Year of Catch	Commercial Species	Total Landed Weight (tones)	Total Landed Weight in Study Area (tons)	% Total of Landed Weight in Study Area
2006	Capelin	14366167.00		0.00%
2006	Cod	929489.00	728.00	0.00%
2006	Eel	10323.00		0.00%
2006	Greysole-Witch Flounder	1931.00	1196.00	0.00%
2006	Goundfish, Heads	300151.00		0.00%
2006	Herring	209244.00		0.00%
2006	Illex Squid	2424371.00		0.00%
2006	Lobster	17456.00		0.00%
2006	Icelandic Scallops	643010.00	214.00	0.00%
2006	Mackerel	19156585.00	123015.00	0.34%
2006	Pand. Montagui Shrimp	2399225.00	1640481.00	4.48%
2006	Pandalus Borealis Shrimp	59716863.00	34177278.00	93.31%
2006	Queen-Snow Crab	244989.00	108987.00	0.30%
2006	Redfish	226492.00	125240.00	0.34%
2006	Rock Cod	44404.00		0.00%
2006	Rock Crab	65341.00		0.00%
2006	Roughhead Grenadier	10623.00	3742.00	0.01%
2006	Sculpin	374.00		0.00%
2006	Sea Urchin	23084.00		0.00%
2006	Skate	4373.00	1940.00	0.01%
2006	Spider Toad Crab	331408.00		0.00%
2006	Turbot-Greenland Halibut	2788741.00	444380.00	1.21%
2006	Whelks	202387.00		0.00%
2006	Winter Flounder	38385.00		0.00%
2006	Yellowtail Flounder	1.00		0.00%
2006	**Grand Total**		**36627413.00**	**100.00%**
2005	American Place	1053.00		0.00%

Year of Catch	Commercial Species	Total Landed Weight (tones)	Total Landed Weight in Study Area (tons)	% Total of Landed Weight in Study Area
2005	Arctic Charr	4506.00		0.00%
2005	Atlantic Halibut	1352.00	332.00	0.00%
2005	Capelin	12193800.00		0.00%
2005	Cod	490057.00	60.00	0.00%
2005	Greysole-Witch Flounder	7754.00	2347.00	0.01%
2005	Groundfish, Heads	531207.00	205660.00	0.57%
2005	Haddock	998.00	998.00	0.00%
2005	Icelandic Scallops	656242.00		0.00%
2005	Monkfish	18.00	18.00	0.00%
2005	Pand. Montagui Shrimp	1753088.00	785871.00	2.18%
2005	Pandalus Borealis Shrimp	59819539.00	32452124.00	89.93%
2005	Queen-Snow Crab	781922.00	162317.00	0.45%
2005	Redfish	127949.00	84856.00	0.24%
2005	Rock Cod	368.00		0.00%
2005	Rock Crab	76637.00		0.00%
2005	Roughhead Grenadier	68172.00	32801.00	0.09%
2005	Skate	18897.00	11869.00	0.03%
2005	Spider Toad Crab	512781.00		0.00%
2005	Turbot-Greenland Halibut	5531368.00	2343490.00	6.49%
2005	Whelks	91377.00		0.00%
2005	White Hake	2071.00	2071.00	0.01%
2005	Winter Flounder	37088.00		0.00%
2005	Yellowtail Flounder	592.00		0.00%
2005	**Grand Total**		**36084814.00**	**100.00%**

The following graph indicates the changes in the total catch recorded annually within the Study Area for the 2005 to 2009 period. As the graph in Figure 5.21 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).

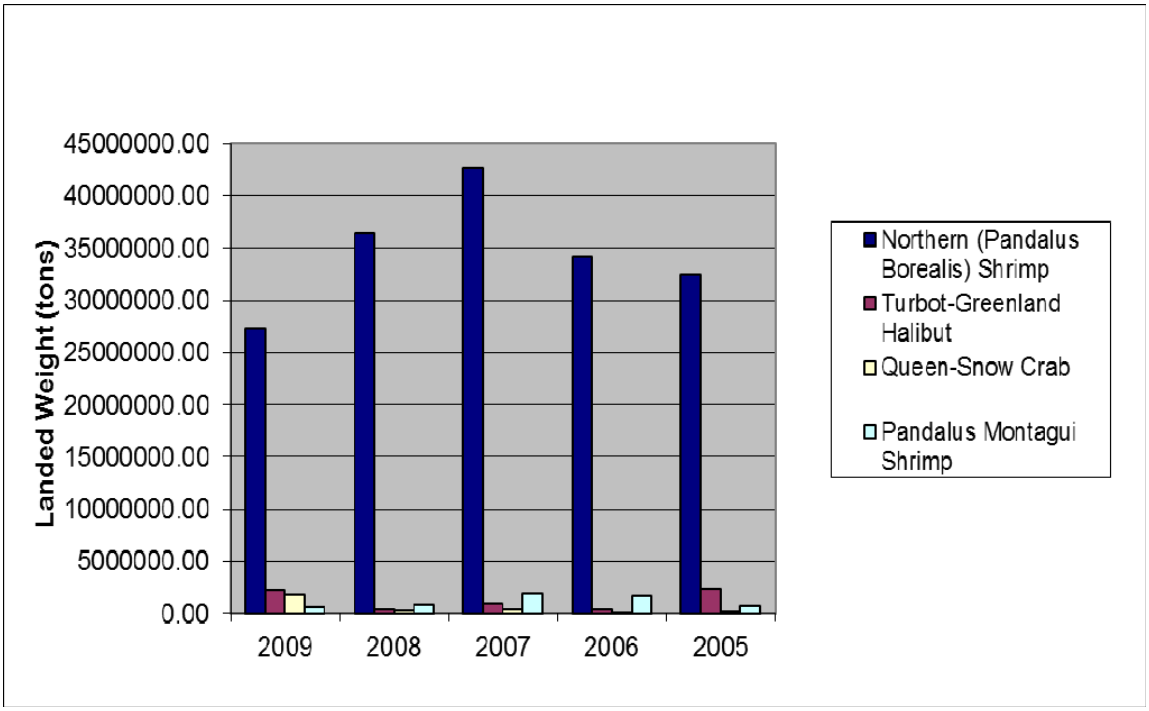


Figure 5.21: Harvest of Main Species Within the Study Area, 2005 to 2009

5.11.2 Harvesting Locations

The following map shows DFO dataset georeferenced fishing locations in relation to the Study Area for the period July to November, for 2005 to 2009. As Figure 5.22 illustrates, most of the domestic fish harvesting in the general area is concentrated inside the 1,000 m contours.

Labrador Shelf, and along the edges of the banks. Figures 5.23 to 5.25 show harvesting locations for groundfish, pelagic, and shellfish.

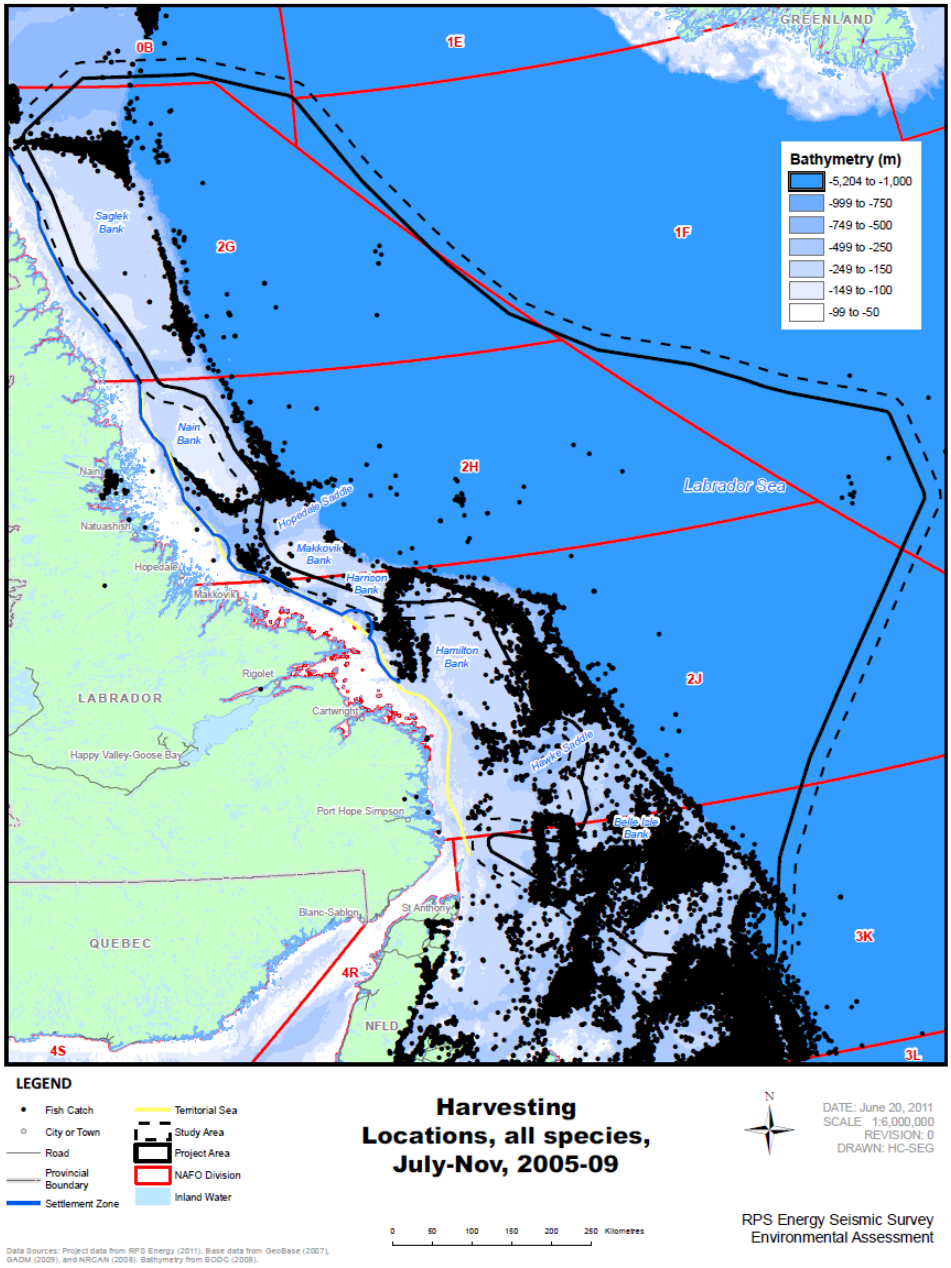
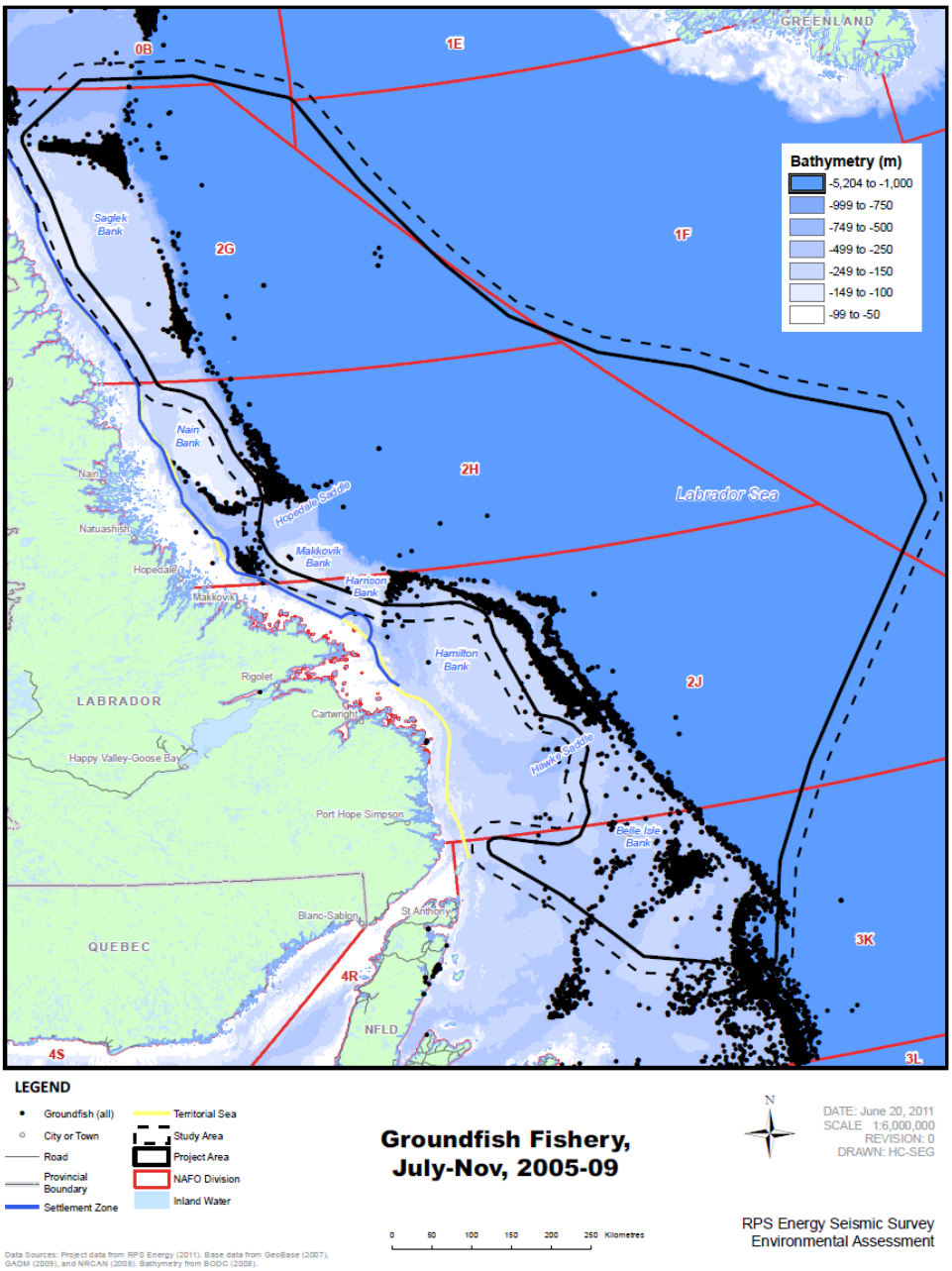


Figure 5.22: All Species Harvesting Locations July to November, 2005 to 2009



LEGEND

- Groundfish (all)
- City or Town
- Road
- Provincial Boundary
- Settlement Zone
- Territorial Sea
- Study Area
- Project Area
- NAFO Division
- Inland Water

Groundfish Fishery, July-Nov, 2005-09

0 50 100 150 200 250 Kilometres

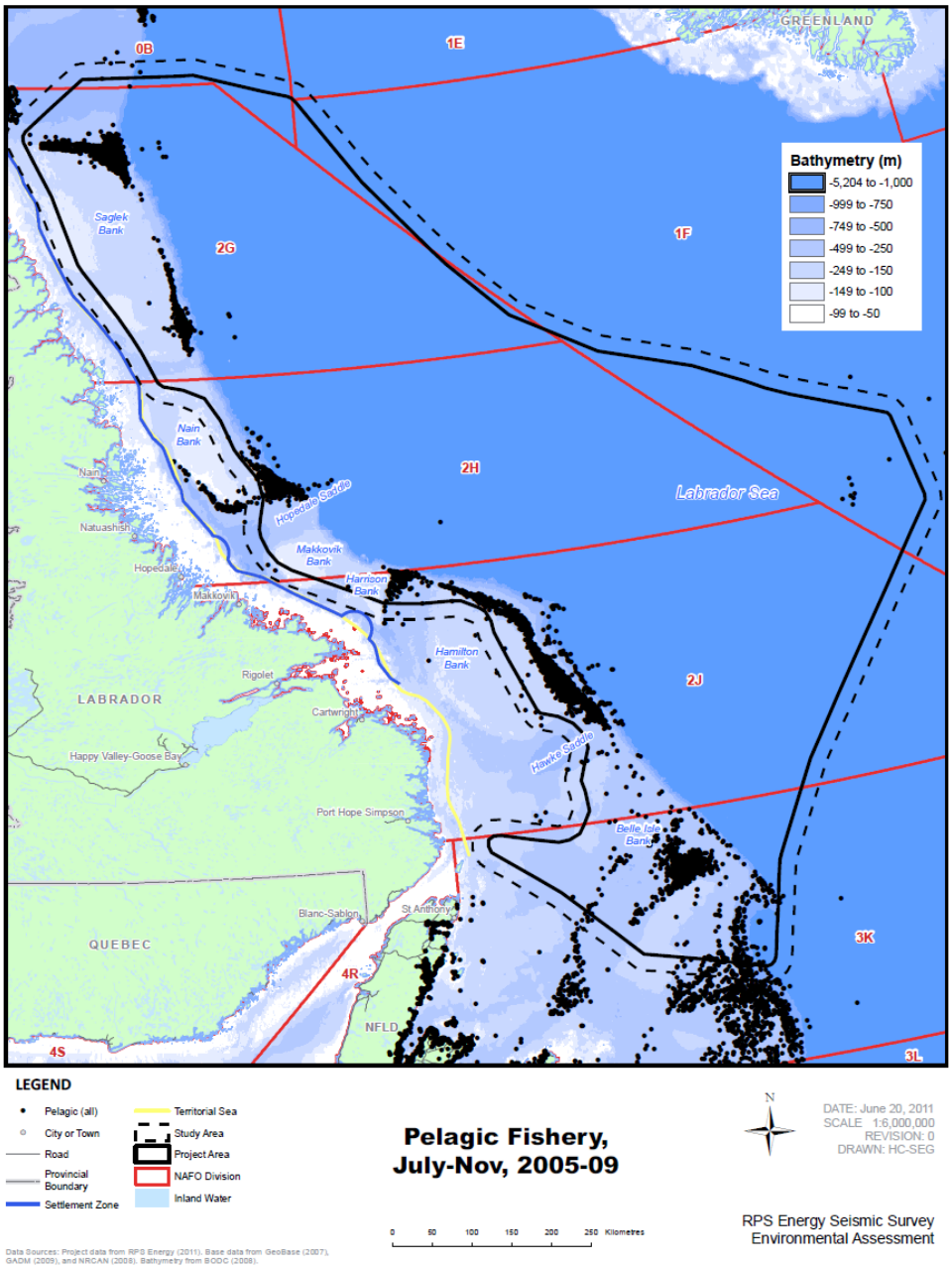
N

DATE: June 20, 2011
SCALE 1:6,000,000
REVISION: 0
DRAWN: HC-SEG

RPS Energy Seismic Survey
Environmental Assessment

Data Sources: Project data from RPS Energy (2011). Base data from GeoBase (2007), GADM (2009), and NRCAN (2008). Bathymetry from BODC (2008).

Figure 5.23: Harvesting Locations, Groundfish Fishery



LEGEND

- Pelagic (all)
- City or Town
- Road
- Provincial Boundary
- Settlement Zone
- Territorial Sea
- Study Area
- Project Area
- NAFO Division
- Inland Water

Pelagic Fishery, July-Nov, 2005-09

0 50 100 150 200 250 Kilometres

N

DATE: June 20, 2011
SCALE 1:6,000,000
REVISION: 0
DRAWN: HC-SEG

RPS Energy Seismic Survey
Environmental Assessment

Data Sources: Project data from RPS Energy (2011). Base data from GeoBase (2007), GADM (2009), and NRCAN (2008). Bathymetry from BODC (2008).

Figure 5.24: Harvesting Locations, Pelagic Fishery

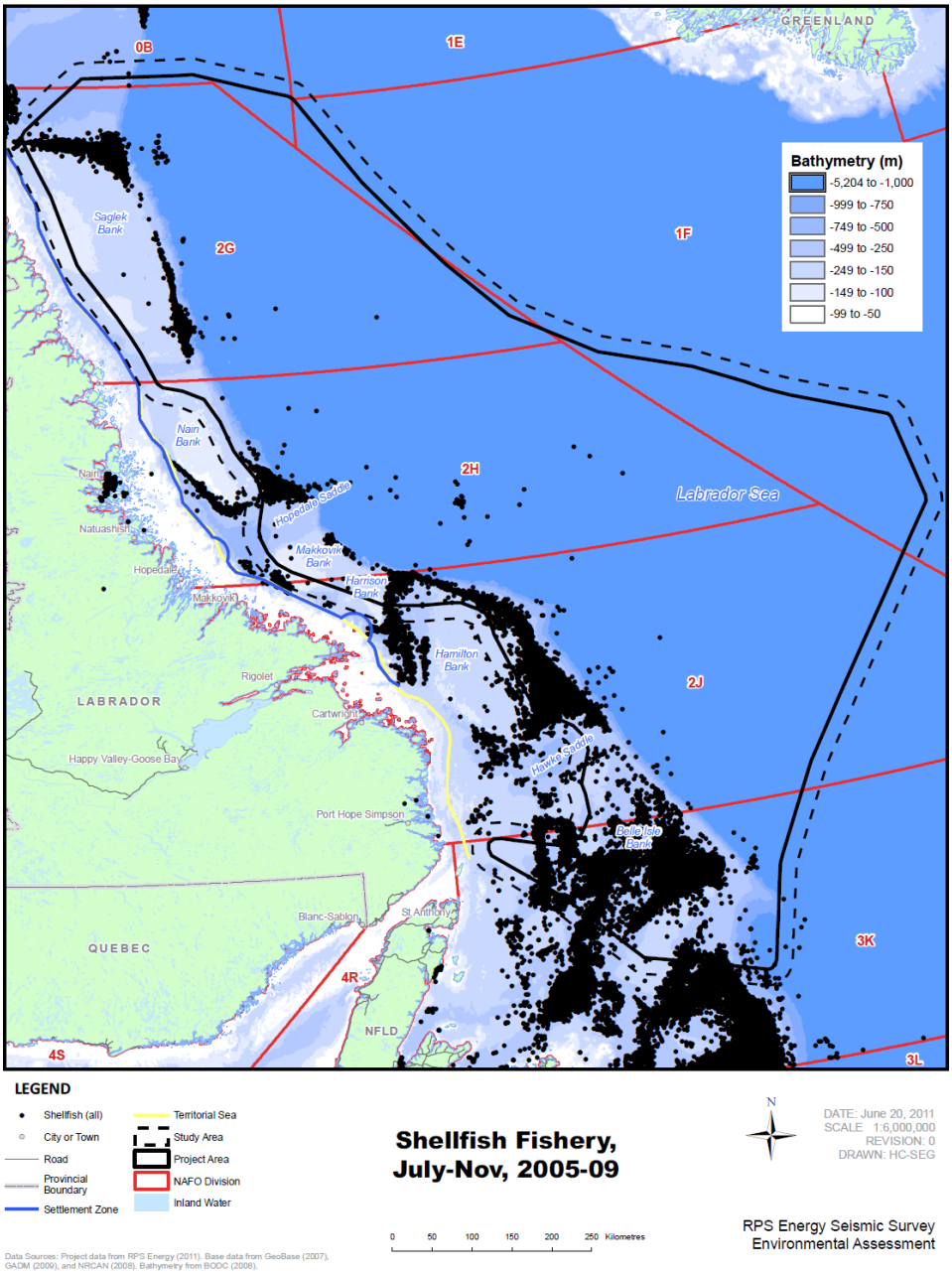


Figure 5.25: Harvesting Locations, Shellfish Fishery

5.11.3 HARVEST TIMING

The times that commercial species are harvested may change, depending on seasons and regulations set by DFO, the harvesting strategies of fishing enterprises, or on the availability of the resource itself. The following graph shows the 2005 to 2009 catch by month from the Study Area. As the graph indicates in Figure 5.26, March, and May to September were the most productive months during this period.

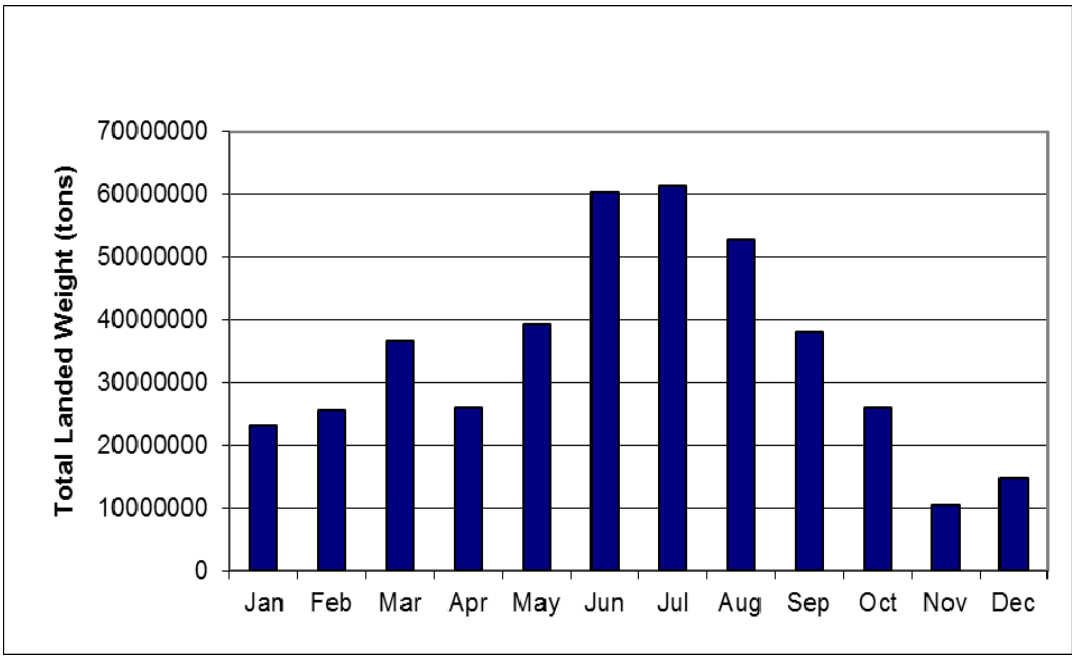


Figure 5.26: Average Monthly Domestic Harvest, All Species, 2005 to 2009

5.11.4 KEY FISHERIES

5.11.4.1 Northern Shrimp (Pandalus borealis)

The following maps show the monthly reported domestic harvesting locations for key species for July 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 31,567,502 t (more than 85-98% of the total harvest) between July and November in recent years. The Study Area overlaps with parts of Shrimp Fishing Area (SFA) 4, 5, and 6 (Figure 5.26) and is managed by Canada's DFO. Figures 5.27 to 5.31 show harvesting locations for shrimp.

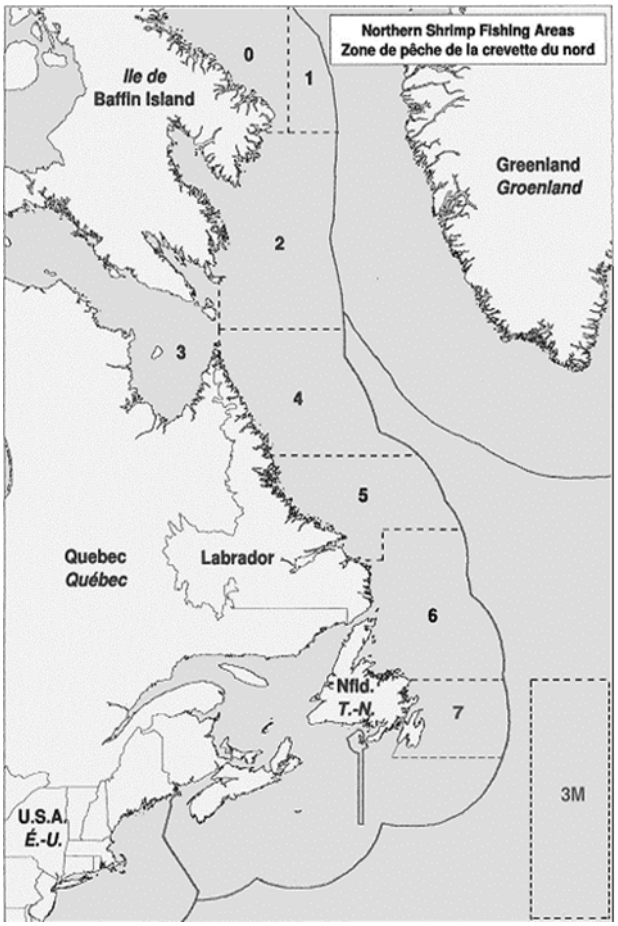


Figure 5.26: Shrimp Fishing Areas

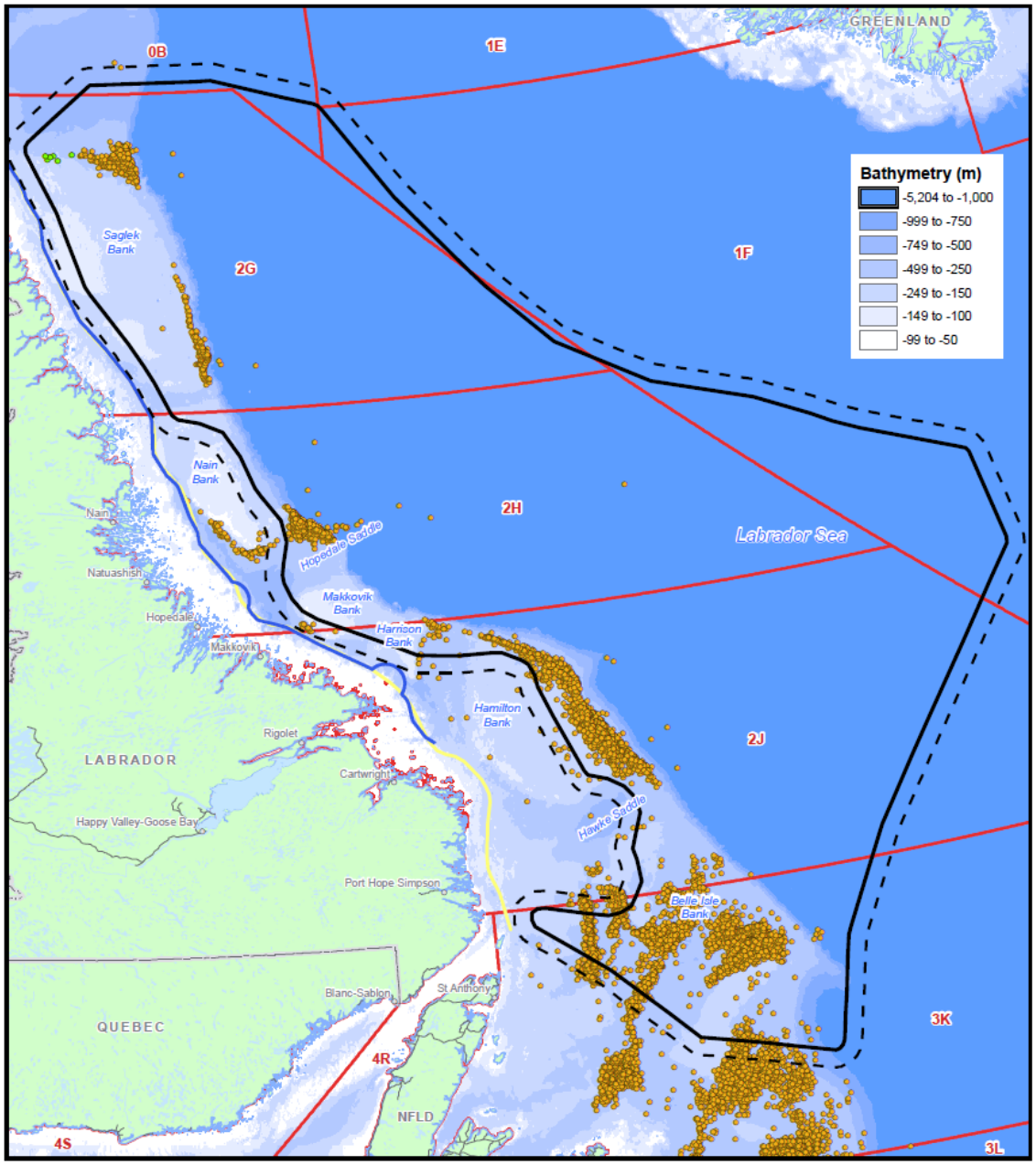


Figure 5.27: Harvesting Locations, Shrimp, 2005 to 2009, July