

GREENLAND

PROGRESS REPORT ON MARINE MAMMALS 2013

Compiled by The Greenland Institute of Natural Resources
 Catch, by-catch and strandings statistics provided by the Ministry of Fisheries, Hunting and
 Agriculture

I. INTRODUCTION

This report summarizes the research on pinnipeds and cetaceans done in Greenland in 2013 by The Greenland Institute of Natural Resources (GINR), in collaboration with several organizations.

II RESEARCH 2013

A Species and stocks studied

Pinnipeds

- Walrus *Odobenus rosmarus* – Northern Baffin Bay & West Greenland /Southern Baffin Island
- Hooded seals *Cystophora cristata* –Western Atlantic
- Harbour seal *Phoca vitulina* – Central West and South Greenland
- Bearded seal *Erignathus barbatus* – Baffin Bay and South Greenland
- Ringed seal *Pusa hispida* - West and East Greenland
- Harp seal *Pagophilus groenlandicus* – West Greenland

Cetaceans

- Narwhal *Monodon monoceros* - West and East Greenland
- Harbour porpoise *Phocoena phocoena* – West Greenland
- Sperm whale *Physeter macrocephalus* – West and East Greenland
- Bowhead whale *Balaena mysticetus* –West Greenland
- Humpback whale *Megaptera novaeangliae* - West and East Greenland
- Fin whale *Balaenoptera physalus* – West and East Greenland
- Minke whale *Balaenoptera acutorostrata* – West and East Greenland

B Field work in 2012

Walrus

To correct for availability bias (i.e. animals not seen because they were submerged) in aerial surveys, and to better understand the connectivity between walrus harvested in Qaanaaq and other areas, Inuit hunters tagged 8 walruses with satellite transmitters at the ice edge in the North Water Polynia.

Seals

The harbour seal is classified as “Critically Endangered” in the Greenland Red List, and in 2010 all hunting of harbour seals was banned. Despite reports of sporadic observations, no stable colonies have

been identified in recent years on the west coast north of Cape Farewell. Based on information from local hunters, a haul out site for harbor seals was identified south from Nuuk, in the municipality of Sermersooq in 2010, and information about a new one further south was obtained in 2012. Both places were monitored in 2013 and the presence of pups was confirmed for the southernmost site, suggesting that this location may seasonally contain a stable breeding colony.

Collection of stomach samples and other tissues from the seal harvest in the Icefjord near Ilulissat in Disko Bay started in 2012 and continued in 2013. The aims of the project are to identify the diet of seals in the area and to look into ecological interactions. Samples of fish are also collected and all the practical aspects of this project are run by locals.

In collaboration with the University of New York, and with oceanographic measurements as primary objective, 3 ringed seal were tagged with satellite transmitters in Sermilik Fjord, South of Tasiilaq in East Greenland and 4 were tagged in the Icefjord in Ilulissat, Disko Bay. The telemetry in Disko Bay may also help to produce advice regarding stock structure and management of ringed seals at a local level

Cetaceans

With the aim of mapping migration routes and understanding stock structure, GINR attempted to tag narwhals and belugas in Northwest Greenland (Qaanaaq) and narwhals in East Greenland (Scoresby Sund). This work was done with the help of local hunters.

To better understand their foraging behaviour, 4 narwhals from East Greenland were equipped with temperature sensitive stomach probes, coupled with acoustic tags and satellite transmitters.

Following a pilot study from 2012, with funding from the US Office of Naval Research, and with the aim of using sounds produced by narwhals to better understand the feeding ecology and vulnerability to anthropogenic impacts of this species, narwhals were recorded from leads in the pack ice in Baffin Bay during spring 2013. The recorders were made using a high frequency hydrophone array that should allow for estimating source levels in a full frequency spectrum.

During summer 2013 in Maniitsoq, 15 harbour porpoises were herded into nets by hunters working together with researchers. The porpoises were equipped with satellite transmitters attached to their dorsal fins.

In Tasiilaq, East Greenland, samples of the killer whale catch were collected for a study on contaminants led by the University of Aarhus.

As part of a comprehensive series of studies on the ecology, abundance and stock structure of bowhead whales, carried out by GINR in cooperation with other institutions, hunters from Qeqertarsuaq collected 65 biopsies from bowhead whales in Disko Bay between March and May. The samples are being used for sex determination, genetic identification and stock identity.

A project was launched in 2013, in cooperation with the US Fisheries and Wildlife Services, with the aim of developing equipment and techniques to deploy sound recorders on bowhead whales, to study the effect of anthropogenic noise on the behaviour of this species. In 2013, 4 bowhead whales were tagged with combined radio transmitters and acoustic recorders.

To obtain dive data for calibration of aerial surveys, hunters attached 3 satellite transmitters to minke whales in Maniitsoq during summer. This is a difficult task, for which methodology is under development.

As in previous years, the occurrence and site fidelity of humpback whales in Godhåbsfjorden (Nuuk) was investigated using photo-identification. Pictures of humpback whale flukes and dorsal fins were also provided by the public and tour operators in Nuuk and Disko Bay. In addition, 11 biopsies were obtained from humpback whales in Nuuk and one satellite tag was deployed.

As something unusual, two sperm whales spent several weeks in Godhåbsfjorden. Both individuals were photographically identified and biopsied, while satellite senders were attached to their backs and sound recordings were made.

In addition, data on background noise and eventual cetacean sounds were collected with moored hydrophones in Godhåbsfjorden. The expansion of activities near Nuuk was motivated by the need to gather baseline data before the establishment of a large scale iron mine.

A study of the ecology, movements and occurrence of large whales in East Greenland started in Tasiilaq in 2013, with a pilot season aimed at recognising the place, establishing contacts, initiating photo identification of humpback whales and deploying moorings for Passive Acoustic Monitoring (see below).

Biological samples and empiric data on the weight of edible products from 3 humpback whales were obtained in cooperation with whale hunters in 2013. This was a task requested by the International Whaling Commission.

As part of the requirements for obtaining a whaling licence, hunters from West Greenland provided GINR with tissue samples from 106 minke whales, 9 fin whales and 5 humpback whales, while 4 minke whales were submitted from East Greenland.

As in previous years, the seasonal acoustic activity of large whales and bearded seals was monitored by an array of recorders moored to the seabed at several locations in the Davis Strait and Baffin Bay. The passive acoustic monitoring in Baffin Bay and Davis Strait stopped in September 2013. Passive acoustic monitoring in East Greenland that started in 2012 continued in 2013, with the deployment of a recorder moored off Sermilik, Tasiilaq, in cooperation with the University of Washington and Woods Hole Oceanographic Institution.

The Danish Centre for Energy and Environment (DCE), University of Aarhus, maintains a database with observations collected by dedicated marine mammal and Bird Observers on board vessels carrying out seismic surveys under licences provided by the Bureau of Minerals and Petroleum.

C Laboratory work in 2013

Laboratory work carried out in 2013 included the analysis of stomach samples from seals and fish and in Nuuk, as well as genetic analyses of bowhead whales at the University of Oslo.

Subsamples of minke, fin and humpback whales from the Greenland tissue databank were processed and sent to laboratories in Sweden and Germany for analysis of stock structure.

Sound recordings from moorings in West and East Greenland are being analyzed for estimates of background noise and seasonal occurrence of cetaceans and bearded seals, as well as monitoring of seismic exploration.

D Other studies in 2013

A number of desktop studies were carried out during 2013, including analysis of catch statistics and assessments of walrus and harbour porpoise for scientific working groups under NAMMCO and of large whales for the IWC.

In 2013, Nynne Hjort Nielsen started a PhD study on the ecology of harbour porpoise in West Greenland.

In 2013, Outi Tervo obtained a grant for a postdoctoral position on bowhead whales, focusing primarily on acoustic behavior. The position started in 2014.

E Research results in 2012

Walrus

Results for the walrus studies can be seen in the report from the NAMMCO scientific working group on walrus from 2014

Seals

Analysis of the stomach samples and other data from the seal harvest is a work in progress.

Analysis of satellite telemetry data is also a work in progress, or has been published.

Cetaceans

The majority of research results from the fieldwork of 2013 are not available yet.

III ONGOING RESEARCH IN 2014

As in previous years, GINR focuses on identifying important areas for harbour seals in order to implement monitoring programs. The haulout site identified in 2012 in the municipality of Sermersooq was visited in 2013 and 2014. Tagging of ringed seals in the vicinity of Ilulissat (West Greenland) and Tasiilaq (East Greenland) for obtaining oceanographic data (temperature at depth) with the help of seals continued in 2014.

In order to understand the stock delineation and to obtain complementary data for abundance estimates, GINR runs a series of satellite telemetry studies on walrus, narwhals and belugas in West Greenland, as well as narwhals in East Greenland. Satellite telemetry of narwhals in East Greenland was complemented with the use of stomach temperature sensors to document feeding events and acoustic tags to develop techniques for assessing the impact of anthropogenic noise on cetaceans.

There was an aerial survey for walrus in the North Water Polynia during spring, with narwhal, beluga and bearded seal as secondary target species.

To better advise the Government of Greenland regarding the effect of oil exploration and other human activities in the narwhals of Melville Bay, 3 projects were carried out in 2014: an aerial survey during summer; deploying of moorings for passive acoustic monitoring of narwhals and seismic near selected glaciers and a social science study of local knowledge and perception on the effects of oil exploration in narwhals, based on interviews of hunters and analysis of catch data.

The long term studies of bowhead whales in Disko Bay for 2014 included biopsy taking for population studies and development of technology for combining satellite telemetry and recording sounds on the surface of whale bodies, in order to better understand the effect of sound from seismic air guns. In addition, oceanographic tags that record temperature, salinity, depth and position were tested. Furthermore, postdoctoral research focusing on the singing behavior of bowhead whales and the effects of anthropogenic noise was initiated. This also included fieldwork in the Beaufort Sea in Collaboration with Alaska Department of Fish and Game.

Collection of identification pictures of humpback whales flukes and dorsal fins from West Greenland continued throughout 2014. The work in Nuuk in 2014 included photo-identification and biopsy sampling

Studies of large whales in Tasiilaq, Southeast Greenland continued in 2014, and were expanded to include photo identification, biopsy darting, satellite telemetry and passive acoustic monitoring.

IV ADVICE GIVEN AND MANAGEMENT MEASURES TAKEN

Advice and quotas for cetaceans and pinnipeds in the calendar year 2013 are summarized in Table 1. Actual catches are given in Appendix 1.

According to legislation, animals that are struck but lost should be reported and will be taken from the quotas. However, the scarcity of reports suggests that there is underreporting of struck but lost animals for beluga, narwhal and walrus. The two stocks of walrus in West Greenland are also hunted in Canada. In consequence, walrus quotas are lower than the recommended removals to allow for struck but lost animals and for harvest in Canada.

Table 1. Advice and quotas for cetaceans and pinnipeds in the calendar year 2013

Species	Year advice given (year of survey used in assessment) (year of last survey)	Advisor	Advice	Quota 2013/ Management measure 2013
<i>Seals</i>				
Harbour seal	2010 (2010) (2014)	NAMMCO	Total protection	Protected since 2010
Grey seal	2009 (2009)	NAMMCO	Total protection	Protected since 2010
Harp seal	2013 (2012)	ICES/NAFO	No concern	No catch limit
Hooded seal	2013 (2012)	ICES/NAFO	No concern	No catch limit
<i>Walrus</i>				
Walrus – Baffin Bay	2010 (2009)	NAMMCO	68 or less removals	Quota of 74
Walrus Davis Strait – Baffin Island	2010 (2008)	NAMMCO	89 or less removals	Quota of 61
Walrus East Greenland	2010 (2008)	NAMMCO	20 or less removals	Quota of 18
Beluga	2012 (2006) (2012)	JCNB (& NAMMCO)	310 or less removals	Quota of 310
<i>West Greenland Narwhals</i>				
Inglefield Bredning	2012 (2009) (2014)	JCNB (& NAMMCO)	85 or less removals	Quota of 85
Melville Bay	2012 (2007) (2014)	JCNB (& NAMMCO)	81	Quota of 81
Uummannaq	2012	JCNB (& NAMMCO)	85 or less removals	Quota of 85
Disko Bay area	2012 (2006) (2012)	JCNB (& NAMMCO)	59 or less removals	Quota of 59
<i>East Greenland Narwhals</i>				
Ittoqqortormiit	2012 (2008)	NAMMCO (& JCNB)	70 or less removals	Quota of 70
Tasiilaq	2012 (2008)	NAMMCO (& JCNB)	18 or less removals	Quota of 18
<i>Large whales West Greenland</i>				
Bowhead whale	2012 (2006) (2013)	IWC (Scientific committee only)	2 or less removals	Quota of 2
Humpback whale	2012 (2007)	IWC (Scientific committee only)	10 or less removals	Quota of 10
Fin whale	2012 (2007)	IWC (Scientific committee only)	19 or less removals	Quota of 19
Minke whale	2012 (2007)	IWC (Scientific committee only)	178 or less removals	Quota of 178
<i>Large whales East Greenland</i>				
Minke whale	2012	IWC (Scientific committee only)	12 or less removals	Quota of 12

With the exemption of Walrus in the Baffin Bay stock, all catch levels of cetaceans and pinnipeds in 2013 were in accordance with biological advice. A working group under the NAMMCO Scientific Committee assessed walrus catches of all Greenland stocks, using the catches from 2013 in the analysis. Following this assessment, an updated advice was provided by NAMMCO in 2014 and the quotas for 2014 were closer to the advice.

In 2013, NAMMCO recommended that Greenland should take a closer look at the accuracy of catch data for harbor porpoises and killer whales. This work has not been completed.

In 2014, the CITES management authority of Greenland requested an updated Non Detriment Findings report (NDF) from its scientific authority. The NDF was not completed at the time of writing this national progress report.

During 2014, most quotas were according to biological advice, with exemption of narwhals in Melville Bay, where atypically open water in spring led to the quota being used before start of the summer hunting season.

Quotas for large whales are normally set by the IWC. However, in 2012 there was no agreement about quota levels for Greenland for the period 2013-2018. In the absence of IWC quotas, the Government of Greenland set catch levels based on the advice of the Scientific Committee of the IWC. The IWC has moved from yearly to biennial meetings, so Greenland quotas for 2014 were also self imposed. On its meeting in 2014, the IWC agreed upon quotas for the remaining years of the block period; 2015 – 2018.

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VI APPENDIX 1 - CATCH DATA

Catch data for hunting and fishing is collected and administrated by the Ministry of Fisheries, Hunting and Agriculture.

Since 1993, catches of the most common game species, including pinnipeds and small whales, are voluntarily reported on a form that hunters have to send to the government in order to renew their hunting permit. This form contains information about monthly catches from October to September the following year. Since 2013 it is possible, but not mandatory to submit the information online. The information is stored in the Pinarneq/LULI database. The database includes also information about the hunter's status as either full time hunter or leisure time hunter, personal information such as date of birth, address, social security number, etc. and information about the town or settlement where the hunter lives. This database is linked to a larger fisheries database (LULI). In 2014, catch statistics for full years from Pinarneq/Jagtsystemet are only available for 2012 and before.

Catches of quoted species (narwhal, beluga, walrus, polar bear and large whales) are reported also in separated and more detailed special forms, which are delivered to the local authorities shortly after a catch and used to keep control over the number of licenses issued and the day to day status of the quota for each particular region. The local authorities forward the special forms regularly to the Hunting Agency of the Ministry of Fisheries, Hunting and Agriculture. The forms are input manually into Excel databases and into LULI (the hunting/fisheries database). Updated copies of these databases to use in assessments and other research are provided on request and yearly to the Greenland Institute of Natural Resources, who also has VPN access to the database. The information in the databases include, for each catch, date and position, information about the hunting method and time to death and biological data such as age class, gender, size, reproductive state and stomach contents.

Catch statistics for 2013 are shown in Table 2 (cetaceans) and Table 3 (pinnipeds).

Table 2. Reported catches of cetaceans in Greenland in 2013

Species (latin name)	Year or Season	Stock Area / Region or Management Area	Catch or Strikes incl. Losses			Quota
			Male	Female	Total incl. Unkn.	
<i>Balaenoptera acutorostrata</i> / Minke whale #	2013	West GRL	37	127	175 (2 of unknown gender)	178
<i>Balaenoptera acutorostrata</i> / Minke whale	2013	East GRL	1	3	6	12
<i>Balaenoptera physalus</i> / Fin whale	2013	West GRL	3	5	9 (1 of unknown gender)	19
<i>Megaptera novaeangliae</i> / Humpback whale	2013	West GRL	4	3	8	10
<i>Balaena mysticetus</i> / Bowhead whale	2013	West GRL			0	2
<i>Delphinapterus leucas</i> / White whale	2013	West GRL			268	330
<i>Delphinapterus leucas</i> / White whale	2013	Qaanaaq			26	20*
<i>Monodon monoceros</i> / Narwhal	2013	West GRL			122	144
<i>Monodon monoceros</i> / Narwhal	2013	Inglefield Bredning			83	85*
<i>Monodon monoceros</i> / Narwhal	2013	Melville Bay			70	81
<i>Monodon monoceros</i> / Narwhal	2013	East GRL			65	88
<i>Odobenus rosmarus</i> / Walrus	2013	West GRL			47	3) 60
<i>Odobenus rosmarus</i> / Walrus	2013	Northwater			65	1) 2) 62
<i>Odobenus rosmarus</i> / Walrus	2013	East GRL			8	18
<i>Globicephala melas</i> / Long-finned pilot whale	2013	GRL			154	
<i>Orcinus orca</i> / Killer whale	2013	GRL			35	
<i>Delphinidae</i> / Dolphins nei	2013	GRL			89	
<i>Phocoena phocoena</i> / Harbour porpoise	2013	GRL			2293	
<i>Globicephala melas</i> / Long-finned pilot whale	2012	GRL			430	
<i>Orcinus orca</i> / Killer whale	2012	GRL			44	

<i>Delphinidae</i> / Dolphins nei	2012	GRL			180
<i>Phocoena phocoena</i> / Harbour porpoise	2012	GRL			2385
<i>Globicephala melas</i> / Long-finned pilot whale	2011	GRL			274
<i>Orcinus orca</i> / Killer whale	2011	GRL			39
<i>Delphinidae</i> / Dolphins nei	2011	GRL			237
<i>Phocoena phocoena</i> / Harbour porpoise	2011	GRL			2828

* *technical quotas for 5 years: beluga 100, narwhal 485*

1) *Kvoten var på 64, fratrukket overfangst på 12 dyr fra sidste kvoteår, i alt 52*

2) *Kvoten var på 64, efter politisk beslutning blev der givet ekstra kvote på 10 dyr, i alt 62 inkl. fratrukket fra sidste kvoteår*

3) *Kvoten var på 61, der skal fratrukkes overfangst på 1 dyr fra sidste kvoteår, i alt 60*

1 minke whale, male, 7.8 meter, wounded/sick was permitted euthanized in Aasiaat. Not included in catch data above, October 2013.

Table 3. Reported catches of pinnipeds in Greenland in 2011-2013 as requested by NAMMCO Scientific Secretary. Harbour seals have been totally protected since 2010. The allocation between East and West Greenland is geographical catches, rather than by stock.

Species (latin name)	Year or Season	Stock Area	Catch (pups)			Catch (group 1+ or adults)			Catch Total incl. Struck & Loss	Quota if applicable
			Male	Female	Total incl. Unkn.	Male	Female	Total incl. Unkn.		
<i>Phoca groenlandica</i> / Harp seal	2011	West GRL							63,886	No quota
<i>Phoca groenlandica</i> / Harp seal	2011	East GRL							10,491	No quota
<i>Phoca vitulina</i> / Harbour seal	2011	West GRL							69	Banned hunting since 2010
<i>Phoca vitulina</i> / Harbour seal	2011	East GRL							10	Banned hunting since 2010
<i>Phoca hispida</i> / Ringed seal	2011	West GRL							53,487	No quota
<i>Phoca hispida</i> / Ringed seal	2011	East GRL							8,792	No quota
<i>Erignathus barbatus</i> / Bearded seal	2011	West GRL							990	No quota
<i>Erignathus barbatus</i> / Bearded seal	2011	East GRL							312	No quota
<i>Cystophora cristata</i> / Hooded seal	2011	West GRL							1,383	No quota
<i>Cystophora cristata</i> / Hooded seal	2011	East GRL							686	No quota

<i>Phoca groenlandica</i> / Harp seal	2012	West GRL							53,016	No quota
<i>Phoca groenlandica</i> / Harp seal	2012	East GRL							7,681	No quota
<i>Phoca vitulina</i> / Harbour seal	2012	West GRL							-	No quota
<i>Phoca vitulina</i> / Harbour seal	2012	East GRL							-	No quota
<i>Phoca hispida</i> / Ringed seal	2012	West GRL							51,912	No quota
<i>Phoca hispida</i> / Ringed seal	2012	East GRL							8,695	No quota
<i>Erignathus barbatus</i> / Bearded seal	2012	West GRL							879	No quota
<i>Erignathus barbatus</i> / Bearded seal	2012	East GRL							221	No quota
<i>Cystophora cristata</i> / Hooded seal	2012	West GRL							900	No quota
<i>Cystophora cristata</i> / Hooded seal	2012	East GRL							807	No quota
<i>Phoca groenlandica</i> / Harp seal	2013	West GRL							48,093	No quota
<i>Phoca groenlandica</i> / Harp seal	2013	East GRL							10,315	No quota
<i>Phoca vitulina</i> / Harbour seal	2013	West GRL							-	No quota

<i>Phoca vitulina</i> / Harbour seal	2013	East GRL							-	No quota
<i>Phoca hispida</i> / Ringed seal	2013	West GRL							35,180	No quota
<i>Phoca hispida</i> / Ringed seal	2013	East GRL							8747	No quota
<i>Erignathus</i> <i>barbatus</i> / Bearded seal	2013	West GRL							610	No quota
<i>Erignathus</i> <i>barbatus</i> / Bearded seal	2013	East GRL							186	No quota
<i>Cystophora</i> <i>cristata</i> / Hooded seal	2013	West GRL							657	No quota
<i>Cystophora</i> <i>cristata</i> / Hooded seal	2013	East GRL							561	No quota

Note: catch reporting still ongoing for 2012 and 2013

VII APPENDIX 2 - BY-CATCH DATA

In Greenland, trawling fisheries of shrimp and Greenland halibut operate with sorting grids, so by-catch of marine mammals are nonexistent. There is a new mackerel fishery, which has the potential of resulting in by-catch of marine mammals, however no marine mammal by-catch was reported from this fishery in 2013.

Seals and small cetaceans, particularly harbor porpoise could potentially entangle in coastal pond and gill nets. However, harvesting these animals with nets is not illegal and by-catch, if any, is probably used for subsistence and reported as catch. For pinnipeds the use of netting is legal and regulated by an executive order.

By far, the best known incidence of by-catch in Greenland relate to large whales, particularly humpback whales but also bowhead whales entangled in pond nets, gill nets and crab pot lines.

Reported by-catch of cetaceans is summarized in Table 4. There were no reports of by-catch of protected pinnipeds in 2013.

Data on by-catch is administered by the Ministry of Fisheries, Hunting and Agriculture.

Table 4. Reported by-catch of cetaceans in 2013 in Greenland. There were no reports of by-catch of protected pinnipeds.**By-catch reporting for CETACEANS**

Species (latin name)	Year or Season	Stock Area / Region or Management Area	By-Catch			Comments on circumstances if applicable		
			Male	Female	Total incl. Unkn.	Fishery type	Live - release	Other details
Bowhead whale	June 2013	Aasiaat, West GRL			1			1 bowhead whale near Aasiaat (no length given) observed entangled in fishing gear for crabs, June 2013. Not found again.
Humpback whale		Qeqertarsuaq, West GRL		1				1 humpback whale female near Qeqertarsuaq (10.64 meter) entangled in fishing gear for crabs was permitted euthanized, June 2013.

By-catch reporting for PINNIPEDS

Species (latin name)	Year or Season	Stock Area	By-Catch			Comments on circumstances if applicable		
			Male	Female	Total incl. Unkn.	Fishery type	Live - release	Other details
Not treated in the reporting-system as by-catch. Netting allowed in GRL.								

VIII APPENDIX 3 - STRANDINGS

The combination of a very large coastline, sparse human population and steep, rocky shoreline with very few beaches makes it very difficult to monitor strandings in Greenland. Most reports consist of observations of floating carcasses, usually sperm whale but also sometimes bowhead whales. Data is kept by the Ministry of Fisheries, Hunting and Agriculture. Data for 2013 is shown in Table 5.

Table 5. Reported strandings of cetaceans in 2013 in Greenland. There were no reports of strandings of pinnipeds in 2013

Species	Year or Date	Stock Area / Region	Strandings				
			Male	Female	Total incl. Unkn.	Beach-cast	Other details
Sperm whale	June 2013	Kangeq-Nuuk, West GRL			1		No post mortem
Sperm whale	October 2013	Baffin Bay	1		1		Left in water. Immature male individual. No observation of well developed teeth in lower jaw. Protruding penis. No signs of ship strike or shark bites. 800 cm
Sperm whale	May 2013	Fyllas Banke	1		1		Left in water
Sperm whale	May 2013	Qeqertarsuaq, Sermersooq, West GRL			1		No post mortem
Sperm whale	May 2013	Attamik, West GRL			1		No post mortem

Strandings reporting for PINNIPEDS

Species (latin name)	Year or Season	Stock Area	Strandings				Comments on circumstances if applicable			
			Male	Female	Total incl. Unkn.	Fishery-related	Live	Beach-cast	Other details	
No information received on strandings for 2013										