	2			3
106	1				1
109			1		1
112	3	2	1		6
115	2		1		3
118			1		1
127	1				1
Total	128	66	30	6	230
Mean length in cm	69.9	67.7	82.2	67.0	70.8

Table 16. Length composition of spotted wolffish from Russian trawl catches in NAFO 3LMN Divisions for the year 2024.

Length in cm	3L	3M	3N	3LMN
37			1	1
43		1		1
46	1			1
49		2	1	3
52		2	1	3
55		3		3
58	1	1	2	4
61		1	1	2
64		3	3	6
67		6	6	12
70		1	4	5
73		2	3	5
76		11	5	16
79		3	5	8
82		4	8	12
85		2	7	9
88			3	3
94		1	2	3
97		1	1	2
112		1		1
118			1	1
Total	2	45	54	101
Mean length in cm	53.0	72.4	76.9	74.5

Table 19. Length composition of Atlantic wolffish from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
31			2		2
34			4		4
37			4		4
40	3		1		4
43	1		5	1	7
46	2		5		7
49	1	1	5		7
52			7		7
55		1	7		8
58	1	1	14		16
61	1	1	12	2	16
64	3	3	11		17
67	1	2	7	2	12
70			6		6
73			3		3
76	1		1		2
79			1		1
82		1	3		4
103			1		1
Total	14	10	99	5	128
Mean length in cm	55.1	64.1	58.4	60.8	58.6

Table 20. Length composition of Atlantic halibut from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
51			1		1
55	1		2	2	5
57	1		2	1	4
59			7	2	9
61			9	2	11
63			9		9
65			13	2	15
67	1	1	8	7	17
69		1	12	2	15
71			7	2	9
73	2		13	4	19
75		1	11	5	17
77		1	15	4	20
79	1		12	3	16
81			14		14
83	2		17	2	21
85	1		10	3	14
87	2	1	12	1	16

89			7	1	8
91	1	1	13	1	16
93	1		7	3	11
95	2	1	6	1	10
97	2	1	12	2	17
99	1	1	6		8
101		1	11	1	13
103	4	1	8	1	14
105	1		10		11
107		2	7	2	11
109		3	7	3	13
111		1	5	1	7
113	1		2		3
115		2	4	1	7
117	3	1	6		10
119	1	1	3		5
121		1	4		5
123			2		2
125			4		4
127			1		1
131			1		1
133		1			1
135		1			1
137		1	2	1	4
139		1			1
141				1	1
143			2		2
145			1		1
149		1	1		2
153		1	1		2
161			1		1
165			1		1
181			1		1
183			1		1
189	1				1
205			1		1
207	1				1
209	1				1
Total	31	28	312	61	432
Mean length in cm	103.8	109.3	89.6	82.5	90.9

Table 21. Length composition of yellowtail flounder from Russian trawl catches in NAFO 3NO Divisions for the year 2024.

Length in cm	3N
21	17
23	58
25	129
27	305
29	389
31	296
33	354
35	256
37	128
39	75
41	33
43	11
45	1
Total	2052
Mean length in cm	31.6

Table 22. Length composition of American plaice from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
23			6		6
25			17	4	21
27			53	18	71
29	4		89	16	109
31	4		152	23	179
33	6		351	38	395
35	6		420	37	463
37	3		393	30	426
39	6		234	14	254
41	1	3	165	11	180
43	1	2	179	7	189
45	3	5	154	9	171
47	2	11	111	5	129
49	1	8	68	7	84
51	2	5	66	1	74
53	1	9	28		38
55	1	3	13	1	18
57	1	5	10		16
59		3	13		16
61		2	6		8
63			1		1
65			4		4
67			2		2
Total	42	56	2535	221	2854
Mean length in cm	39.1	50.9	38.7	35.8	38.8

Table 23. Length composition of blue antimora from Russian trawl catches in NAFO 3LM Divisions for the year 2024.

Length in cm	3L	3M	3N	3LMN
19		1		1
29		1		1
31	1	3	1	5
33	3			3
35	10	5		15
37	35	18		53
39	35	19		54
41	42	32		74
43	17	15	1	33
45	16	27		43
47	11	19		30
49	9	14		23
51	17	17		34
53	13	15		28
55	2	16		18
57	3	12		15
59	2	7		9
61		7		7
63		1		1
Total	216	229	2	447
Mean length in cm	43.2	46.8	37.5	45.0

Table 24. Length composition of black dogfish from Russian trawl catches in NAFO 3LMN Divisions for the year 2024.

Length in cm	3L	3M	3N	3LMN
52	2	2		4
55		4	2	6
58	3	3	2	8
61	5	13	5	23
64		8	3	11
67	5	10		15
70	3	4	2	9
73	4	9		13
76	2	3		5
79		1		1
Total	24	57	14	95
Mean length in cm	66.5	66.2	62.6	65.8

Table 25. Length composition of boreal shark from Russian trawl catches in NAFO 3LM Divisions for the year 2024.

Length in cm	3L	3M	3LM
49	1		1
55	1		1
58	1		1
61		1	1
64	2	2	4
67	2	3	5
70	2	3	5
73		4	4
76	3	2	5
79	4	3	7
82	1	2	3
85		1	1
Total	17	21	38
Mean length in cm	71	73.9	72.6

Table 26. Length composition of deepwater catshark from Russian trawl catches in NAFO 3M Divisions for the year 2024.

Length in cm	3L	3M	3LM
49	1		1
55	1		1
58	1		1
61		1	1
64	2	2	4
67	2	3	5
70	2	3	5
73		4	4
76	3	2	5
79	4	3	7
82	1	2	3
85		1	1
Total	17	21	38
Mean length in cm	71	73.9	72.6

Table 27. Length composition of longnose velvet dogfish from Russian trawl catches in NAFO 3M Divisions for the year 2024.

Length in cm	3M
61	2
64	1
67	4
70	2
73	3
76	6
79	1
82	1
Total	20
Mean length in cm	72.5

Table 28. Length composition of white-spotted dogfish from Russian trawl catches in NAFO 3NO Divisions for the year 2024.

Length in cm	3N	3O	3NO
64	1		1
67	1		1
70	2	3	5
73	3	1	4
76	1		1
79		2	2
82		1	1
85	1	1	2
Total	9	8	17
Mean length in cm	73.3	77.0	75.1

Table 29. Length composition of porbeagle shark from Russian trawl catches in NAFO 3NO Divisions for the year 2024.

Length in cm	3N			3O			3NO		
	Females	**Males**	**Total**	**Females**	**Males**	**Total**	**Females**	**Males**	**Total**
15	1		1				1		1
175					1	1		1	1
205				1		1	1		1
208		1	1					1	1
220				1		1	1		1
229	2		2				2		2
235	1	1	2	1		1	2	1	3
238	3		3				3		3
Total	7	2	9	3	1	4	10	3	13
Mean length in cm	204.3	222.5	208.3	221.0	176.0	209.8	209.3	207.0	208.8

Table 30. Length composition of white hake from Russian trawl catches in NAFO 3NO Divisions for the year 2024.

Length in cm	3N	3O	3NO
23		1	1
29		2	2
31		7	7
33		13	13
35		15	15
37	1	20	21
39	1	17	18
41	2	11	13
43	8	13	21
45	3	11	14
47	6	14	20
49	1	23	24
51	5	31	36
53	6	29	35
55	5	20	25
57	6	20	26
59	4	13	17
61	4	14	18
63	4	11	15
65	2	4	6
67	3	4	7
69	2	7	9
71		8	8
73	1	2	3
75	5	2	7
77	3	2	5
81		1	1
Total	72	315	387
Mean length in cm	56.6	50.4	51.6

Table 31. Length composition of red hake from Russian trawl catches in NAFO 3LMO Divisions for the year 2024.

Length in cm	3L	3M	3O	3LMO
27	1		1	2
29	2	1		3
31	13	9		22
33	30	7		37
35	38	20		58
37	36	27	2	65
39	73	25	4	102
41	51	29	2	82
43	58	40	4	102
45	45	17	2	64
47	13	7		20
49	4		2	6
51	1	1		2
Total	365	183	17	565
Mean length in cm	40.1	40.2	41.6	40.2

Table 32. Length composition of longfin hake from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
31		2	2		4
33	1	8	4		13
35	2	12	6	2	22
37	3	15	4	3	25
39	2	2	2	3	9
41			4	5	9
43				2	2
45				5	5
47				6	6
49				2	2
51				2	2
53				4	4
57			1	2	3
61			1		1
67			2		2
Total	8	39	26	36	109
Mean length in cm	37.0	35.9	40.7	45.6	40.3

Table 33. Length composition of three-bearded rockling from Russian trawl catches in NAFO 3LM Divisions for the year 2024.

Length in cm	3L	3M	3LM
15		1	1
25		1	1
27	1		1
33		2	2
35	2		2
37		1	1
39	2	1	3
41	2		2
43	1		1
45	1		1
Total	9	6	15
Mean length in cm	38.8	30.8	35.6

Table 34. Length composition of greater eelpout from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
35			3		3
37		2			2
39		1	6		7
41	1	1	7		9
43			11		11
45	1		4		5
47	3	1	6		10
49		1	2		3
51	3		3		6
53		1	1		2
55	1				1
57	2	2			4
59	2	1	1		4
61	2				2
63	1		1		2
65				1	1
Total	16	10	45	1	72
Mean length in cm	53.8	48.1	44.7	65.5	47.4

Table 35. Length composition of Arctic eelpout from Russian trawl catches in NAFO 3LN Divisions for the year 2024.

Length in cm	3L	3N	3LN
25		2	2
27		2	2
29		1	1
35		1	1
37		4	4
39		2	2
41		3	3
43	1	2	3
45		1	1
47		1	1
Total	1	19	20
Mean length in cm	43.5	37.1	37.4

Table 36. Length composition of glacial eelpout from Russian trawl catches in NAFO 3LM Divisions for the year 2024.

Length in cm	3L	3M	3LM
33	1		1
35		1	1
37	1	4	5
41	1	2	3
43		1	1
45	2	1	3
47	2		2
49	1	1	2
51	2		2
Total	10	10	20
Mean length in cm	45.1	40.7	42.9

Table 37. Length composition of nezumia from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
23		1			1
25		2			2
26	7	4			11
27	12	13		1	26
28	24	19	2		45
29	21	29			50
30	23	37	1		61
31	37	57			94
32	39	57	1		97
33	41	80	4		125
34	29	58	3		90
35	28	64	5		97
36	15	37	1		53
37	8	30	2		40
38	2	19			21
39	2	10	1		13
40	2	4			6
41	1				1
Total	291	521	20	1	833
Mean length in cm	32.0	33.0	33.8	27.0	32.6

Table 38. Length composition of snub-nosed spiny eel from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
53		1			1
59			1		1
61		1			1
62		1			1
64		1			1
65		1			1
68		1			1
70		1			1
74		1			1
79	1	1			2
80	1			1	2
81	1				1
82	1	1			2
83		1			1
85		3			3
86	2	1			3
87	1				1
88		1			1
89		1			1
90		2			2
91		1			1
95		1			1
101		2			2
Total	7	23	1	1	32
Mean length in cm	83.0	80.3	59.0	80.0	80.2

Table 39. Length composition of starry skate from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
31			2		2
34	1		4		5
37		1	2		3
40		6	2		8
43	2	7	3		12
46		15	4		19
49	2	12	12		26
52	2	12	10	1	25
55	1	31	6		38
58	2	13	12		27
61	4	8	6		18
64	6	3	14		23
67	8	4	17	2	31
70	8	1	16	10	35
73	7	2	22	7	38
76	6		12	3	21
79	2		10	3	15
82	1		6	3	10
85	1		1	1	3
Total	**53**	**115**	**161**	**30**	**359**
Mean length in cm	**67.2**	**54.1**	**64.4**	**74.1**	**62.3**

Table 40. Length composition of spinytail skate from Russian trawl catches in NAFO 3LMN Divisions for the year 2024.

Length in cm	3L	3M	3N	3LMN
46		1		1
52		2		2
55			1	1
61	1	1		2
64		2		2
67		1		1
70	1			1
73		3	1	4
76	1	1		2
79	1			1
82		1		1
85		1		1
91		3		3
94			1	1
97			1	1
112			1	1
115	1		1	2
121			1	1
136	1			1
139			1	1
Total	6	16	8	30
Mean length in cm	90.5	72.3	101.8	83.8

Table 41. Length composition of Atlantic cod from Russian trawl catches in NAFO 3LMNO Divisions for the year 2024.

Length in cm	3L	3M	3N	3O	3LMNO
26			1		1
28			1		1
30		1	4		5
32			9		9
34		1	6	1	8
36		4	12	2	18
38	2	13	29	3	47
40	2	19	52	5	78
42	5	25	80	6	116
44	3	38	171	12	224
46	4	48	163	13	228
48	7	73	208	19	307
50	6	76	193	17	292
52	4	67	201	12	284
54	5	66	140	17	228
56	5	93	145	6	249
58	3	144	136	8	291
60		157	77	3	237
62	1	142	118	7	268
64	1	155	89	2	247
66	3	114	78	3	198
68	2	123	69	3	197
70	3	99	63	3	168
72	3	78	53	4	138
74		81	51	6	138
76	4	78	41	5	128
78	4	79	51	5	139
80	2	63	36	3	104
82		42	35	2	79
84	2	33	23	5	63
86	2	36	30	2	70
88	1	33	21	5	60
90		20	16	1	37
92	1	24	13	3	41
94		23	8	3	34
96		18	7	2	27
98		13	12	2	27
100		21	7	2	30
102		13	3	1	17
104		14	2		16
106		6	1		7
108		9	3	1	13
110		5	3	1	9
112	1	6	2	1	10
114		1	2		3
116		2	2		4
118		1	1		2
120		3		1	4

122		2			2
124		1			1
130		1			1
132		1			1
140		1			1
Total	76	2166	2468	197	4907
Mean length in cm	59.29	66.31	57.44	60.32	61.50

Table 42. Length composition of silver hake from Russian trawl catches in NAFO 3NO Divisions for the year 2024.

Length in cm	3N	3O	3NO
22		1	1
23		2	2
24	4	9	13
25	11	63	74
26	32	281	313
27	83	605	688
28	147	753	900
29	159	881	1040
30	149	653	802
31	118	483	601
32	69	381	450
33	45	266	311
34	41	257	298
35	23	69	92
36	21	50	71
37	7	29	36
38		10	10
39	2	10	12
40	1	3	4
41		1	1
42		3	3
43		5	5
44	2	3	5
45	1		1
47		1	1
49		1	1
50	1	1	2
51		2	2
55		1	1
Total	916	4824	5740
Mean length in cm	30.0	29.7	29.8

Table 43. Presence of VME indicator species in the NAFO Regulatory Area for the year 2024.

Trawl coordinates				Trawl depth in metres	Species name	Quantity in specimens	Length in cm	Weight in kilograms
Start		Finish						
N	W	N	W					
43.12	-50.99	42.93	-50.59	137-152	*Asbestopluma sp.*	10	10-12	0.05
43.97	-49.11	43.86	-49.09	218-221	*Thenea spp.*	5	5	0.1
					Asconema foliata	5	7	0.05
46.33	-47.38	46.34	-47.37	315-322	*Gersemia rubiformis*	1	5	0.02
45.67	-48.08	45.787	-47.87	740-780	*Anthoptilum sp.*	100	25-31	1.0
45.67	-48.09	45.83	-47.78	732-830	*Anthoptilum sp.*	50	29-31	0.5
46.87	-44.45	47.25	-44.49	168-184	*Lophelia pertusa*	2	2	0.01
					Quasillina brevis	2	4	0.01
					Cladorhiza sp.	10	10	0.1
43.32	-49.33	43.52	-49.40	348-263	*Polymastia spp.*	2	4	0.07
					Duva florida	4	4-12	0.17
43.94	-49.09	43.92	-49.08	350-278	*Duva florida*	2	4-5	0.056
					Polymastia spp.	1	5	0.038
43.78	-49.04	43.98	-49.11	343-235	*Phakellia spp.*	2	5-8	0.055
46.25	-46.79	46.81	-46.78	1228-1180	*Halipteris finmarchica*	7	15-31	0.080
46.80	-46.78	46.22	-46.82	1183-1235	*Anthoptilum grandiflorum*	3	31-35	0.096
					Halipteris finmarchica	11	16-25	0.078
					Pennatula	3	8	0.036
46.25	-46.80	46.80	-46.77	1232-1175	*Anthoptilum grandiflorum*	4	22-34	0.088
					Halipteris finmarchica	8	10-23	0.034
43.78	-49.01	43.92	-49.00	522-450	*Duva florida*	2	3-5	0.036
43.94	-49.05	43.77	-49.03	362-425	*Polymastia spp.*	2	4	0.055
43.81	-49.01	43.94	-49.01	410-368	*Duva florida*	3	4-7	0.068
					Vazella pourtalesi	1	4	0.024
43.08	-51.03	43.33	-51.63	327-438	*Pennatula*	2	15	0.072
43.81	-49.00	43.95	-49.10	412-340	*Duva florida*	2	3-4	0.034
46.30	-46.76	46.52	-46.74	1233-1142	*Halipteris finmarchica*	2	28-36	0.031
					Anthoptilum grandiflorum	11	9-32	0.068
					Distichoptilum gracile	2	42-44	0.022
43.46	-49.01	43.30	-49.33	241-425	*Polymastia spp.*	2	4	0.062
					Phakellia spp.	1	10	0.032
43.32	-49.33	43.30	-49.33	347-425	*Polymastia spp.*	1	5	0.044
					Phakellia spp.	1	12	0.046
43.91	-49.02	43.85	-49.00	365-423	*Duva florida*	2	4-6	0.074
43.81	-49.00	43.95	-49.08	414-360	*Polymastia spp.*	1	5	0.042
					Phakellia spp.	1	4	0.015
43.95	-49.07	43.86	-48.99	512-340	*Polymastia spp.*	1	4	0.038
					Duva florida	2	6-7	0.072
43.19	-51.37	43.43	-51.77	430-350	*Pennatula*	2	10	0.061
43.06	-51.02	43.06	-51.02	320-400	*Pennatula*	3	9-11	0.078
43.95	-49.08	43.95	-49.09	405-375	*Duva florida*	2	10	0.082
43.68	-49.06	43.72	-49.10	450-435	*Polymastia spp.*	2	4	0.07
43.81	-49.01	4.81	-49.02	404-372	*Phakellia spp.*	2	5	0.042
					Duva florida	1	3	0.025
43.81	-49.01	43.95	-43.07	405-475	*Phakellia spp.*	1	5	0.029

Trawl coordinates				Trawl depth in metres	Species name	Quantity in specimens	Length in cm	Weight in kilograms
Start		Finish						
N	W	N	W					
					Polymastia spp.	2	4-5	0.073
					Duva florida	1	7	0.042
46.30	-46.74	46.22	-46.81	1229-1178	*Anthoptilum grandiflorum*	22	6-35	0.137
					Halipteris finmarchica	1	68	0.071
46.25	-46.80	46.80	-46.68	995-1170	*Anthoptilum grandiflorum*	9	8-19	0.064
46.49	-46.61	46.79	-46.72	1017-998	*Anthoptilum grandiflorum*	11	9-38	0.078
					Halipteris finmarchica	1	62	0.06
47.99	-45.84	47.98	-45.88	736-787	*Anthoptilum grandiflorum*	3	13-28	0.052
48.64	-45.69	48.33	-46.39	1112-972	*Anthoptilum grandiflorum*	4	19-31	0.065
46.47	-45.71	46.45	-45.57	407-454	*Halipteris finmarchica*	4	21-32	0.071
43.92	-49.02	43.95	-49.07	380-475	*Polymastia spp.*	2	5	0.078
43.32	-49.33	43.45	-49.32	335-267	*Duva florida*	5	5-11	0.192
43.43	-49.34	43.33	-49.34	298-300	*Geodia*	1	12	0.172
46.46	-45.57	46.65	-45.81	299-410	*Duva florida*	3	5-8	0.077
46.41	-49.34	43.31	-49.34	260-417	*Polymastia spp.*	1	5	0.038
					Phakellia spp.	3	4-6	0.043
					Duva florida	3	8-11	0.088
48.84	-45.12	48.65	-45.58	1250-1130	*Acanella arbuscula*	1	15	0.010
					Anthoptilum spp.	4-7	5-10	0.015
48.31	-46.51	48.20	-46.90	975-1010	*Funiculina quadrangularis*	2	3-5	0.010
48.17	-47.05	48.31	-46.53	1060-1070	*Abyssocladia spp.*	1	6-7	0.020
					Flustra spp.	3	5-10	0.010
					Anthoptilum spp.	5-9	5-10	0.025
48.54	-45.95	48.34	-46.41	960-1075	*Duva florida*	2	5-7	0.013
					Flustra spp.	2	7-12	0.010
48.54	-45.95	48.34	-46.41	960-1075	*Funiculina quadrangularis*	3	3-5	0.010
					Flustra spp.	3	7-12	0.013
					Geodia spp.	2	6-12	0.120
					Keratoisis omata	1	12	0.017
48.13	-47.67	48.11	-47.13	760-880	*Anthoptilum spp.*	3	5-10	0.017
					Vasella pourtalesi	2	4-5	0.070
43.95	-49.08	43.97	-49.20	235-250	*Polymastia spp.*	2	4-5	0.030
					Duva florida.	1	9	0.018
42.88	-50.00	42.83	-50.05	215-220	*Geodia spp.*	3	5	0.060
					Polymastia spp.	3	3-4	0.045
42.88	-50.12	42.90	-50.30	200-210	*Duva florida*	1	7	0.020
43.37	-49.03	44.40	-50.25	190-220	*Polymastia spp.*	1	13	0.030
					Geodia spp.	4	3-4	0.060
					Duva florida	1	6	0.015

Trawl coordinates				Trawl depth in metres	Species name	Quantity in specimens	Length in cm	Weight in kilograms
Start		Finish						
N	W	N	W					
42.80	-50.02	42.88	-50.65	190-200	*Geodia spp.*	1	2	0.010
42.52	-50.00	43.93	-49.75	220-230	*Thenea spp.*	2	10	0.020
					Duva florida	2	15	0.030
45.58	-48.65	45.68	-48.83	350-360	*Duva florida*	2	11	0.020
					Geodia spp.	3	5	0.040
44.30	-49.30	44.83	-49.65	290-300	*Duva florida*	1	6	0.018
					Aglaophenopsis cornuta	1	12	0.010
					Geodia spp.	2	5	0.040
43.25	-49.22	43.13	-49.78	316-320	*Duva florida*	7	3-7	0.070
					Thenea spp.	3	5-15	0.070

Table 44. Occurrence of marine mammals in the NAFO Regulatory Area for the year 2024.

Date	Latitude (N)	Longitude (W)	Species name	Quantity	Notes
2.02	46.37	46.45	Sperm whale (Physeter macrocephalus)	1	Followed the vessel during trawling operations.
3.02	46.13	46.49	Sperm whale (Physeter macrocephalus)	1	Followed the vessel astern during trawl hauling.
4.02	46.37	46.45	Sperm whale (Physeter macrocephalus)	2	Followed the vessel during trawling operations.
4.02	46.46	46.48	Sperm whale (Physeter macrocephalus)	1	During the trawl hauling process, followed the trawl.
17.02	46.37	46.44	Sperm whale (Physeter macrocephalus)	1	Followed a parallel direction during the trawling operations.
13.03	46.3	46.35	Sperm whale (Physeter macrocephalus)	1	Upon completion of the trawl hauling, approached the vessel.
14.03	46.43	46.4	Sperm whale (Physeter macrocephalus)	1	During the trawling operations, followed a parallel direction.
18.03	48.33	45.53	Sperm whale (Physeter macrocephalus)	1	Followed the vessel during trawling operations.
19.03	48.28	46.02	Sperm whale (Physeter macrocephalus)	1	Followed the vessel during trawling operations.
19.03	48.21	46.13	Sperm whale (Physeter macrocephalus)	3	Followed the vessel during trawling operations.
20.03	48.25	46.08	Sperm whale (Physeter macrocephalus)	1	Approached the vessel during the trawl hauling.
20.03	48.26	46.06	Sperm whale (Physeter macrocephalus)	1	Approached the vessel during the trawl hauling.
20.03	48.15	46.28	Sperm whale (Physeter macrocephalus)	1	Followed the vessel during the trawl shooting.
21.03	48.2	46	Sperm whale (Physeter macrocephalus)	1	Approached the vessel during the trawl hauling.
21.03	48.26	46.05	Sperm whale (Physeter macrocephalus)	1	Approached the vessel during the trawl hauling.
7.04	48.09	47.04	Sperm whale (Physeter macrocephalus)	7	Were near the vessel during the trawl hauling.
27.04	48.08	47.06	Sperm whale (Physeter macrocephalus)	8	Were near the vessel during the trawl hauling.

Date	Latitude (N)	Longitude (W)	Species name	Quantity	Notes
21.04	48.09	47.04	Harp seal (Phoca groenlandica)	2	Were near the vessel during the trawl hauling.
21.04	48.08	47.06	Harp seal (Phoca groenlandica)	4	Were near the vessel during the trawl hauling.
23.05	43.06	51	Fin whale (Balaenoptera physalus)	1	The distance measured approximately one kilometre.
29.05	48.4	45.29	Sperm whale (Physeter macrocephalus)	1	When hauling, the specimen was moving in the vessel's wake.
6.05	44.4	49.05	Sperm whale (Physeter macrocephalus)	2	-
10.05	43.21	49.34	Dolphin of unspecified species	10	-
18.05	42.52	50.03	Dolphin of unspecified species	20	-
23.05	42.53	50	Humpback whale (Megaptera novaengliae)	3	Engaged in feeding behaviours and diving activities.
29.05	42.53	49.53	Humpback whale (Megaptera novaengliae)	10	Engaged in feeding behaviours and diving activities.
30.06	47.51	44.55	Atlantic white-sided dolphin (Lagenorhynchus acutus)	3	A dolphin pod was observed on a counter course, at a distance of 250 meters.
12.07	43.52	49.01	Common dolphin (Delphinus delphis)	10	Traversed the path of the vessel.
13.07	44.52	49.03	Long-finned pilot whale (Globicephala melas)	50	Were moving northward.
20.07	43.55	49.01	Sperm whale (Physeter macrocephalus)	1	Followed the codend.
29.07	43.58	49.04	Sperm whale (Physeter macrocephalus)	2	Engaged in feeding behaviours and diving activities.
8.08	45.38	48.14	Sperm whale (Physeter macrocephalus)	1	Followed the codend.
25.09	47.57	45.53	Sperm whale (Physeter macrocephalus)	1	Was near the vessel during the trawl hauling.
27.09	47.55	45.55	Sperm whale (Physeter macrocephalus)	1	Was near the vessel during the trawl hauling.
28.09	47.57	45.56	Sperm whale (Physeter macrocephalus)	2	Were near the vessel during the trawl hauling.
29.09	47.58	45.56	Sperm whale (Physeter macrocephalus)	1	Was near the vessel during the trawl hauling.
30.09	48.14	46.3	Sperm whale (Physeter macrocephalus)	2	Were near the vessel during the trawl hauling.
2.09	44.21	49.03	Common dolphin (Delphinus delphis)	7	Were on the vessel passage.
16.10	47.55	45.55	Sperm whale (Physeter macrocephalus)	1	Was near the vessel during the trawl hauling.
17.10	47.58	45.53	Sperm whale (Physeter macrocephalus)	1	Was near the vessel during the trawl hauling.
5.10	43.51	49.02	Common dolphin (Delphinus delphis)	7	Were on the vessel passage.
13.10	45.39	48.05	Common dolphin (Delphinus delphis)	12	Were on the vessel passage.

Table 45. The total count of specimens and the frequency of marine mammal encounters in the NAFO Regulatory Area for the year 2024.

Species	Quantity	Number of encounters*	% ratio of total quantity
Humpback whale	13	2	6,9
Fin whale	1	1	0,5
Sperm whale	49	29	26,1
Atlantic white-sided dolphin	3	1	1,6
Common dolphin	36	4	19,1
Pilot whale	50	1	26,6
Dolphin of unspecified species	30	2	16,0
Harp seal	6	2	3,2
Total	188	42	100

*Only those encounters are recorded that have precise coordinates.