AMENDMENT

ENVIRONMENTAL IMPACT ASSESSMENT
FOR
MARINE 2-D SEISMIC REFLECTION SURVEY
LABRADOR SEA AND DAVIS STRAIT
OFFSHORE LABRADOR

MULTI KLIENT INVEST AS

Prepared for:
Canada-Newfoundland & Labrador Offshore Petroleum Board

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PREFACE

This report is an amendment to the environmental assessment (EA) report originally prepared by RPS for Multi Klient Invest AS (MKI) to conduct a regional marine 2-D (two-dimensional) seismic reflection survey offshore in the Labrador Sea in response to a schedule change. The Project schedule for the original EA covered the months of July to November. Since the submission of the EA report, the temporal boundaries were modified to include June to November. Therefore, this amendment addresses the effects of the Project from June to November.

EXECUTIVE SUMMARY

The first paragraph of the Executive Summary should be replaced with the following:

MKI proposes to undertake 2-D seismic surveys on the Labrador Shelf occurring over a 40 to 60 day period, intermittently, within a window anytime in June to November in 2011 to 2013.

1. INTRODUCTION

There are no changes for Section 1.0

2. PROJECT DESCRIPTION

2.1 PROJECT OVERVIEW, LOCATION, AND SCHEDULE

The third paragraph of this section should be replaced with the following:

"The proposed survey season is June through November 2011 and in subsequent years. Each program will be about 40 to 60 days in duration. The exact dates will depend on the location, weather conditions, and vessel availability. Based on previous work in Labrador, weather usually allows productive recording until approximately mid-October. It is expected that work might be able to continue as late in the year as November."

3. SCOPE OF ASSESSMENT

There are no changes for Section 3.0.

4. ENVIRONMENTAL ASSESSMENT METHODOLOGY

There are no changes for Section 4.0.

5. ENVIRONMENTAL SETTINGS

Section 5.0 has been updated to include temporal boundaries from June to November. Sections where updates are required are shown below.

5.1 PHYSICAL AND MARINE SETTING

5.1.1 Meteorology and Climate

Winters are very cold, with typical daytime temperatures for January between -10 and -15°C, colder than Newfoundland and more likely the frigidity of the southern Prairies. An occasional incursion of Atlantic air will warm up the winter. The summer season is brief and cool along the coast because of the cold Labrador Current. Summertime average temperatures vary around 8 to 10°C along the coast but are 3 to 5°C warmer in the interior. The pleasantness of the summer day along the coast is often determined by the wind direction – westerly winds bring clear, mild continental air, whereas easterlies, blowing off the Labrador Current, bring cold, cloudy, and moist weather.

5.1.3 Ice Conditions

The first paragraph of this section should be replaced with the following:

"The mean annual number of weeks of pack ice found in the SEA Area is shown in Figure 5.5. Figure 5.6 and Figure 5.7 show the mean monthly concentrations when ice is present in June and July, respectively. There is no other pack ice from August to November. It should be noted that for clarity, only the 200, 1000 and 3000 m bathymetry lines are shown in these figures."

Figure 5.6 has been added to this section to include ice pack conditions in June.

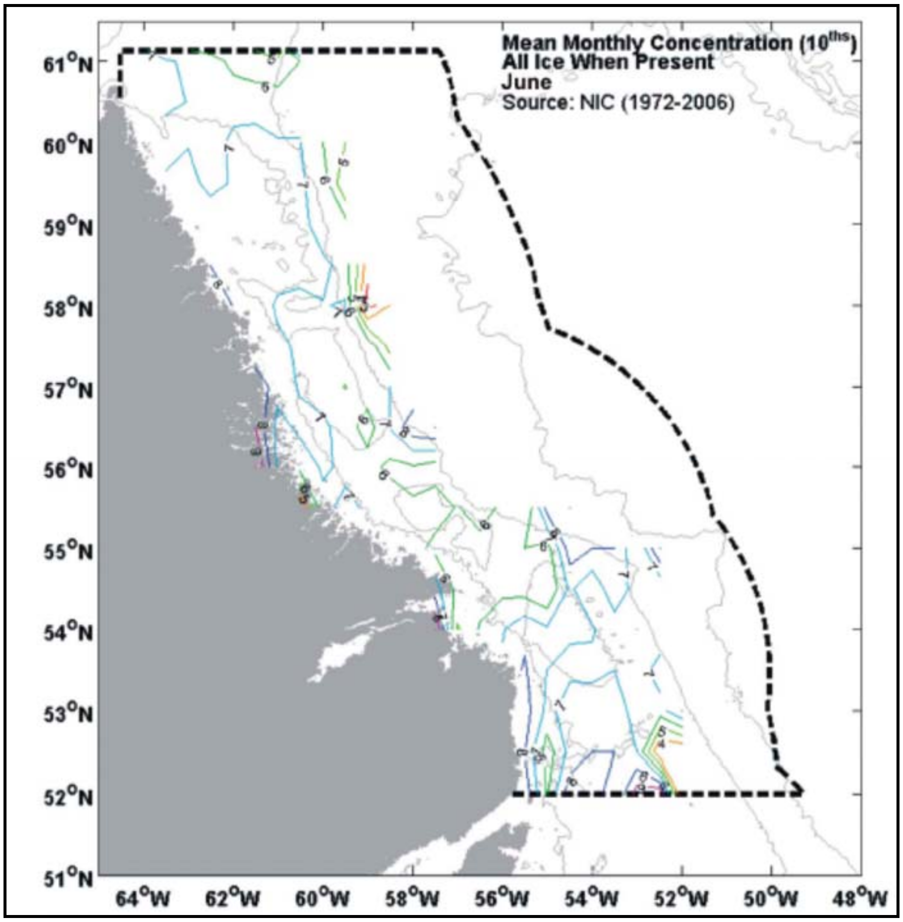


Figure 5.6 Mean monthly Pack Ice Conditions in June

The current Figure 5.6 should be renumbered as Figure 5.7.

5.1.5 Bathymetry

The second sentence in paragraph one should be replaced with the following:

"A coarse scale bathymetry map is provided as Figure 5.8."

The current Figure 5.7 should be renumbered as Figure 5.8.

5.2 NOISE ENVIRONMENT

The first sentence in the paragraph below Table 5.3 should be replaced with, "Wenz (1962) published a thorough study of noise in the ocean, and a composite of his conclusions are given in Figure 5.9."

The current Figure 5.8 should be renumbered as Figure 5.9.

The sentence above Figure 5.9 should be replaced with, "Figure 5.10 shows noise frequencies levels generated from ships, aircraft, and sonar relative to hearing sensitivities of marine life."

The current Figure 5.9 should be renumbered as Figure 5.10.

5.3 BIOLOGICAL ENVIRONMENT

5.3.3 Corals and Sponges

Second paragraph, third sentence should be replaced with the following:

“A hotspot of coral species richness (Figure 5.11) has been identified on an area of Labrador slope between Makkovik Bank and Belle Isle Bank within which 14 species were found (Wareham and Edinger 2007).”

The current Figure 5.10 should be renumbered as Figure 5.11.

5.3.5.1 Seabirds

First paragraph, third sentence should be replaced with “Seabird observation locations are presented in Figure 5.12.”

The current Figure 5.11 should be renumbered 5.12.

Paragraph ten, first sentence should be replaced with, “Terns and gulls nest in small colonies along the coast in the Labrador Shelf (Figure 5.13).”

The current Figure 5.12 should be renumbered 5.13.

5.3.6.1 Cetaceans

First paragraph, fourth sentence should be replaced with, “Figure 5.14 shows the sighting records of cetaceans in the Study Area.” The current Figure 5.13 should be renumbered Figure 5.14.

Blue Whale (Balaenoptera musculus)
First paragraph, fifth sentence should be replaced with, “Blue whale observations (1975-2004) near the Labrador Shelf are illustrated in Figure 5.15.” The current Figure 5.14 should be renumbered Figure 5.15.

Beluga Whale (Delphinapterus leucas)
Second sentence should be replaced with, “Prior to the 1950s, belugas were common along the northern Labrador coast in summer and along the Labrador coast as far south as Nain (Sergeant and Brodie 1969) (Figure 5.16).” The current Figure 5.15 should be renumbered Figure 5.16.

Harbour Porpoise (Phocoena phocoena)
Last sentence should be replaced with, “Their general distribution and range is presented in Figure 5.17.”

An additional figure has been added to include the General Distribution and Range of Harbour Porpoises (Figure 5.17).

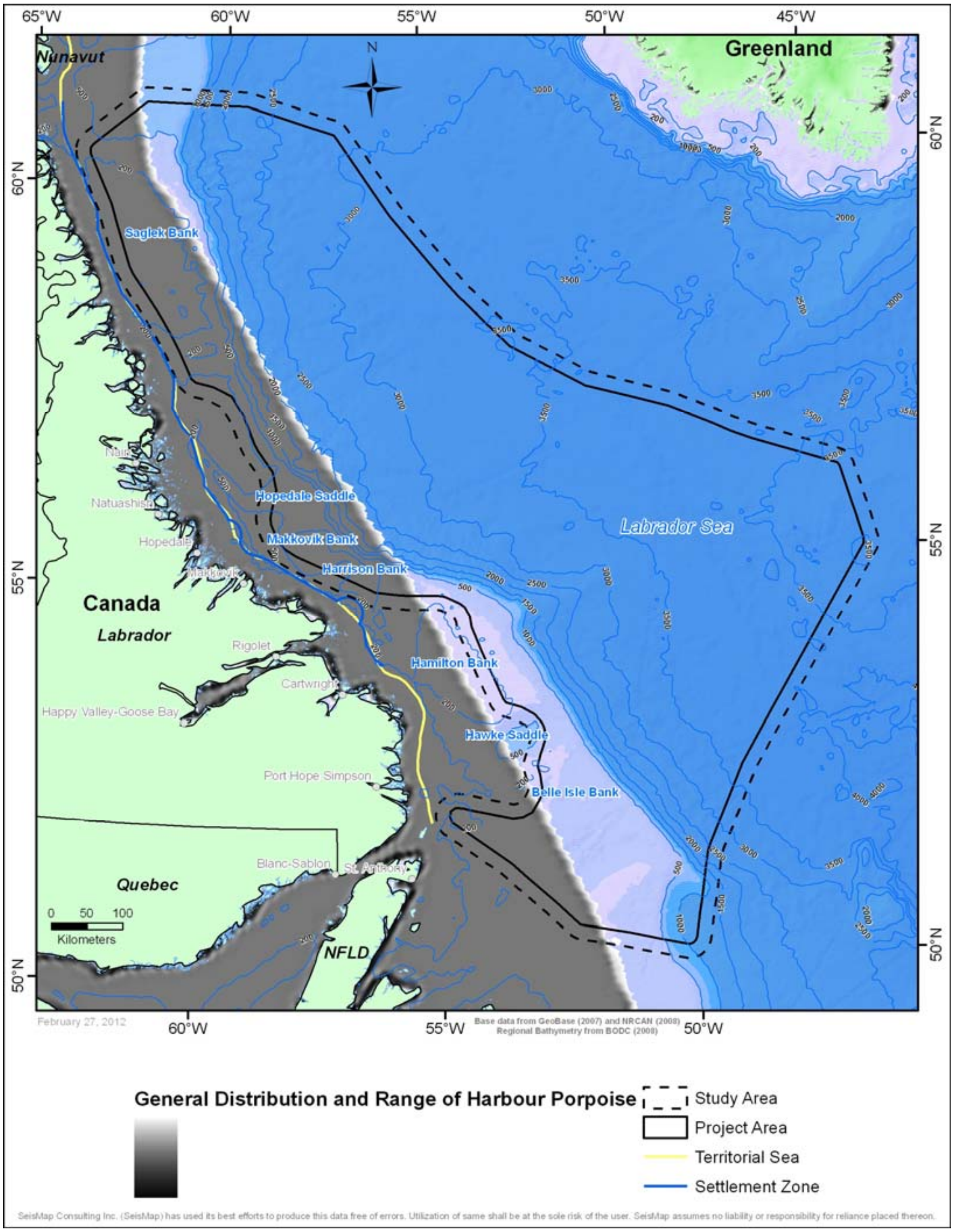


Figure 5.17: General Distribution and Range of Harbour Porpoise.

5.4 SPECIES AT RISK

5.4.1.2 Fish

The first sentence of the second paragraph should be replaced with, “The Northern Wolffish (Figure 5.18) and Spotted Wolffish are primarily distributed on Newfoundland’s Grand Banks and areas to the north, while A. lupus has a wider distribution in the Gulf of St. Lawrence, Scotian Shelf, Bay of Fundy, and Georges Bank, where the other two species are rare.”

The current Figure 5.16 should be renumbered Figure 5.18.

5.4.1.3 Birds

First paragraph, last sentence should be replaced with, “The species has been sighted at several nearshore and offshore locations within the Study Area, and is known to have breeding and moulting sites in the area as well, specifically at the Gannet Islands (Figure 5.19) (Environment Canada 2007a).”

The current Figure 5.17 should be renumbered Figure 5.19.

Ivory Gull
Second paragraph, first sentence should be replaced with, “The wintering grounds of the Ivory Gull are poorly known, but are thought to be along the southern edge of the pack ice in the North Atlantic and North Pacific oceans (Figure 5.20).”

The current Figure 5.18 should be renumbered Figure 5.20.

Eskimo Curlew
Last sentence should be replaced with, “Figure 5.21 provides an overview of survey observations for bird SAR from 1966 to 2007.”

The current Figure 5.19 should be renumbered Figure 5.21.

5.5 SENSITIVE AREAS

First sentence should be replaced with, “A number of areas and places located within and near the Study Area have been identified as sensitive areas (Figure 5.22).”

The current Figure 5.20 should be renumbered Figure 5.22.

5.5.1.1 Nain Bight and Hamilton Inlet

Second paragraph, second sentence should be replaced with, “Both of these areas are shown in Figure 5.22.”

5.5.2.1 The Torngat Mountains National Park

First paragraph, third sentence should be replaced with, “The park encompasses 9700 km^2 of the Northern Labrador Mountains natural region, extending from Saglek Fjord in the south, including all islands and islets, to the very northern tip of Labrador (Figure 5.22)."

Second paragraph, last sentence should be replaced with, "No exploration or production activities are allowed within the park boundaries (which includes Saglek Bay to Killinek Island near Cape Chidley in the marine environment) (Figure 5.22)."

5.6 ECOLOGICAL RESERVES

5.6.1 Gannet Islands Ecological Reserve

First paragraph, last sentence should be replaced with, "The reserve is located approximately west (inshore) of the Study Area and is represented in Figure 5.22."

5.6.2 Important Bird Areas (IBAs)

Last sentence should be replaced with, "Locations in Labrador are shown in Figure 5.22)."

5.7 MARINE PROTECTED AREAS (MPAS)

5.7.1 Gilbert Bay Marine Protected Area

First paragraph, first sentence should be replaced with, "Currently, there is one MPA found near the Study Area. Gilbert Bay Marine Protected Area, which has been protected under the Oceans Act since 2005, is 47 km^2 in size and located approximately 300 km from Happy Valley-Goose Bay on Labrador's southeast coast (Figure 5.22)."

5.9 HIGHLY PRODUCTIVE AREAS

5.9.1 Hawke Channel and Hamilton Bank

First paragraph, first sentence should be replaced with, "Hawke Channel-Hamilton Bank (Figure 5.22) is one of the most productive offshore areas in the northwest Atlantic, and the most productive bank in the Labrador Shelf area due to high levels of regional upswelling."

5.11 COMMERCIAL FISHERIES

5.11.1.1 2005 to 2009, June to November Study Area Catch Data Analysis

The section heading for Section 5.11.1.1 should be replaced with the heading above and the first paragraph replaced with the following:

"Table 5.9 shows the average annual Canadian-landed harvest by species, 2005 to 2009, from within the Study Area from June to November, based on the georeferenced DFO datasets. As the data show, the domestic harvest in the Study Area has been singly dominated by shrimp throughout this period, in terms of quantity."

Table 5.9 has been updated to include the Study Area harvest by species from June to November, 2005-2009.

Table 5.9 Study Area Harvest by Species, June to November, 2005-2009.

2005			
Commercial Species	Landed Weight (t) All NAFO Areas	Landed Weight (t) Study Area	% Landed Weight in Study Area
Pandalus Borealis Shrimp	69121	42338	61
Mackerel	24050	0	0
Capelin	12194	0	0
Queen-Snow Crab	6174	1956	32
Greenland Halibut (Turbot)	5020	3427	68
Pand. Montagui Shrimp	1475	786	53
Herring	784	0	0
Icelandic Scallops	672	0	0
Spider-Toad Crab	648	0	0
Cod	494	0	0
Whelks	382	0	0
Lumpfish Roe	219	0	0
Lobster	135	0	0
Redfish	131	87	66
Roughhead Grenadier	97	60	62
Illex Squid	90	0	0
Sea Urchins	78	0	0
Rock Crab	77	0	0
Winter Flounder	37	0	0
Skate	28	16	56
Eel	12	0	0
Greysole-Witch Flounder	9	4	42
Lumpfish	6	0	0
Arctic Charr	5	0	0
Rock Cod	3	0	0
White Hake	2	2	100
American Plaice	1	0	0
Haddock	1	1	100
Atlantic Halibut	1	0	49
Yellowtail Flounder	1	0	0
Sculpin	0	0	0
Sturgeon	0	0	0
Total	121947	48678	

2006			
Commercial Species	Landed Weight (t) All NAFO Areas	Landed Weight (t) Study Area	% Landed Weight in Study Area
Pandalus Borealis Shrimp	69959	42593	61
Mackerel	19163	123	1
Capelin	14366	0	0
Greenland Halibut (Turbot)	2672	1215	45
Illex Squid	2426	0	0
Queen-Snow Crab	2106	308	15
Pand. Montagui Shrimp	1959	1640	84
Cod	941	3	0
Icelandic Scallops	664	0	0
Spider-Toad Crab	402	0	0
Redfish	254	147	58
Whelks	218	0	0
Herring	209	0	0
Lumpfish Roe	140	0	0
Lobster	99	0	0
Rock Cod	75	0	0
Rock Crab	65	0	0
Roughhead Grenadier	61	44	72
Arctic Charr	39	0	0
Winter Flounder	38	0	0
Skate	25	7	29
Greysole-Witch Flounder	11	3	30
Eel	10	0	0
American Plaice	2	1	41
Atlantic Halibut	2	0	11
Sculpin	0	0	0
Total	115909	46085	

2007			
Commercial Species	Landed Weight (t) All NAFO Areas	Landed Weight (t) Study Area	% Landed Weight in Study Area
Pandalus Borealis Shrimp	80072	56494	71
Capelin	13024	0	0
Queen-Snow Crab	9423	1572	17
Mackerel	8768	0	0
Greenland Halibut (Turbot)	2402	1566	65
Pand. Montagui Shrimp	2060	1886	92
Cod	1037	0	0
Herring	377	0	0
Spider-Toad Crab	312	0	0
Whelks	148	0	0
Lumpfish Roe	131	0	0
Illex Squid	117	0	0
Lobster	110	0	0
Winter Flounder	83	0	0
Rock Crab	53	0	0
Icelandic Scallops	40	0	0
Roughhead Grenadier	32	22	68
Arctic Charr	29	0	0
Sea Raven	24	0	0
Redfish	20	7	33
Sculpin	19	0	0
Eel	13	0	0
Skate	6	2	40
American Plaice	2	0	0
Greysole-Witch Flounder	2	2	94
Total	118305	61552	

2008			
Commercial Species	Landed Weight (t) All NAFO Areas	Landed Weight (t) Study Area	% Landed Weight in Study Area
Pandalus Borealis Shrimp	70650	47669	67
Capelin	13043	0	0
Mackerel	9125	0	0
Queen-Snow Crab	7332	1141	16
Greenland Halibut (Turbot)	3674	1185	32
Cod	1464	0	0
Pand. Montagui Shrimp	1021	868	85
Herring	310	0	0
Spider-Toad Crab	263	0	0
Illex Squid	237	0	0
Whelks	158	0	0
Lumpfish Roe	125	0	0
Lobster	65	0	0
Winter Flounder	54	0	0
Rock Crab	43	0	0
Lumpfish	32	0	0
Arctic Charr	18	0	0
Icelandic Scallops	17	0	2
Redfish	11	6	48
Eel	10	0	0
Roughhead Grenadier	5	2	47
Skate	3	1	15
Greysole-Witch Flounder	0	0	43
Total	107660	50872	

2009			
Commercial Species	Landed Weight (t) All NAFO Areas	Landed Weight (t) Study Area	% Landed Weight in Study Area
Pandalus Borealis Shrimp	45631	31912	70
Queen-Snow Crab	15468	5599	36
Capelin	9823	0	0
Mackerel	6898	3	0
Greenland Halibut (Turbot)	6862	3187	46
Cod	1147	0	0
Pand. Montagui Shrimp	688	636	93
Herring	424	0	0
Illex Squid	398	0	0
Whelks	149	0	0
Spider-Toad Crab	140	0	0
Lobster	71	0	0
Lumpfish Roe	46	0	0
Rock Crab	45	0	0
Winter Flounder	42	0	0
Greysole-Witch Flounder	37	5	14
Redfish	28	12	44
Icelandic Scallops	17	0	2
Arctic Charr	15	0	0
Eel	9	0	0
American Plaice	7	2	32
Roughhead Grenadier	7	1	9
Skate	6	0	8
Total	87956	41359	

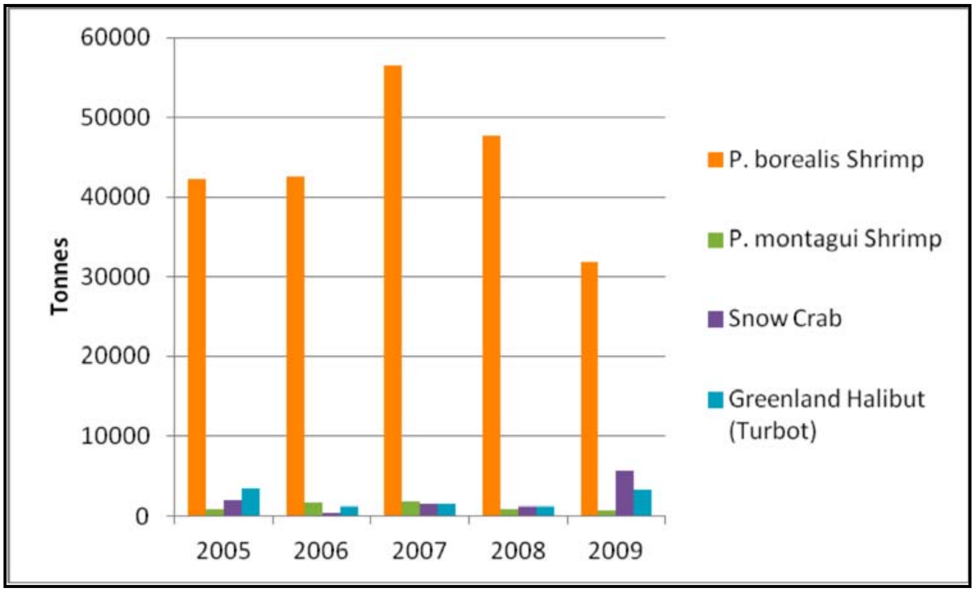


Figure 5.23 Harvest of Main Species Within the Study Area, 2005-2009

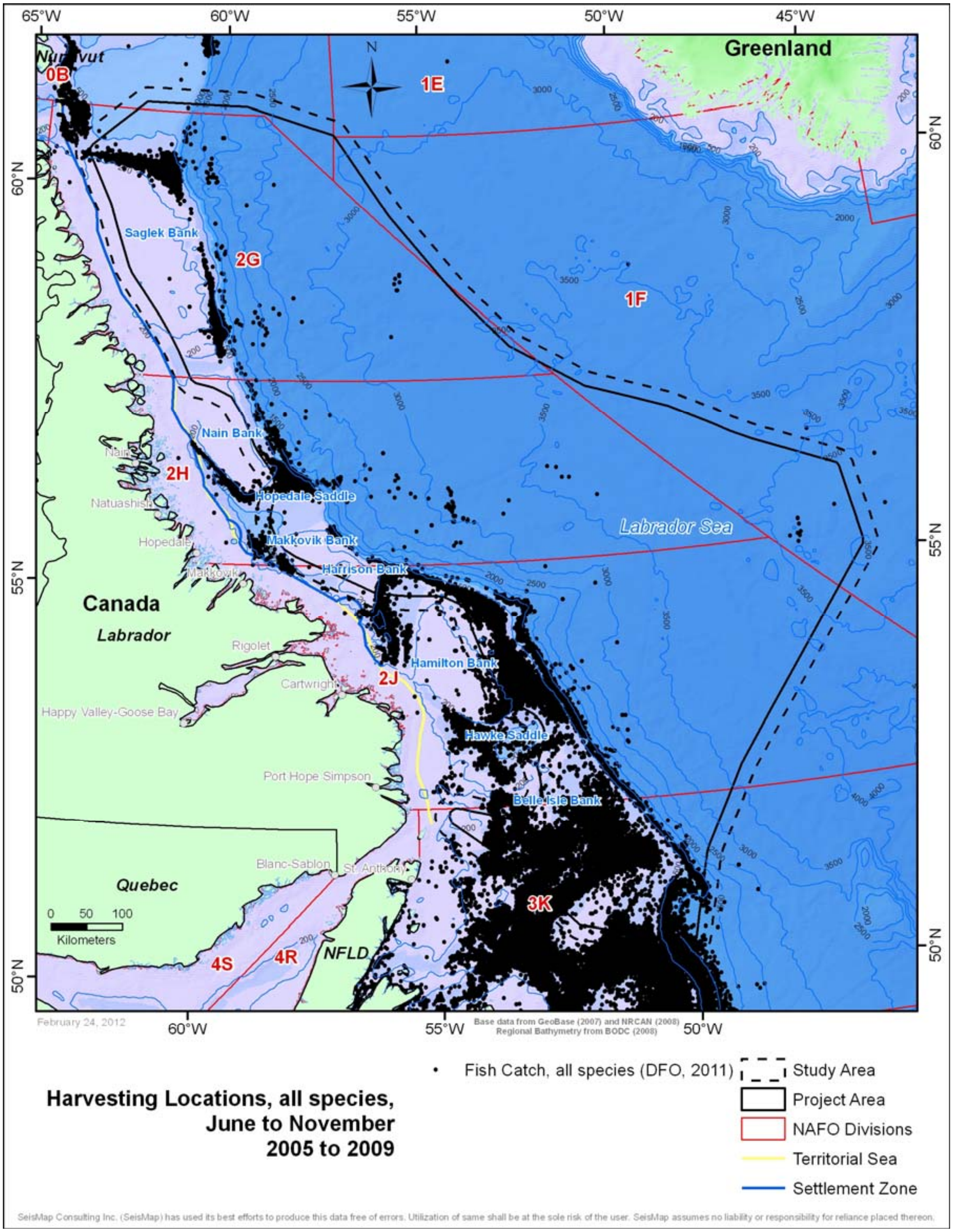
The second sentence of the second paragraph should be replaced with, "As the graph in Figure 5.23 indicates, the total quantity of the harvest increased fairly consistently after 2005, mainly the result of increasing shrimp catches in the Study Area, with a considerable decline after 2007. However, significant reductions in shrimp quotas after 2010 are expected to result and continue this general trend due to declines in significant biomass in SFA 6 and 5, of 50% and up to 15-40%, respectively (DFO 2010)."

The current Figure 5.21 should be renumbered Figure 5.23.

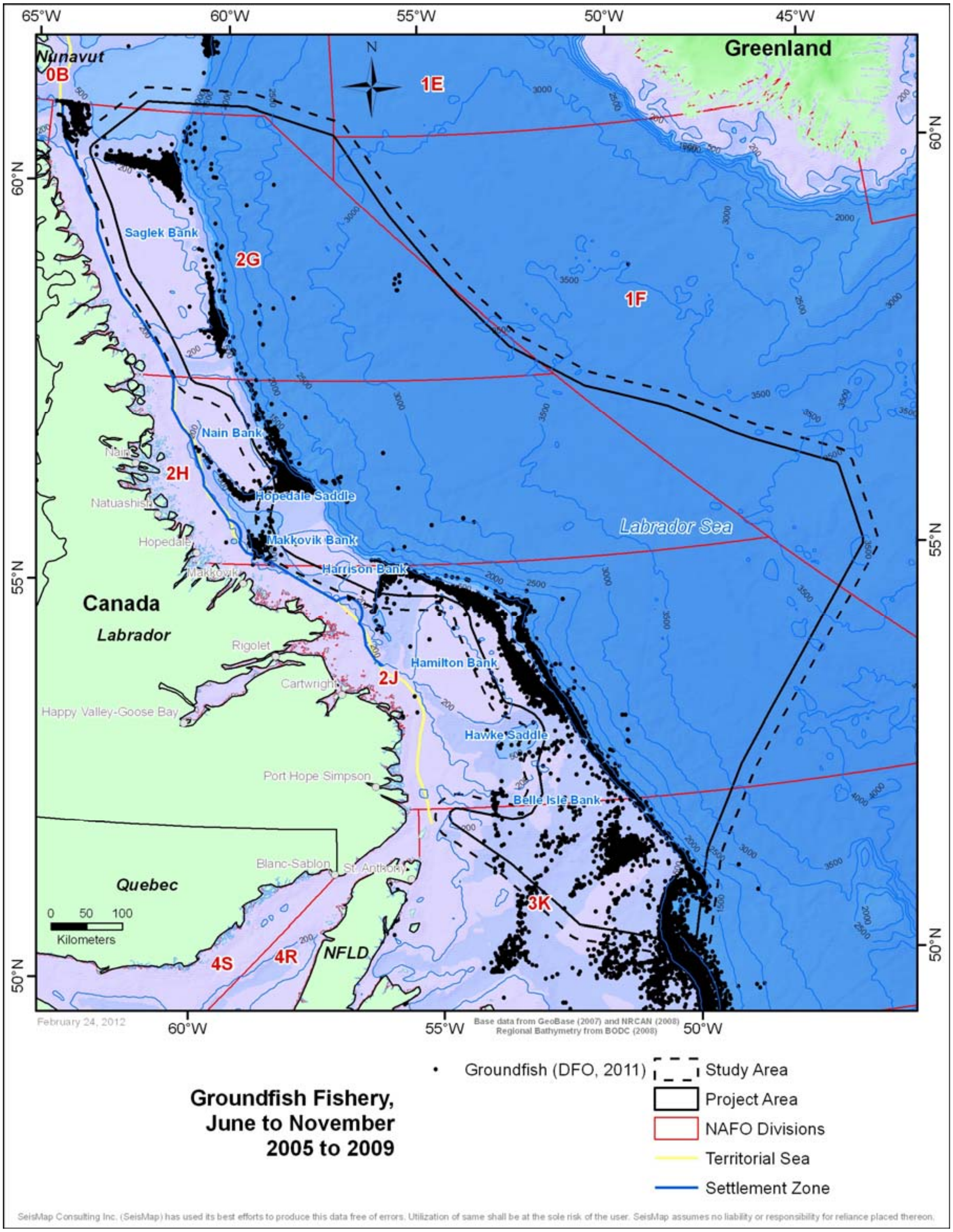
5.11.2 Harvesting Locations

The first and second paragraph of this section should be replaced with the following:

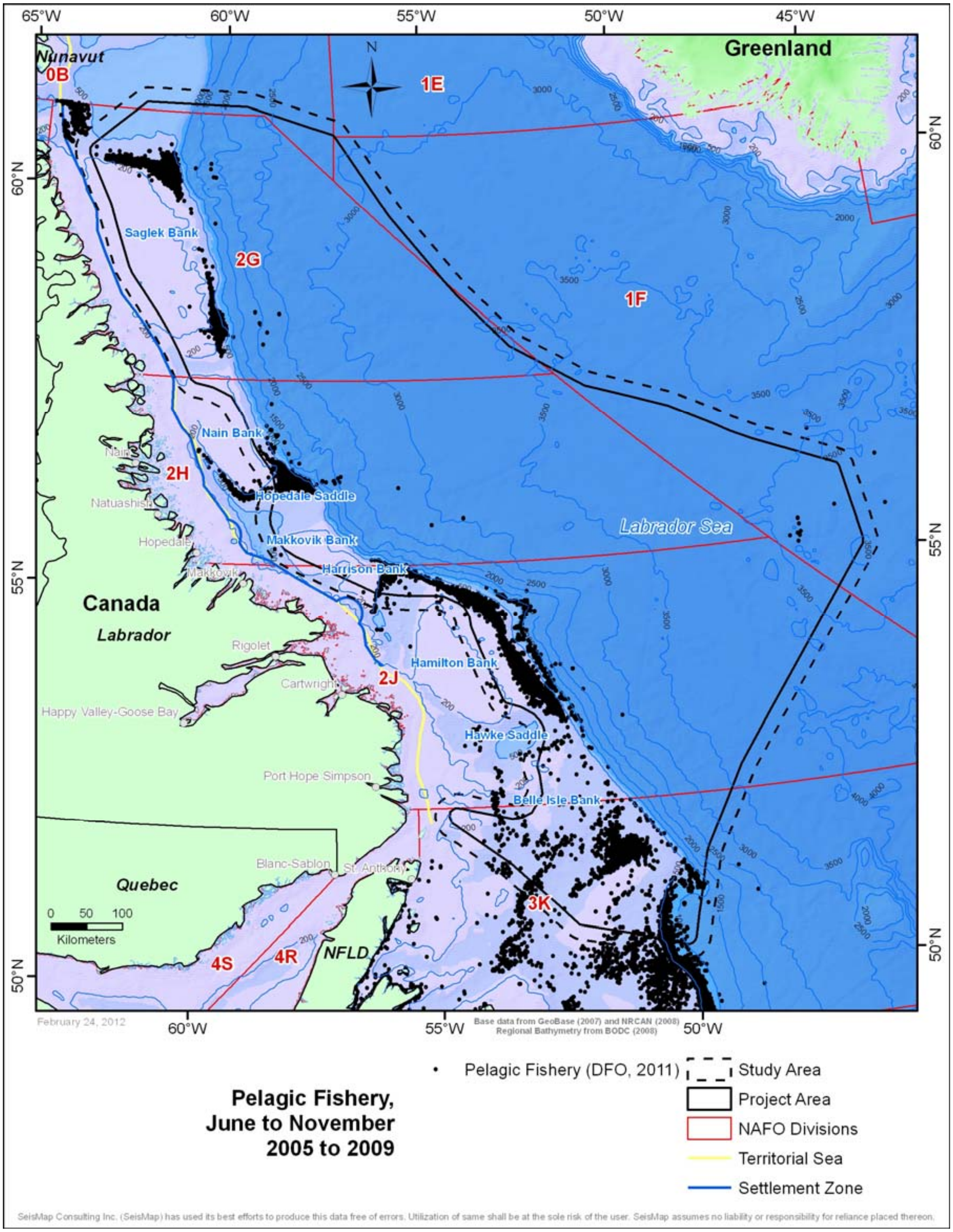
"The following map shows DFO dataset georeferenced fishing locations in relation to the Study Area for the period June to November, for 2005 to 2009. As Figure 5.24 illustrates, most of the domestic fish harvesting in the general area is concentrated inside the 1000 m contours of the Labrador Shelf, and along the edges of the banks. Figures 5.25 to 5.27 show harvesting locations for groundfish, pelagic fish, and shellfish."



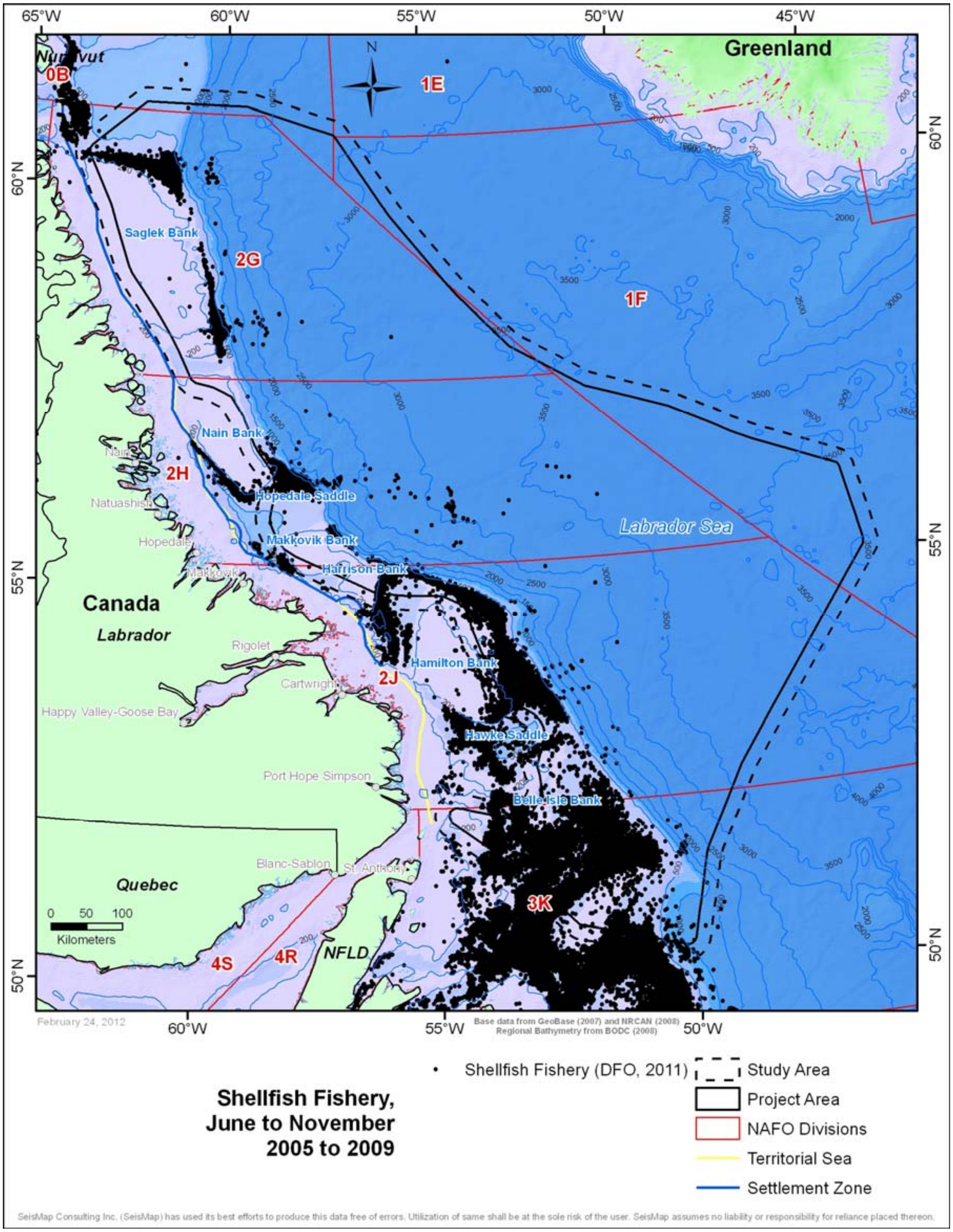
The current Figure 5.22 should be renumbered as Figure 5.24.



The current Figure 5.23 should be renumbered as Figure 5.25.



The current Figure 5.24 should be renumbered as Figure 5.26.



The current Figure 5.25 should be renumbered as Figure 5.27.

5.11.3 Harvest Timing

The last sentence of the first paragraph should be replaced with, “As the graph indicates in Figure 5.28, March, and May to September were the most productive months during this period.”

The current Figure 5.26 should be renumbered as Figure 5.28.

5.11.4.1 Northern Shrimp (Pandalus borealis)

The first paragraph of this section should be replaced with the following:

“The following maps show the monthly reported domestic harvesting locations for key species for June to November 2005 to 2009. Northern shrimp is the most significant species harvested within the Study Area in terms of quantity and value of harvest, accounting for, on average 44 190 t (more than 75-94% of the total harvest) between June and November in recent years. The Study Area overlaps with parts of Shrimp Fishing Area (SFA) 4, 5, and 6 (Figure 5.29) and is managed by Canada’s DFO. Figures 5.30 to 5.35 show harvesting locations for shrimp.”

The current Figure 5.27 should be renumbered as Figure 5.29. An additional figure has been added to include shrimp harvesting locations for June, 2005-2009.

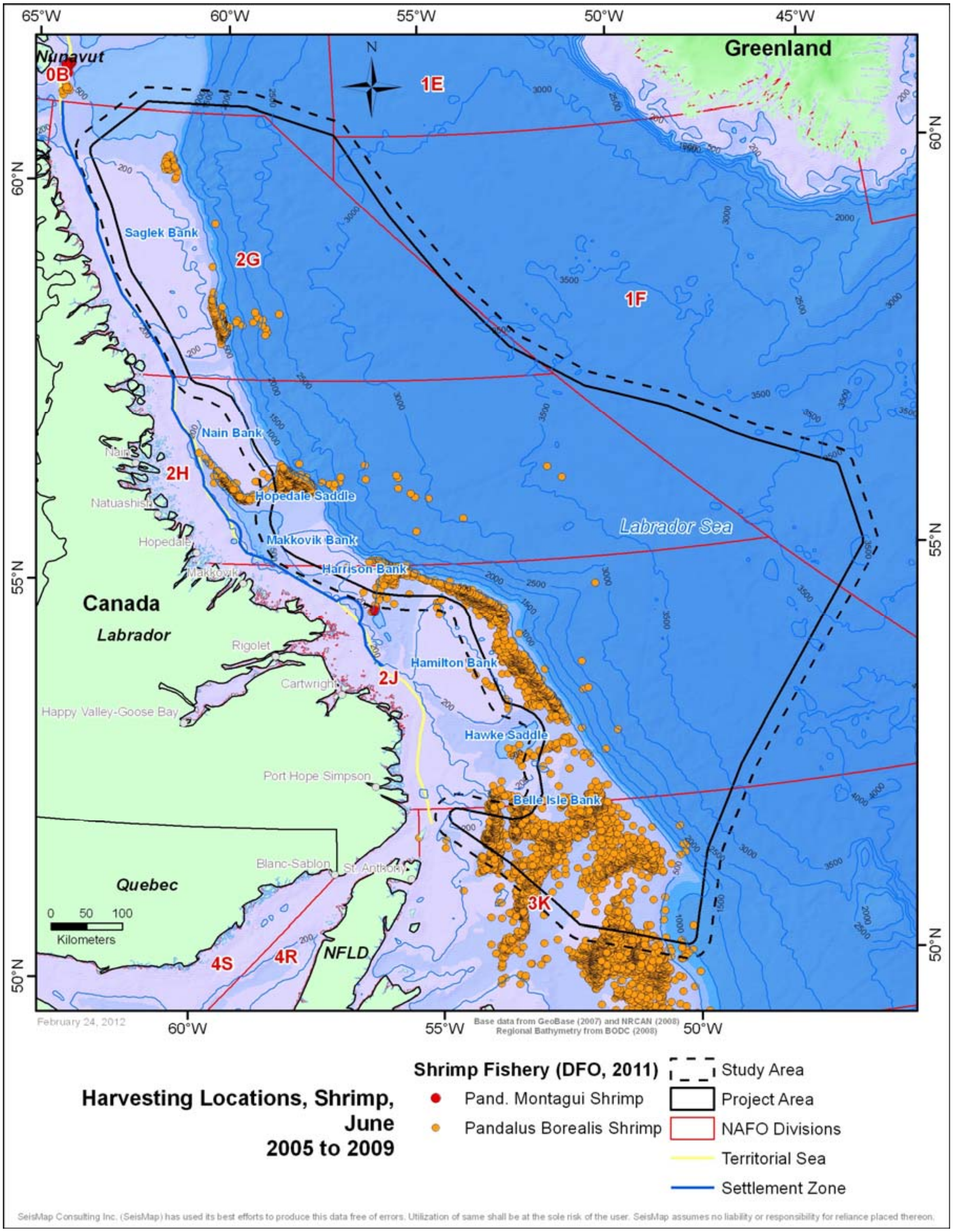


Figure 5.30. Harvesting Locations, Shrimp 2005 to 2009, June

The following figure captions have been replaced in Section 5.11.4:

Figure 5.27: Harvesting Locations, Shrimp, 2005 to 2009, July is replaced with Figure 5.31: Harvesting Locations, Shrimp 2005 to 2009, July.

Figure 5.28: Harvesting Locations, Shrimp, 2005 to 2009, August is replaced with Figure 5.32: Harvesting Locations, Shrimp 2005 to 2009, August.

Figure 5.29: Harvesting Locations, Shrimp, 2005 to 2009, September is replaced with Figure 5.33: Harvesting Locations, Shrimp 2005 to 2009, September.

Figure 5.30: Harvesting Locations, Shrimp, 2005 to 2009, October is replaced with Figure 5.34: Harvesting Locations, Shrimp 2005 to 2009, October.

Figure 5.31: Harvesting Locations, Shrimp, 2005 to 2009, November is replaced with Figure 5.35: Harvesting Locations, Shrimp 2005 to 2009, November.

Figure 5.32: Monthly Northern Shrimp Harvesting from 2005 to 2009 is replaced with, Figure 5.36: Monthly Northern Shrimp Harvesting from 2005 to 2009.

5.11.5 Snow Crab (Chionoecetes opilio)

The fourth paragraph of this section should be replaced with the following:

"Figure 5.37 shows the annual snow crab quantity of harvest from the study Area for 2005 to 2009. Figures 5.38 to 5.43 show the harvesting locations for the species (June to November, 2005 to 2009) in relation to the Study Area. The 2011 quotas for 2J (including 2H) is 2197 t and 12053t for Div 3K."

Figure 5.33 title should be replaced with, "Figure 5.37. Yearly Snow Crab Harvest, 2005 to 2009."

An additional figure has been added to include snow crab harvesting locations for June 2005-2009. Figure 5.38. Harvesting Locations, Snow Crab 2005 to 2009, June.

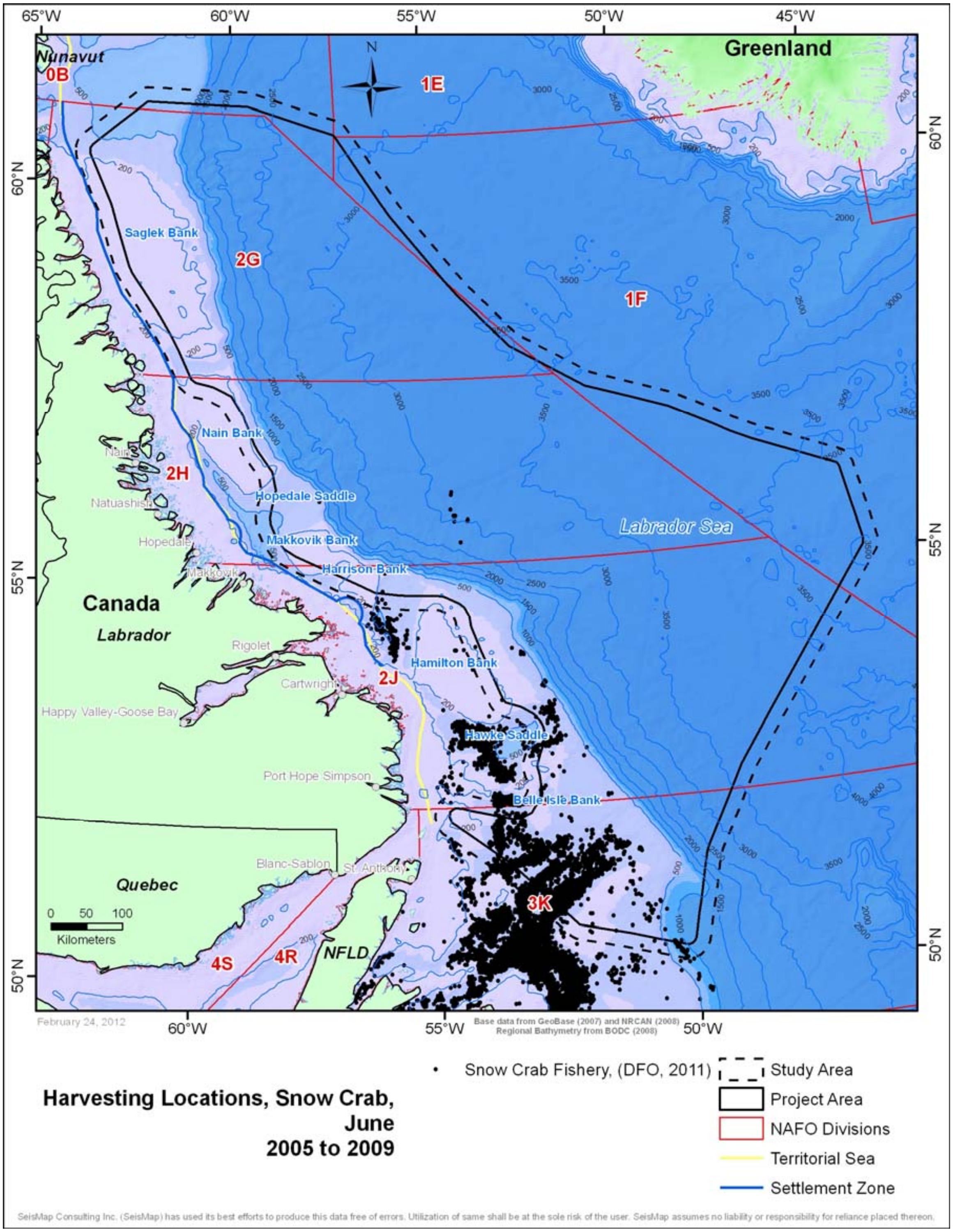


Figure 5.38. Harvesting Locations, Snow Crab, 2005 to 2009, June

The caption for Figure 5.34 Harvesting Locations, Snow Crab, 2005 to 2009, July should be replaced with, “Figure 5.39: Harvesting Locations, Snow Crab, 2005 to 2009, July.”

The caption for Figure 5.35 Harvesting Locations, Snow Crab, 2005 to 2009, August should be replaced with “Figure 5.40. Harvesting Locations, Snow Crab, 2005 to 2009, August.”

The caption for Figure 5.36 Harvesting Locations, Snow Crab, 2005 to 2009, September should be replaced with, “Figure 5.41. Harvesting Locations, Snow Crab, 2005 to 2009, September.”

The caption for Figure 5.37 Harvesting Locations, Snow Crab, 2005 to 2009, October should be replaced with, “Figure 5.42. Harvesting Locations, Snow Crab, 2005 to 2009, October.”

The caption for Figure 5.38 Harvesting Locations, Snow Crab, 2005 to 2009, November should be replaced with, “Figure 5.43. Harvesting Locations, Snow Crab, 2005 to 2009, November.”

5.11.6 Greenland halibut/ Turbot (Reinhardtius hippoglossoides)

Greenland halibut (often called turbot) represents about 0.1% of the Study Area catch by quantity and value, an average of just over 20 t between June and November over the five-year period. Most (about 99%) of this harvest in the Study Area is taken using fixed gear gillnets. For 2011, the quota is 0t in OB but here is a catch of 2122 t, 0 t for 2J but a catch of 26 t and a quota of 2365 t for 3K.

Figures 5.44 to 5.49 indicate the Study Area June to November domestic harvest.

An additional figure has been added to include Greenland halibut harvesting locations for June, 2005-2009. Figure 5.44. Harvest Locations, Greenland Halibut, 2005-2009, June.

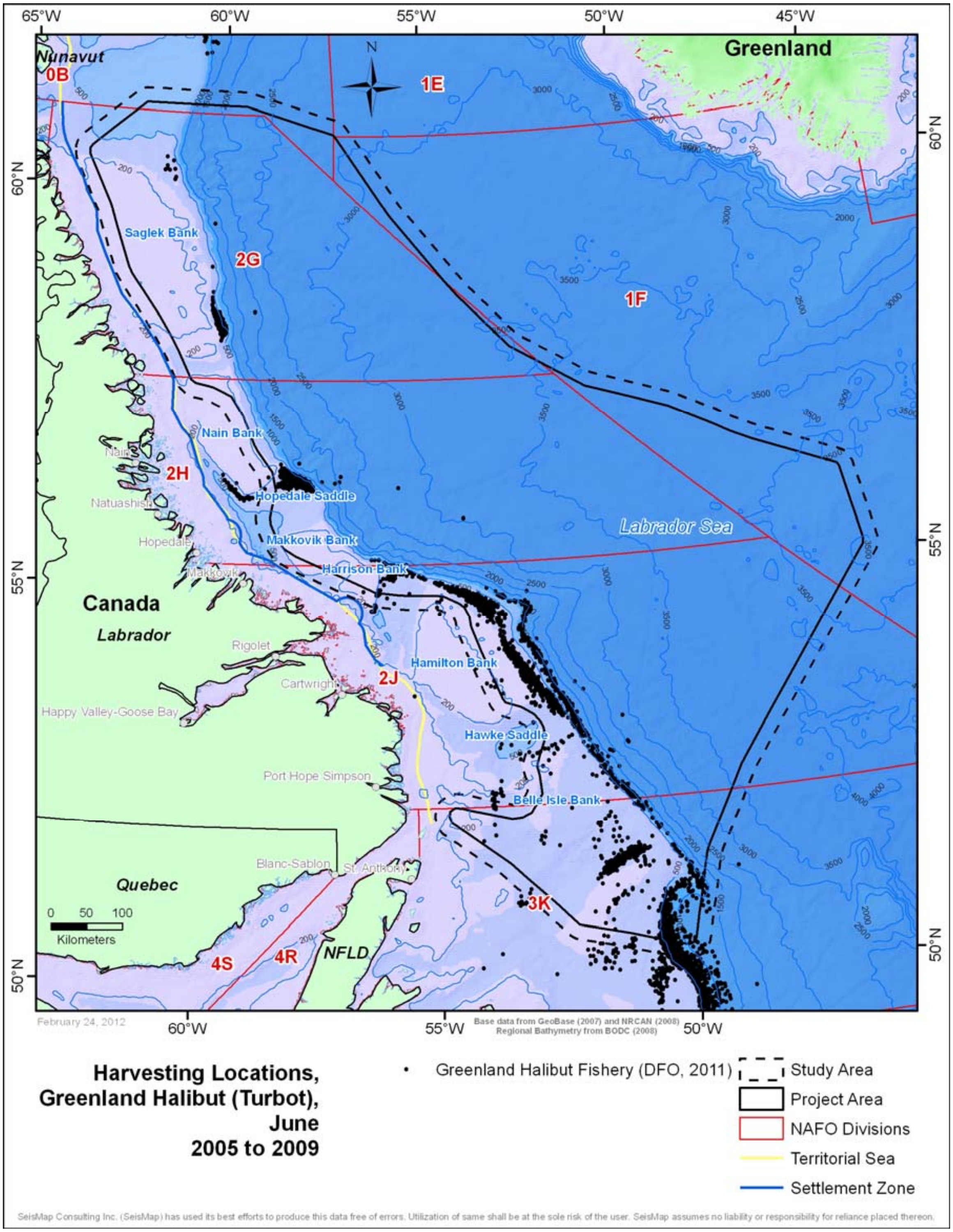


Figure 5.44. Harvest Locations, Greenland Halibut, 2005-2009, June.

The caption for Figure 5.39: Harvesting Locations, Greenland Halibut, 2005 to 2009, July should be replaced with Figure 5.45: Harvesting Locations, Greenland Halibut, 2005 to 2009, July.

The caption for Figure 5.40 Harvesting Locations, Greenland Halibut, 2005 to 2009, August should be replaced with Figure 5.46: Harvesting Locations, Greenland Halibut, 2005 to 2009, August.

The caption for Figure 5.41 Harvesting Locations, Greenland Halibut, 2005 to 2009 September should be replaced with Figure 5.47: Harvesting Locations, Greenland Halibut, 2005 to 2009, September.

The caption for Figure 5.42 Harvesting Locations, Greenland Halibut, 2005 to 2009, October should be replaced with Figure 5.48: Harvesting Locations, Greenland Halibut, 2005 to 2009, October.

The caption for Figure 5.43 Harvesting Locations, Greenland Halibut, 2005 to 2009, November should be replaced with Figure 5.49: Harvesting Locations, Greenland Halibut, 2005 to 2009, November

The last sentence in this section should be replaced with, "The following graph in Figure 5.50 shows the monthly Greenland halibut harvest from the Study Area, indicating a widely varied fishery in this area."

The title for Figure 5.44 Monthly, Greenland Halibut, Harvesting 2005 to 2009 should be renumbered Figure 5.50.

5.16 PETROLEUM INDUSTRY

There is no change to other Operator's petroleum seismic programs in the Labrador Sea.

5.17 MILITARY

The first paragraph of this section should be replaced with the following:

"DND is likely to be transiting and conducting naval exercises within the Study Area during the June to November 2012 to 2013 timeframe. Unexploded ordinate (UXO) data is available for the Study Area so a search of the records was conducted to determine the possible presence of UXO within the MKI Project Description survey area. DND records indicate that the following four shipwrecks are present within the Survey Area: Everoja, Flynerborg, Gretavale, and Empire Gemsbuck from convoy SC-52 were sunk by German U-boats U-202 and 203 on 3rd November 1941. Further, a vessel (Mount Maycale) from convoy SC-117 was sunk by U-boat U-413 on 22nd January 1943. Records indicate that all five ships were carrying general cargo at the time; consequently, it is possible munitions were part of that cargo.

One aircraft wreck, a B-24J, Bomber, was reported to be present in the northern part of the survey area (Long – 58.666667, Lat – 59.216667)). However, given that supporting information is limited, it is assessed that the reported position of this aircraft is only approximate. B24 aircrafts used in the Maritime Patrol role were typically of Very Long Range (VLR) configuration, carrying a maximum load of 2700lbs of torpedoes, depth charges, and 0.50 calibre machine gun ammunition. Consequently, it is possible that munitions were aboard."

6. EFFECTS ASSESSMENT OF PROJECT ACTIVITIES

Section 6.0 has been updated to include temporal boundaries from June to November. Sections where updates are required are shown below.

6.1 MARINE AND MIGRATORY BIRDS

6.1.2 Boundaries

The first paragraph of this section should be replaced with the following:

"With respect to temporal boundaries, the potential interactions of concern are those related to the seismic activities that could occur in June to November for surveys during a three year (2011 to 2013) time period.

6.2 MARINE FINFISH AND SHELLFISH

6.2.1 Boundaries

The second paragraph of this section should be replaced with the following:

"With respect to temporal boundaries, the potential interactions of concern are those related to the seismic activities that could occur in June to November in 2011 until 2013. Although exact timing of potential surveys post-2012 is not known at this time, fishing interests will be considered in the planning of future surveys."

6.3 MARINE MAMMALS

6.3.1 Boundaries

The second paragraph of this section should be replaced with the following:

"Temporal boundaries for this analysis are defined by the Project schedule (June to November). Temporal ecological boundaries for cetaceans and pinnipeds vary according to species. Most cetaceans are migratory and occur in the Study and Regional Areas predominantly during the summer and fall months. Pinnipeds will occur year round."

6.4 SEA TURTLES

6.4.1 Boundaries

The second paragraph of this section should be replaced with the following:

"Temporal boundaries are defined by the Project schedule (June to November). Based on data collected by DFO, marine turtles are likely to occur in the Study Area during the summer and fall months. For the purpose of this assessment, it is assumed that any species of sea turtle that could potentially be present offshore Labrador could be present within the Study Area."

6.7 TRADITIONAL AND COMMERCIAL FISHERIES AND SURVEYS

6.7.1 Boundaries

The second paragraph of this section should be replaced with the following:

"With respect to temporal boundaries, the potential interactions of concern are those related to the exploration seismic activities that are planned to occur intermittently between June and November in 2011 to 2013."

6.7.4.1 Vessel Presence

The first paragraph of this section should be replaced with the following:

"Traditional and commercial fish harvesting activities occur throughout the June to November survey period being assessed, although the timing of specific fisheries varies. Of these, the fixed gear: long-line fishery, gill-net fishery and pot fishery for snow crab pose the highest potential for interaction conflict, particularly if they are concurrent with seismic survey operations. For the 2-D program, the seismic vessel will operate intermittently on a 24-hour basis for a period of 40 to 60 days."

6.7.4.4 Cumulative Effects

The first paragraph of this section should be replace with the following:

"Seismic vessels activity is considered a minor component of marine transportation. A single geophysical survey in any year from June to November in 2011 to 2013, is minor compared with the thousands of commercial tankers, cargo ships, research vessels, cruise ships, and fishing vessels in the vicinity of Labrador. The additional vessel activity from the survey is negligible compared to the other vessels and cumulative impacts on species at risk are not significant."