

Appendix B

Boat Report Forms for the 2009 Cross Island Subsistence Whaling Season

Much of the information contained in the following forms is summarized in the “Boat Trip” Excel file included on the CD-ROM and the “Supplement” Word file (narrative summaries of 2009 Cross Island boat accounts)

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Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/27/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	To Cross Island w/
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	To Cross Island w/
Aqarguin (IAN)	AL	22	Yamaha 225	To Cross Island w/
Ipalook 1 (IP1)	FG	18	Honda 150	To Cross Island w/
Ipalook 2 (IP2)	FG	21	Yamaha 200	To Cross Island w/
Napageak (NAP)	FG	21	Honda 225	To Cross Island w/
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	To Cross Island w/
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	To Cross Island w/
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	In Nuiqsut making preparations
Taalak 1 (TAL1)	AL	24	Yamaha 250	In Nuiqsut making preparations
Taalak 2 (TAL2)	AL	20	Yamaha 115	In Nuiqsut making preparations

Whaling today? No If not, why not? Most boats travel to Cross Island, others still in Nuiqsut.

Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Yes	Weather notes:	Overcast and gray in Nuiqsut
Wind Direction:	NA	Wind speed and other notes:	10 to 17 mph, BP 30.0 and falling
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	Some chop in places
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? NA GPS Track Name:

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/28/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Onshore, preparing for whaling
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Onshore, preparing for whaling
Aqarguin (IAN)	AL	22	Yamaha 225	Onshore, preparing for whaling
Ipalook 1 (IP1)	FG	18	Honda 150	Dry Dock
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Onshore, preparing for whaling
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore, preparing for whaling
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	To Cross Island w/
Taalak 1 (TAL1)	AL	24	Yamaha 250	To Cross Island w/
Taalak 2 (TAL2)	AL	20	Yamaha 115	To Cross Island w/

Whaling today? Yes **If not, why not?** Only two boats went scouting – see Boat Report Forms for IP2 and NAP boats. The other boats already at Cross island stayed onshore making preparations for whaling. IP2 required some minor maintenance or repair. NUK3, TAL1, and TAL2 traveled from Nuiqsut to Cross Island. The *Arctic Wolf* brought mattresses and food supplies to Cross Island from West Dock.

Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Yes	Weather notes:	Windy in the morning, calm by about noon but very foggy
Wind Direction:	E to N	Wind speed and other notes:	25 mph @ 12:00am, 5 mph @ noon, increased again
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	Wind shifted from E to N
Other pertinent notes:	BP 29.78 and falling to 29.73, then rising		

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

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GPS track? NA GPS Track Name:

If not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/28/09 Crew: various GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/5

Whaling today? Yes If not, why not?

Time departed: 1548 Time returned: 1600
 Trip time of 0 hours 12 minutes, roundtrip of ? miles, furthest point from Cross Island of ? miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	S or SW to investigate a possible whale sighting
Time spent actively scouting/# people looking:	5/5
Time spent in travel/tow/assistance to other boats/on "break":	0:12
Notes: The Ipalook2 boat went out briefly, and it went out only because someone saw what could have been a whale very close to Cross Island. They went out to see if this was a whale and returned almost immediately (a trip of 12 to 15 minutes) once they determined that the dark spot they had seen was a low-lying island appearing and disappearing in the waves and swells (<i>anatuq</i>).	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Yes	Weather notes:	Windy in the morning, calm by about noon but very foggy
Wind Direction:	E to N	Wind speed and other notes:	25 mph @ 12:00am, 5 mph @ noon, increased again
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	moderate	Other Notes:	Wind shifted from E to N
Other pertinent notes:	BP 29.78 and falling to 29.73, then rising		

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? No GPS Track Name: IP2_082809
 If not, why not? Boat went out without a GPS (or failed to turn it on)

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/28/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	Scouting w/5

Whaling today? Yes If not, why not?

Time departed: 1353

Time returned: 1804

Trip time of **4 hours 11 minutes, roundtrip of 46.4 miles, furthest point from Cross Island of 12.7 miles**

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nap_082809a	N70.58 W147.78	1512	Possible scouting area
nap_082809b	N70.6 W147.64	1536	Possible scouting area
nap_082809c	N70.61 W147.56	1557	Possible scouting area
nap_082809d	N70.55 W147.53	1630	Possible scouting area
nap_082809e	N70.53 W147.86	1706	Possible scouting area
nap_082809f	N70.54 W147.9	1711	Possible scouting area
nap_082809g	N70.55 W148	1726	Possible scouting area
nap_082809h	N70.56 W148.05	1736	Possible scouting area
nap_082809i	N70.55 W148.1	1743	Possible scouting area
nap_082809j	N70.52 W148.08	1753	Possible scouting area

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE – most common area where whales have been seen
Time spent actively scouting/# people looking:	5/5
Time spent in travel/tow/assistance to other boats/on "break":	4:11 on trip, mostly at relatively high speed
Notes: The NAP boat made the only extended scouting trip for this day. They indicated that waves and swells were moderate, and visibility was acceptable – although there was still quite a bit of fog. Their trip was mainly to the east of Cross Island, but also included a short search west of the island, and was conducted primarily at relatively high cruising speeds. There were about ten short periods of low speed when they were looking at potentially interesting areas that had drawn their attention for one reason or another (nap_082809a-j, all derived from a close examination of the GPS track). The NAP crew did not report seeing any whales, however, and did not draw any special attention to any of these areas when talking about their track.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Yes	Weather notes:	Windy in the morning, calm by about noon but very foggy
Wind Direction:	E to N	Wind speed and other notes:	25 mph @ 12:00am, 5 mph @ noon, increased again
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	moderate	Other Notes:	Wind shifted from E to N
Other pertinent notes:	BP 29.78 and falling to 29.73, then rising		

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No

No

If yes, describe below

GPS track? Yes GPS Track Name: NAP_082809

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/29/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Onshore finalizing whaling preparations
Aqarguin (IAN)	AL	22	Yamaha 225	Onshore finalizing whaling preparations
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Onshore finalizing whaling preparations
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore finalizing whaling preparations
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Onshore finalizing whaling preparations
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore finalizing whaling preparations
Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore finalizing whaling preparations

Whaling today?	No	If not, why not?	Preparing for whaling and working on cabins
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Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Rain	Weather notes:	Rain was late in the day. Boats came in when wind increased
Wind Direction:	shifted	Wind speed and other notes:	2-17 mph, BP 29.8 and rising to 29.88, then falling
% Ice Coverage:	0	Ice Type: NA	Other Notes: Wind started as NNW, shifted to W, then S, ended E
Wave Height:	2' w/swells	Other notes on sea conditions:	Got calmer, then wind came up again

Other pertinent notes: Seas were reported as 2' with swells when boats went out in the morning. Winds calmed in the afternoon but swells remained. Wind shifted and increased later in the day and the boats came in when seas got rougher. By 2100 there was heavy rain and strong wind at Cross Island.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

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GPS track? NA GPS Track Name:

If not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/29/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/4

Whaling today? Yes If not, why not? Time departed: 0756Time returned: 1816Trip time of 10 hours 20 minutes, roundtrip of 88.8 miles, furthest point from Cross Island of 27.8 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO2_082909A	N70.56 W147.98	829	Reported "whale smell"
BO2_082909B	N70.56 W147.97	831	Blow 4.5 miles from Cross Island
bo2_082909C	N70.59 W147.93	854	Reported "whale smell"
BO2_082909D	N70.62 W147.87	915	Blow 8.5 miles N of Cross Island
bo2_082909E	N70.5 W147.21	1446	Dead Krill in current near Narwhal Island

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	4/4
Time spent in travel/tow/assistance to other boats/on "break":	10:20
<p>Notes: All four boats left within a space of 40 minutes (7:17 to 7:56 am) and coordinated their activities for the entire period they were out, and all returned to Cross Island for the day within a period of 25 minutes (17:56 to 18:21). They all headed NE from Cross Island, in the direction where most whales have been landed in the past. Two blows were reported, both by the BO2 boat. One blow was about 4.5 miles from Cross Island (bo2_082909b) and was bracketed by two points where the BO2 boats reported a "whale smell" (bo2_082909a, bo2_082909c). This blow was seen only once and no other details were provided. The second blow was sighted by the BO2 boat at 9:15 (BO2_082909d). This was about 8.5 miles North of Cross Island. The other boats immediately changed course to go towards the BO2 boat to help follow this whale, but this whale/blow was not seen again and by 9:35 or so all boats turned to the north and started to look in that direction. The BO2 boat crew indicated that this was a big blow (maybe 8-feet), and hence a big whale, but they could not tell what direction it was going. Because of the size of the blow, they thought it was a different whale than the first one. BO2 also reported seeing lots of seals, whalebirds, and dead krill in the current near Narwhal Island (bo2_082909e).</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Rain	Weather notes:	Rain was late in the day. Boats came in when wind increased
Wind Direction:	shifted	Wind speed and other notes:	2-17 mph, BP 29.8 and rising to 29.88, then falling
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	2' w/swells	Other Notes:	Wind started as NNW, shifted to W, then S, ended E
		Other notes on sea conditions:	Got calmer, then wind came up again

Other pertinent notes: Seas were reported as 2' with swells when boats went out in the morning. Winds calmed in the afternoon but swells remained. Wind shifted and increased later in the day and the boats came in when seas got rougher. By 2100 there was heavy rain and strong wind at Cross Island.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: BO2_082909If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/29/09

Crew: Ipalook

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/2

Whaling today? Yes If not, why not?

Time departed: 0722

Time returned: 1814

Trip time of **10 hours 52 minutes**, roundtrip of **100 miles**, furthest point from Cross Island of **27.2 miles**

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip1_082908A	N70.62 W147.63	834	Whalebirds
ip1_082908B	N70.65 W147.31	1321	Whalebirds

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	2/2
Time spent in travel/tow/assistance to other boats/on "break":	10:52
Notes: All four boats left within a space of 40 minutes (7:17 to 7:56 am) and coordinated their activities for the entire period they were out, and all returned to Cross Island for the day within a period of 25 minutes (17:56 to 18:21). They all headed NE from Cross Island, in the direction where most whales have been landed in the past. One the BO2 boat saw whales, and IP1 went to look for them but did not see them. All boats reported seeing lots of whalebirds, seals, and oogrucks. Many such points could have been located and IP1 pointed out only a few of these for whalebirds at ip1_082909a and ip1_082909b	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Rain	Weather notes:	Rain was late in the day. Boats came in when wind increased
Wind Direction:	shifted	Wind speed and other notes:	2-17 mph, BP 29.8 and rising to 29.88, then falling
% Ice Coverage:	0	Ice Type: NA	Other Notes: Wind started as NNW, shifted to W, then S, ended E
Wave Height:	2' w/swells	Other notes on sea conditions:	Got calmer, then wind came up again
Other pertinent notes: Seas were reported as 2' with swells when boats went out in the morning. Winds calmed in the afternoon but swells remained. Wind shifted and increased later in the day and the boats came in when seas got rougher. By 2100 there was heavy rain and strong wind at Cross Island.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No

No

If yes, describe below

GPS track? Yes GPS Track Name: IP1_082909

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/29/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3

Whaling today? Yes If not, why not?

Time departed: 0726 Time returned: 1821
 Trip time of **10 hours 55 minutes**, roundtrip of **119 miles**, furthest point from Cross Island of **26.2 miles**

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip2_082909A	N70.61 W147.66	834	Whalebirds

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/3
Time spent in travel/tow/assistance to other boats/on "break":	10:55
Notes: All four boats left within a space of 40 minutes (7:17 to 7:56 am) and coordinated their activities for the entire period they were out, and all returned to Cross Island for the day within a period of 25 minutes (17:56 to 18:21). They all headed NE from Cross Island, in the direction where most whales have been landed in the past. One the BO2 boat saw whales, and IP2 went to look for them but did not see them. All boats reported seeing lots of whalebirds, seals, and oogrucks. Many such points could have been located and IP1 pointed out only whalebirds at ip2_082909a.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Rain	Weather notes:	Rain was late in the day. Boats came in when wind increased
Wind Direction:	shifted	Wind speed and other notes:	2-17 mph, BP 29.8 and rising to 29.88, then falling
% Ice Coverage:	0	Ice Type: NA	Other Notes: Wind started as NNW, shifted to W, then S, ended E
Wave Height:	2' w/swells	Other notes on sea conditions:	Got calmer, then wind came up again
Other pertinent notes: Seas were reported as 2' with swells when boats went out in the morning. Winds calmed in the afternoon but swells remained. Wind shifted and increased later in the day and the boats came in when seas got rougher. By 2100 there was heavy rain and strong wind at Cross Island.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: IP2_082909
 If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/29/09Crew: IpalookGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	Scouting w/5

Whaling today?	Yes	If not, why not?	
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Time departed: 0717/1420Time returned: 1404/1756

First trip time of 6 hours 47 minutes, roundtrip of 77.4 miles, furthest point from Cross Island of 21.6 miles

2nd trip time of 3 hours 36 minutes, roundtrip of 72.4 miles, furthest point from Cross Island of 26.2 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nap_082909A	N70.61 W147.3	1310	Large bearded seal
nap_082909B	N70.48 W147.36	1520	Dead Krill in current near Narwhal Island

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	5/5
Time spent in travel/tow/assistance to other boats/on "break":	10:23
<p>Notes: All four boats left within a space of 40 minutes (7:17 to 7:56 am) and coordinated their activities for the entire period they were out, and all returned to Cross Island for the day within a period of 25 minutes (17:56 to 18:21). They all headed NE from Cross Island, in the direction where most whales have been landed in the past. One the BO2 boat saw whales, and NAP went to look for them but did not see them. All boats reported seeing lots of whalebirds, seals, and oogruks. Many such points could have been located and NAP pointed out only a few of these for a big oogruk at nap_082909a; and lots of seals, whalebirds, and dead krill in the current near Narwhal Island (nap_082909b). NAP made two trips on the day, returning to Cross Island to refuel, and spent more time at high speed on the second trip. Although the NAP boat returned to Cross Island under its own power, a critical part of the motor was broken and the boat could not go scouting for the remainder of the season (a replacement part was not readily available).</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Rain	Weather notes:	Rain was late in the day. Boats came in when wind increased
Wind Direction:	shifted	Wind speed and other notes:	2-17 mph, BP 29.8 and rising to 29.88, then falling
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	2' w/swells	Other Notes:	Wind started as NNW, shifted to W, then S, ended E
<p>Other pertinent notes: Seas were reported as 2' with swells when boats went out in the morning. Winds calmed in the afternoon but swells remained. Wind shifted and increased later in the day and the boats came in when seas got rougher. By 2100 there was heavy rain and strong wind at Cross Island.</p>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

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GPS track? Yes GPS Track Name: NAP_082909a, NAP_082909bIf not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/30/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Onshore - weather
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Onshore - weather
Aqarguin (IAN)	AL	22	Yamaha 225	Onshore - weather
Ipalook 1 (IP1)	FG	18	Honda 150	Onshore - weather
Ipalook 2 (IP2)	FG	21	Yamaha 200	Onshore - weather
Napageak (NAP)	FG	21	Honda 225	Onshore - weather
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Onshore - weather
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore - weather
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Onshore - weather
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore - weather
Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore - weather

Whaling today? No If not, why not? Weather – island chores and work on cabins

Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation): NA

Time spent actively scouting/# people looking: NA

Time spent in travel/tow/assistance to other boats/on "break": NA

Notes:

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	rain	Weather notes:	
Wind Direction:	SE to N	Wind speed and other notes:	5 to 35 mph, BP 29.5 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	
Other pertinent notes: Wind rose from 5 mph to 35 mph, decreased to 5 mph, and then started to increase again to More than 30 mph.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No

No

If yes, describe below

GPS track? NA GPS Track Name:

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 08/31/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Onshore - weather
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Onshore - weather
Aqarguin (IAN)	AL	22	Yamaha 225	Onshore - weather
Ipalook 1 (IP1)	FG	18	Honda 150	Onshore - weather
Ipalook 2 (IP2)	FG	21	Yamaha 200	Onshore - weather
Napageak (NAP)	FG	21	Honda 225	Onshore - weather
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Onshore - weather
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore - weather
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Onshore - weather
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore - weather
Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore - weather

Whaling today? No If not, why not? Weather – island chores and work on cabins

Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation): NA
 Time spent actively scouting/# people looking: NA
 Time spent in travel/tow/assistance to other boats/on "break": NA
 Notes:

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Rain	Weather notes:	Windy all day, rain late in the day
Wind Direction:	ESE	Wind speed and other notes:	40 to 15 mph, BP 29.85 and falling
% Ice Coverage:		Ice Type:	NA
Wave Height:	NA	Other Notes:	NA
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? NA GPS Track Name:

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09 Crew: various GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	Onshore – disabled
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore – waiting for crew members

Whaling today? No Yes If not, why not? NAP disabled, NUK2 waiting for more crew members

Time departed: NA Time returned: NA

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	<u>No</u>	Weather notes:	
Wind Direction:	<u>SSE/SW</u>	Wind speed and other notes:	<u>2 to 13 mph, BP 29.35 and rising</u>
% Ice Coverage:	<u>0</u>	Ice Type:	<u>NA</u>
Wave Height:	<u>5'-0</u>	Other notes on sea conditions:	<u>NA</u>
Other pertinent notes: <u>When boats went out wind was higher and seas "sort of rough" (5'), but calmed down after lunch and "real calm" ("like glass") about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.</u>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No Yes If yes, describe below

GPS track? NA GPS Track Name: _____
 If not, why not? _____

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09 Crew: Oyagak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/4, then w/3

Whaling today? Yes If not, why not?

Time departed: 0758/1533 Time returned: 1519/1909

Trip time of 7 hours 21 minutes, roundtrip of ? miles, furthest point from Cross Island of ? miles

Trip time of 3 hours 36 minutes, roundtrip of ? miles, furthest point from Cross Island of ? miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	10:57, 3/10:57, 1/7:21
Time spent in travel/tow/assistance to other boats/on "break":	

Notes:
 The BO1 boat started by following the BO2 boat (leaving the island about 17 minutes later). However, one of their crew members became ill and they returned to the island to drop him off. They reported seeing a whale about 12 miles from Cross Island, but did not indicate a more exact position. They went out scouting a second time, heading north for about 8 miles and then E or NE. They reached about 14.7 miles from Cross island and then started back to Cross Island in a fairly straight line. Up to that point they had "zig-zagged in order to search a wider path" since the whales were hard to spot and they could not see any blows. They turned back top Cross Island once it started to get windy. On the way back to Cross Island they looked for whales but saw none. They had to slow down while returning to Cross Island because of the size of the swells and the characteristics of the boat.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA Other Notes:
Wave Height:	5'-0	Other notes on sea conditions:	Got calmer, then wind came up again
Other pertinent notes: When boats went out wind was higher and seas "sort of rough" (5'), but calmed down after lunch and "real calm" ("like glass") about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? No GPS Track Name: BO1_090109a, BO1_090109b
 If not, why not? Tracking feature of GPS was turned "off"

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/4

Whaling today? Yes If not, why not?

Time departed: 0741Time returned: 1703

Trip time of 9 hours 22 minutes, roundtrip of 61.1 miles, furthest point from Cross Island of 17.8 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO2_090109A	N70.52 W148	753	Whale 1.5 miles from Cross Island
bo2_090109B	N70.55 W147.3	1138	Turned towards IP1 in response to IP1_090109k
BO2_090109C	N70.59 W147.41	1150	Whale seen in front of them
BO2_090109D	N70.6 W147.45	1159	Position where BO2_090109c whale was last seen

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	9:22/4
Time spent in travel/tow/assistance to other boats/on "break":	

Notes:

The BO2 boat was the first boat out and saw a whale about 1.5 miles from Cross Island (BO2_090109a) at about 7:52am. They saw this whale only once. When they saw it the whale was just floating in the water and they thought that it may have been sleeping. As they approached it the whale just went down and disappeared. It did not dive and they never saw a blow, and they could not tell what direction it may have gone. This was the general pattern for the day – whalers would see a whale (or something black) and would approach it only to have it “go down” or disappear. They would not see a blow, and would not see the whale or object again. After seeing this whale, the BO2 boat headed east, following currents in places, until IP1 saw something (IP1_090109k) at about 11:37am to the NW of BO2 so that BO2 turned to the NW at point bo2_090109b. The only other whale they saw was at about 11:50am (BO2_090109c), while on their way towards the IP1 boat, when they saw a whale in front of them and reported that they were going to it. It went down and they never saw it again. BO2 marked a point at BO2_090109d that may represent where they were looking for this whale, as they were at very slow speed. These were the only whales the BO2 boat saw this day, and they saw no blows. The only other points of interest they noted about their tracks were that subsequent direction changes were indicative of reported sightings of whales by other boats that they responded to, but never saw themselves.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA Other Notes:
Wave Height:	5'-0	Other notes on sea conditions:	Got calmer, then wind came up again

Other pertinent notes: When boats went out wind was higher and seas “sort of rough” (5 ‘), but calmed down after lunch and “real calm” (“like glass”) about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: BO2_090109If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09 Crew: Aqarguin GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5

Whaling today? Yes If not, why not?

Time departed: 0813 Time returned: 1904
 Trip time of 10 hours 51 minutes, roundtrip of ? miles, furthest point from Cross Island of ? miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ian_090109A	N70.56 W147.71	908	Whale about 8 miles from Cross Island - seen only once

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	9:22/4
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: Details of the IAN track are not available, but it is evident that the IAN boat saw a whale about 8 miles from Cross Island and that other boats changed course to help look for it. This sighting has been very approximately located, taking into account the information from various crews and an approximate time of 9:08am, as ian_090109a. This is only an approximate location, probably located within 1 mile of the actual sighting, but the sighting was important as the second whale sighted by the whalers on 9/01. As with other whales seen on 9/01, this whale was seen only once and "had no blow."	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	5'-0	Other Notes:	
Other pertinent notes: When boats went out wind was higher and seas "sort of rough" (5'), but calmed down after lunch and "real calm" ("like glass") about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? No GPS Track Name: IAN_090109

If not, why not? refusal

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09

Crew: Ipalook

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/3, then w/3
Whaling today?		Yes	If not, why not?	

Time departed: 0800/0920

Time returned: 0920/1917

Trip time of 1 hour 20 minutes, roundtrip of 19.2 miles, furthest point from Cross Island of 8.2 miles

Trip time of 9 hours 57 minutes, roundtrip of 74.9 miles, furthest point from Cross Island of 20.4 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip1_090109A	N70.58 W147.74	852	IP1 turned back to Cross Island, injured crew member
ip1_090109B	N70.62 W147.7	1026	Searched this area (others had seen whales). No sightings reported
IP1_090109C	N70.57 W147.48	1149	Searched this area (others had seen whales - NUK3 saw 2 whales). IP boats did not see these whales.
IP1_090109D	N70.56 W147.45	1441	Coordinates marked for NUK3 resighting of whale. Time NUK3 boat first saw this whale uncertain (mapped as nuk3_090109b).
ip1_090109E	N70.48 W147.33	1419	Two whales "playing around"
IP1_090109F	N70.51 W147.37	1444	Position of IP1 when it turned towards NUK sighting
IP1_090109G	N70.52 W147.39	1446	Position of IP1 – turn to TAL2 or IAN resighting of NUK3 whale
IP1_090109H	N70.55 W147.35	1521	Position of IP1 - turn to NUK3 or IAN sighting of NUK3 whale
ip1_090109I	N70.63 W147.21	1644	current (and the S to other boats because of no sightings?)
ip1_090109J	N70.55 W147.34	1717	current (and the W towards CI)
IP1_090109K	N70.61 W147.56	1137	"Something" sighted

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	
Time spent in travel/tow/assistance to other boats/on "break":	
<p>Notes: Both IP crew boats left Cross Island together, but the IP1 had to return to Cross Island to drop off an injured crew member (bruised ribs from a prior day's activities). IP1 turned around at about 8:52am (ip1_090109a). The IP1 boat headed out again for the area around point ian_090109a and searched that area again. The IP boats used this as an opportunity to join up and both headed north and then west. IP1 reported that they searched the area around ip1_090109b because other whalers had reported seeing whales in that area. IP1 (and IP2) also went and searched for whales in areas reported by other boats (ip1_090109c and ip1_090109d, related to nuk3_090109b), but did not see these whales. All the boats then headed towards Narwhal Island. There IP1 saw two whales playing around – or rather, one that was sort of breaching out of the water vertically while the other was floating on the surface some distance from it (ip1_090109e). They looked in that area for awhile, turned around, and could not see anything, so they turned north towards the reported position of a whale spotted by the NUK boats (IP1_090109f). They never saw this whale. IP1 then turned north towards two whales that TAL2 and NUK3 had seen (IAN_090109g and IAN_090109h) while IP2 went to Narwhal Island, and then north for about 10 miles, and then ENE to join IP1 (and the other boats) in the most NE part of the day's travel. IP1 was following a current for a while (ip1_090109i) and then went to check out the "20 mile current" (ip1_090109j), where they also met up with IP2 and transferred 15 gallons of gas to IP2. IP1 then went towards where NUK3 had spotted a whale but again IP1 did not see it themselves. At this point both the IP boats were low on gas, so they headed back to Cross Island. They indicated that otherwise they may have stayed out longer.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA Other Notes:
Wave Height:	5'-0	Other notes on sea conditions:	Got calmer, then wind came up again
<p>Other pertinent notes: When boats went out wind was higher and seas "sort of rough" (5'), but calmed down after lunch and "real calm" ("like glass") about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.</p>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: IP1_090109a, IP1_090109b

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3

Whaling today? Yes If not, why not?

Time departed: 0802 Time returned: 1914
 Trip time of 11 hour 12 minutes, roundtrip of 119 miles, furthest point from Cross Island of 21.6 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IP2_090109A	N70.4 W147.53	1438	Marked leaving Narwhal Island after a break onshore of about 11 minutes
IP2_090109B	N70.56 W147.61	NA	Area of many whalebirds, few sea mammals - point not associated with tracks as such

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	
Time spent in travel/tow/assistance to other boats/on "break":	
<p>Notes: Both IP crew boats left Cross Island together, but the IP1 had to return to Cross Island to drop off an injured crew member (bruised ribs from a prior day's activities). IP1 turned around at about 8:52am (ip1_090109a). The IP1 boat headed out again for the area around point ian_090109a and searched that area again. The IP boats used this as an opportunity to join up and both headed north and then west. The track of IP2 is then essentially the same as for IP1, except that IP2 went further south than IP1 from waypoint ip1_090109e and the crew went ashore Narwhal Island briefly. Waypoint IP2_090109a was marked when they left Narwhal Island (likely responding to the resighting of the whale first seen by NUK3). This crew also located a point where they say there were many whalebirds, but few sea mammals. They did not associate this with any specific time.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA Other Notes:
Wave Height:	5'-0	Other notes on sea conditions:	Got calmer, then wind came up again
<p>Other pertinent notes: When boats went out wind was higher and seas "sort of rough" (5'), but calmed down after lunch and "real calm" ("like glass") about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.</p>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: IP2_090109

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09

Crew: Ruth Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/3

Whaling today? Yes If not, why not?

Time departed: 0827

Time returned: 1946

Trip time of 11 hour 19 minutes, roundtrip of ? miles, furthest point from Cross Island of ? miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk3_090109A	N70.63 W147.64	1025	Whale sighting
nuk3_090109B	N70.58 W147.44	NA	Whale sighting (two whales) - time uncertain, only roughly located by NUK co-captian
nuk3_090109e	N70.58 W147.28	1702	Blow seen towards Narwhal Island

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Probably north and then east
Time spent actively scouting/# people looking:	3/11:19
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: No track was collected from NUK1, so most of the discussion of the NUK boats activities was based on the track for NUK3. Early in the day the two boats were not traveling together, however, as the whalers wanted to cover more area since they were having such a problem resighting whales when they resurfaced (and in fact often were not able to do so). NUK3 reported seeing "maybe 3 or 4 whales" (nuk3_090109a and nuk3_090109b) and then "a blow towards Narwhal Island" (nuk3_090109e) and NUK1 reported seeing the two whales sighted in the east (located on NUK3 GPS track since NUK1 GPS track not available - nuk3_090109b). They only located these sightings in a very general way, and were more interested in discussing two more general, interrelated, and vitally important issues – the strange behavior of whales so far during the 2009 whaling season and the problem of tug and barge traffic interfering with fall subsistence whaling activities.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA Other Notes:
Wave Height:	5'-0	Other notes on sea conditions:	Got calmer, then wind came up again

Other pertinent notes: When boats went out wind was higher and seas "sort of rough" (5'), but calmed down after lunch and "real calm" ("like glass") about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? No GPS Track Name: NUK1_090109

If not, why not? Refusal

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09

Crew: Ruth Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/3

Whaling today? Yes If not, why not?

Time departed: 0827

Time returned: 1945

Trip time of 11 hour 18 minutes, roundtrip of 77.9 miles, furthest point from Cross Island of 18.3 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk3_090109A	N70.63 W147.64	1025	Whale sighting
nuk3_090109B	N70.58 W147.44	NA	Whale sighting (two whales) - time uncertain, only roughly located by NUK co-captian
nuk3_090109c	N70.56 W147.4	1144	Probable location of NUK3 when informed of NUK1 sighting of 2 whales - went at high speed to the north and then east
nuk3_090109d	N70.57 W147.47	1151	Position where NUK3 slowed to search for 2 whales (and where IP boats joined them)
nuk3_090109e	N70.58 W147.28	1702	Blow seen towards Narwhal Island

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Probably north and then east
Time spent actively scouting/# people looking:	3/11:19
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: No track was collected from NUK1, so most of the discussion of the NUK boats activities was based on the track for NUK3. Early in the day the two boats were not traveling together, however, as the whalers wanted to cover more area since they were having such a problem resighting whales when they resurfaced (and in fact often were not able to do so). NUK3 reported seeing "maybe 3 or 4 whales" (nuk3_090109a and nuk3_090109b) and then "a blow towards Narwhal Island" (nuk3_090109e) and NUK1 reported seeing the two whales sighted in the east (located on NUK3 GPS track since NUK1 GPS track not available - nuk3_090109b). They only located these sightings in a very general way, and were more interested in discussing two more general, interrelated, and vitally important issues – the strange behavior of whales so far during the 2009 whaling season and the problem of tug and barge traffic interfering with fall subsistence whaling activities.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	5'-0	Other Notes:	
Other pertinent notes: When boats went out wind was higher and seas "sort of rough" (5'), but calmed down after lunch and "real calm" ("like glass") about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: NUK3_090109

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 1 (TAL1)	AL	24	Yamaha 250	Scouting w/4
Whaling today?		Yes	If not, why not?	

Time departed: 0828 **Time returned: 1927**
Trip time of 10 hour 59 minutes, roundtrip of 89.6 miles, furthest point from Cross Island of 14.2 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal1_090109A	N70.55 W147.99	854	streak of whale food
tal1_090109B	N70.58 W147.97	908	streak of whale food
tal1_090109C	N70.57 W147.7	952	course change in response to reported sighting
tal1_090109D	N70.57 W147.74	1011	course change in response to reported sighting
tal1_090109E	N70.64 W147.64	1052	course change in response to reported sighting
tal1_090109F	N70.66 W147.8	1138	course change in response to reported sighting
tal1_090109G	N70.58 W147.5	1212	course change in response to reported sighting
tal1_090109H	N70.65 W147.9	1432	course change in response to reported sighting
tal1_090109I	N70.58 W147.43	1529	course change in response to reported sighting
tal1_090109J	N70.62 W148	1822	possible 2 blows in the direction of Northstar - not confirmed
tal1_090109K	N70.6 W148.13	1841	Turn towards Cross Island at scouting speed

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	North and then east
Time spent actively scouting/# people looking:	3/10:59
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: The Taalak crew boats spent the entire day in close proximity to each other. The captain reported that they did not see anything all day – but he modified this with three “located” waypoints and a general statement. Soon after leaving Cross Island in the morning, about 4 miles north, they encountered a “streak” of whale food that extended to the NE. They slowed down and followed this (tal1_090109a and tal1_090109b) but saw no whales. On the way back to Cross Island, the Taalak boats were further north and west than the other boats and were headed in the general direction of Northstar. One of the crew members of TAL1 thought that he saw a couple of blows in the direction of Northstar. TAL1 (but not TAL2) went about 3.4 miles from this reported sighting (tal1_090109j) in the direction of Northstar, but did not see any sign of whales, and so turned and returned to Cross Island. They were still about 15 miles from Northstar when they turned for Cross Island. The captain reiterated that he himself did not see any signs of whales all day, but that every turn in his boat’s track except the last represented a reported sighting by another boat that he had responded to (tal1_090109c-i). The TAL2 boat also saw few or no whales.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA Other Notes:
Wave Height:	5'-0	Other notes on sea conditions: Got calmer, then wind came up again	
Other pertinent notes: When boats went out wind was higher and seas “sort of rough” (5 ‘), but calmed down after lunch and “real calm” (“like glass”) about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?	No	If yes, describe below
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GPS track? Yes GPS Track Name: TAL1_090109

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/01/09 Crew: Taalak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 2 (TAL2)	AL	20	Yamaha 115	Scouting w/4

Whaling today? Yes If not, why not?

Time departed: 0829 Time returned: 1948
 Trip time of 11 hour 19 minutes, roundtrip of 72.6 miles, furthest point from Cross Island of 15.0 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal2_090109A	N70.6 W147.59	NA	Two whales seen, thought to be the same as NUK3 sightings

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	North and then east
Time spent actively scouting/# people looking:	4/11:19
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: The Taalak crew boats spent the entire day in close proximity to each other. The captain reported that they did not see anything all day – but he modified this with three “located” waypoints and a general statement. Soon after leaving Cross Island in the morning, about 4 miles north, they encountered a “streak” of whale food that extended to the NE. They slowed down and followed this (tal1_090109a and tal1_090109b) but saw no whales. On the way back to Cross Island, the Taalak boats were further north and west than the other boats and were headed in the general direction of Northstar. One of the crew members of TAL1 thought that he saw a couple of blows in the direction of Northstar. TAL1 (but not TAL2) went about 3.4 miles from this reported sighting (tal1_090109j) in the direction of Northstar, but did not see any sign of whales, and so turned and returned to Cross Island. They were still about 15 miles from Northstar when they turned for Cross Island. The captain reiterated that he himself did not see any signs of whales all day, but that every turn in his boat’s track except the last represented a reported sighting by another boat that he had responded to (tal1_090109c-i). The TAL2 boat also saw few or no whales.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	SSE/SW	Wind speed and other notes:	2 to 13 mph, BP 29.35 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	5'-0	Other notes on sea conditions:	Got calmer, then wind came up again
Other pertinent notes: When boats went out wind was higher and seas “sort of rough” (5’), but calmed down after lunch and “real calm” (“like glass”) about 1500. Calmer in the E and S, less calm in W and N. Wind mainly SSE but shifted to the SW and then back to SSE.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: TAL2_090109

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	disabled

Whaling today? No If not, why not? NAP boat disabled

Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	<u>No</u>	Weather notes:	
Wind Direction:	<u>shifting</u>	Wind speed and other notes:	<u>0-10 mph, starts SW but shifts W, SE, E, N</u>
% Ice Coverage:	<u>0</u>	Ice Type:	<u>NA</u>
Wave Height:	<u>NA</u>	Other Notes:	<u>BP 29.65 and rising</u>
Other pertinent notes: <u>Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.</u>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? NA GPS Track Name:

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09 Crew: Oyagak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/3
Whaling today?		Yes	If not, why not?	

Time departed: 0701 Time returned: 2025

Trip time of 13 hours 24 minutes, roundtrip of 128 miles, furthest point from Cross Island of 26.0 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
bo1_090209A	N70.6 W147.49	910	Saw "Something over there" but no sighting reported
bo1_090209B	N70.5 W147.15	1249	Reached area of boats looking for a whale
BO1_090209C	N70.41 W147.05	1413	Point marked looking for BO2 whale seen @ 14:05
BO1_090209D	N70.54 W147.79	1708	Whale about 5.5 miles from CI. Seen @ 1659 but marked 1708
bo1_090209E	N70.5 W147.65	1925	BO1, BO2, TAL2, IP1, and NUK3 chasing a whale
BO2_090209A	N70.4 W147.01	1401	Whale sighting (may have been 14:01)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NNE
Time spent actively scouting/# people looking:	3/13:24
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: Scouting patterns were complicated on 9/02/09, as boats responded to the sightings of others. See the annex For more detailed information than is provided here. BO boats headed NNE and saw "something over there" about 9:10am (bo1_090209a), but did not report this as a whale sighting. The BO1 and BO2 boats stayed at a consistent scouting speed until 12:01 or so and in the process went E and then north to a point about 26.5 miles north of Pole Island. When the IAN boat saw a whale about 10:10am (ian_090209b), all boats except the BO boats went to assist them. Eventually the BO boats joined the other boats (bo1_090209b). They proceeded south to Pole Island and then north with the other boats. When IAN reported the ian_090209d sighting (2:05pm), BO2 reported sighting a different whale at the same time and gave the coordinates (BO2_090209a). They did not report seeing them again. BO1 was west of the BO2 boat and turned towards them at high speed at 2:05, but slowed to scouting speed still west of them at 2:09, marked a point at 2:13 (BO1_090209c) but did not report this as a whale sighting, and turned north, still at scouting speed. About 4:36 the BO2 boat turned for Cross Island, to refuel and then go to West Dock to pick up a crew member at West Dock. BO1 accompanied them. About 4:59pm BO1 saw a whale about 5.5 miles from Cross Island (marked as BO1_090209d). BO2 was only 2.8 miles from Cross Island, but turned around to help find and chase this whale. All the other boats either eventually joined (NUK1, NUK3, IP2) the BO boats in this general area. At 7:25pm it was reported that two groups of boats were chasing whales – IAN, NUK1, and TAL1 (tal1_090209d) and the BO boats, TAL2, IP1, and NUK3 (bo1_090209e). When one of the boats in the other group threw a harpoon (7:45pm, tal1_090209e), all boats in the "BO whale group" almost immediately changed direction at high speed for a position west of where the harpoon had been thrown. It appears that the bomb did not explode and that the darting gun missed the whale, but all boats continued to concentrate on this whale. They eventually lost it and boats headed back to Cross Island at different times. BO1 and BO2 went back at high speed about 8:08, so that they could then go to West Dock to pick up their crew member.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type:	NA Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	

Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? Yes GPS Track Name: BO1_090209

If not, why not?	
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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/4
Whaling today?		Yes	If not, why not?	

Time departed: 0659Time returned: 2123

Trip time of 14 hours 24 minutes, roundtrip of 130.0 miles, furthest point from Cross Island of 27.1 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
bo1_090209A	N70.6 W147.49	910	Saw "Something over there" but no sighting reported
bo1_090209B	N70.5 W147.15	1249	Reached area of boats looking for a whale
BO1_090209C	N70.41 W147.05	1413	Point marked looking for BO2 whale seen @ 14:05
BO1_090209D	N70.54 W147.79	1708	Whale about 5.5 miles from CI. Seen @ 1659 but marked 1708
bo1_090209E	N70.5 W147.65	1925	BO1, BO2, TAL2, IP1, and NUK3 chasing a whale
BO2_090209A	N70.4 W147.01	1401	Whale sighting (may have been 14:01)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NNE
Time spent actively scouting/# people looking:	4/14:24
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: Scouting patterns were complicated on 9/02/09, as boats responded to the sightings of others. See the annex For more detailed information than is provided here. BO boats headed NNE and saw "something over there" about 9:10am (bo1_090209a), but did not report this as a whale sighting. The BO1 and BO2 boats stayed at a consistent scouting speed until 12:01 or so and in the process went E and then north to a point about 26.5 miles north of Pole Island. When the IAN boat saw a whale about 10:10am (ian_090209b), all boats except the BO boats went to assist them. Eventually the BO boats joined the other boats (bo1_090209b). They proceeded south to Pole Island and then north with the other boats. When IAN reported the ian_090209d sighting (2:05pm), BO2 reported sighting a different whale at the same time and gave the coordinates (BO2_090209a). They did not report seeing them again. BO1 was west of the BO2 boat and turned towards them at high speed at 2:05, but slowed to scouting speed still west of them at 2:09, marked a point at 2:13 (BO1_090209c) but did not report this as a whale sighting, and turned north, still at scouting speed. About 4:36 the BO2 boat turned for Cross Island, to refuel and then go to West Dock to pick up a crew member at West Dock. BO1 accompanied them. About 4:59pm BO1 saw a whale about 5.5 miles from Cross Island (marked as BO1_090209d). BO2 was only 2.8 miles from Cross Island, but turned around to help find and chase this whale. All the other boats either eventually joined (NUK1, NUK3, IP2) the BO boats in this general area. At 7:25pm it was reported that two groups of boats were chasing whales – IAN, NUK1, and TAL1 (tal1_090209d) and the BO boats, TAL2, IP1, and NUK3 (bo1_090209e). When one of the boats in the other group threw a harpoon (7:45pm, tal1_090209e), all boats in the "BO whale group" almost immediately changed direction at high speed for a position west of where the harpoon had been thrown. It appears that the bomb did not explode and that the darting gun missed the whale, but all boats continued to concentrate on this whale. They eventually lost it and boats headed back to Cross Island at different times. BO1 and BO2 went back at high speed about 8:08, so that they could then go to West Dock to pick up their crew member.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	
Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

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GPS track? Yes GPS Track Name: BO2_090209

If not, why not?	
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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09

Crew: Aqarguin

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5 on both trips

Whaling today?	Yes	If not, why not?

Time departed: 0528/1845

Time returned: 1829/2057

First trip time of 13 hours 1 minute, roundtrip of ? miles, furthest point from Cross Island of ? miles

2nd trip time of 2 hours 12 minute, roundtrip of ? miles, furthest point from Cross Island of ? miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ian_090209A	N70.58 W147.82	901	Whale
ian_090209B	N70.64 W147.42	1010	Whale
ian_090209C	N70.57 W147.39	1040	Whale
ian_090209D	N70.45 W147.14	1405	Whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	5/115:13
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: Scouting patterns were complicated on 9/02/09, as boats responded to the sightings of others. See the annex For more detailed information than is provided here. Unfortunately, because the IAN boat's track was not collected and that boat made several of the key observations/reports for 9/02, much of the point information is more approximate (or absent) than for other days. Approximate locations have been estimated for the IAN observations.

The first sighting of the day was reported by the IAN crew, of a barge to the south of them heading to West Dock, but still too close to the whaling area (about the 6:06-6:14am). This point could not be marked, since the IAN track was not collected and it was the only boat out at the time, but was probably reasonably close to Cross Island. It was not reported whether the barge was inside of the barrier islands or not. However, the Deadhorse Com Center summarized the contact as follows:

The call was taken at approximately 5:59 am. Edward Nukapigak reported that a barge, later identified as the "Avik" (Crowley barge 160-4), was traveling several miles south of Cross Island and displaced a grouping of bowhead whales that were being tracked by the Nuiqsut Cross Island bowhead crews. The barge was contacted by the Com Center and moved out of the area.

IAN reported several whale sightings as well – about 9:01am (ian_090209a), 10:10am (ian_090209b), 11:40am (ian_090209c), and 14:05am (ian_090209d). Locations for these whales have been estimated, based on some reasonable assumptions (boats tend not to scout alone, boats that are together during part of the day are often together for most of the day, boats that are scouting together respond to each others' whale sightings by changing direction towards them, etc.) and the tracks of other boats. These locations are only approximate and are discussed in relation to the tracks of other boats (other boat report forms, annex).

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:			
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N		
% Ice Coverage:	0	Ice Type:	NA	Other Notes:	BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:			

Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? No **GPS Track Name:** IAN_090209a, IAN_090209b

If not, why not? refusal

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09Crew: IpalookGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/3 on both trips
Whaling today?		Yes	If not, why not?	

Time departed: 0540/1838Time returned: 1821/2058

First trip time of 12 hours 41 minute, roundtrip of 142 miles, furthest point from Cross Island of 27.8 miles

2nd trip time of 2 hours 20 minute, roundtrip of 35.1 miles, furthest point from Cross Island of 9.2 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip_090209A	N70.67 W147.66	857	Estimated location of whale IP boats sighted 8:57
ip1_090209B	N70.71 W147.46	946	Something seen, but not reported as a whale sighting

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NNE
Time spent actively scouting/# people looking:	3:15:01
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: Scouting patterns were complicated on 9/02/09, as boats responded to the sightings of others. See the annex for more detailed information than is provided here. It is likely the IP boats were with the IAN boat most of the day. At about 0857 IP1 and IP2 both turned sharply to the east. It is likely that this was in response to a sighting by the IP boats (ip_090209a), although neither they nor any other boat reported a sighting from the area. This whale was probably also seen only once. The IP1 boat probably also saw something about 9:46am (ip1_090209b), but the IP1 boat did not report a sighting and so was probably not confident in the sighting.

When the IAN boat saw a whale about 10:10am (ian_090209b), it appears that all boats except the BO boats went to assist them – IP1 and IP2 from the north, NUK2 and NUK3 (and probably NUK1) from the west, and TAL1 and TAL2 from the NW. This whale was soon lost and may not have been seen again. The IAN boat and the IP boats seem to have left the immediate area in a southerly direction about 11:10am or so. IAN, the IP boats, NUK3, and probably NUK1 scouted to the south of the ian_090209c sighting, towards Pole Island. The whale sighting represented by ian_090209d was probably seen while the boats were proceeding north, after going south to a point about 6 miles from Pole Island, and then turning and proceeding almost due north. The next whale sighting reported was about 4:13pm, 14.6 to 15.6 miles from Cross Island, by NUK1 (nuk1_090209a). All the other boats either eventually joined (NUK1, NUK3, IP2) the BO boats in this general area or returned to Cross Island to refuel and then went out again to help the other boats. At 7:25pm it was reported that two groups of boats were chasing whales – IAN, NUK1, and TAL1 (tal1_090209d) and the BO boats, TAL2, IP1, and NUK3 (bo1_090209e). Boats headed back to Cross Island at different times. IP1 headed west to Cross Island at scouting speed about 8:21, and once they were beyond the range of where they thought it likely to see the whale they had been chasing again, went to high speed at about 8:41. IP2 had gone from scouting speed to high speed about 8:34 (ip2_090209a) and was following a course parallel to that of its course out from Cross Island. Just after 8:40, when IAN reported seeing the barge, IP2 altered course to the NW so that it returned to Cross Island from the NE, possibly gaining a better view of the object IAN and they had observed. It is possible that they saw something as early as 8:34, prompting their high speed, but no detailed account from the whalers was obtained. This vessel was actually a privately-owned 57' vessel traveling about 6 miles north of Cross Island and was instructed to move further out to sea by the Communications Center.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type:	NA Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	

Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: IP1_090209a, IP1_090209b

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3 on both trips

Whaling today?	Yes	If not, why not?
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Time departed: 0544/1938 Time returned: 1925/2055

First trip time of 13 hours 41 minute, roundtrip of 167 miles, furthest point from Cross Island of 27.7 miles

2nd trip time of 1 hours 17 minute, roundtrip of 22.6 miles, furthest point from Cross Island of 7.4 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip2_090209A	N70.48 W147.69	2034	IP2 turned towards CI, went to high speed
ip2_090209B	N70.57 W147.88	2040	Estimated position of vessel when seen by IAN and IP2

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation): NNE

Time spent actively scouting/# people looking: 3:14:58

Time spent in travel/tow/assistance to other boats/on "break":

Notes: Scouting patterns were complicated on 9/02/09, as boats responded to the sightings of others. See the annex for more detailed information than is provided here. It is likely the IP boats were with the IAN boat most of the day. At about 0857 IP1 and IP2 both turned sharply to the east. It is likely that this was in response to a sighting by the IP boats (ip_090209a), although neither they nor any other boat reported a sighting from the area. This whale was probably also seen only once. The IP1 boat probably also saw something about 9:46am (ip1_090209b), but the IP1 boat did not report a sighting and so was probably not confident in the sighting.

When the IAN boat saw a whale about 10:10am (ian_090209b), it appears that all boats except the BO boats went to assist them – IP1 and IP2 from the north, NUK2 and NUK3 (and probably NUK1) from the west, and TAL1 and TAL2 from the NW. This whale was soon lost and may not have been seen again. The IAN boat and the IP boats seem to have left the immediate area in a southerly direction about 11:10am or so. IAN, the IP boats, NUK3, and probably NUK1 scouted to the south of the ian_090209c sighting, towards Pole Island. The whale sighting represented by ian_090209d was probably seen while the boats were proceeding north, after going south to a point about 6 miles from Pole Island, and then turning and proceeding almost due north. The next whale sighting reported was about 4:13pm, 14.6 to 15.6 miles from Cross Island, by NUK1 (nuk1_090209a). All the other boats either eventually joined (NUK1, NUK3, IP2) the BO boats in this general area or returned to Cross Island to refuel and then went out again to help the other boats. At 7:25pm it was reported that two groups of boats were chasing whales – IAN, NUK1, and TAL1 (tal1_090209d) and the BO boats, TAL2, IP1, and NUK3 (bo1_090209e). Boats headed back to Cross Island at different times. IP1 headed west to Cross Island at scouting speed about 8:21, and once they were beyond the range of where they thought it likely to see the whale they had been chasing again, went to high speed at about 8:41. IP2 had gone from scouting speed to high speed about 8:34 (ip2_090209a) and was following a course parallel to that of its course out from Cross Island. Just after 8:40, when IAN reported seeing the barge, IP2 altered course to the NW so that it returned to Cross Island from the NE, possibly gaining a better view of the object IAN and they had observed (ip2_090209b). It is possible that they saw something as early as 8:34, prompting their high speed, but no detailed account from the whalers was obtained. This vessel was actually a privately-owned 57' vessel traveling about 6 miles north of Cross Island and was instructed to move further out to sea by the Communications Center.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	

Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? Yes **GPS Track Name:** IP2_090209a, IP2_090209b
If not, why not? _____

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 **Use one form for each vessel/day**

Date: 09/02/09 **Crew:** Nukapigak **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/3

Whaling today? Yes **If not, why not?** _____

Time departed: 0613	Time returned: 2125
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Trip time of 15 hours 12 minute, roundtrip unknown, furthest point from Cross Island unknown

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk1_090209a	N70.63 W147.47	1613	Whale seen 14.6 to 15.6 miles from CI (location approximate)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Probably N with NUK3
Time spent actively scouting/# people looking:	3/15:12
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: As the accounts for 9/02/09 are complex, and no track was obtained for NUK1, accounts for all three NUK Boats are combined. NUK1 and NUK3 headed north from Cross Island at about 6:13. NUK2 did not head out to join them until about 8:37. The first whale sighting was reported by NUK1 or NUK3 about 6.3 miles North of Cross Island (NUK3_090209a, 6:33am). It was recorded by the Com Center as the NUK1 boat but by a crew member in the NUK3 boat. It is likely that the two boats were very close together and since the track for NUK1 was not collected, it has been mapped on the NUK3 track. Where the NUK3 boat actually slowed down to search for this whale is indicated by point nuk3_090209a'. NUK3 had left Cross Island headed north, and continued north after seeing this whale. They may have been following this whale, but more likely lost it. The next sighting, also by NUK3, was 16 miles North of Cross Island at about 7:48am (NUK3_090209b), actually slowing to look for it at nuk3_090209b'. These were the only sightings reported by the NUK3 boat, although they scouted until about 9:29pm. They may have seen some of the other whales reported by other crews later in the day (about 16 and 20 miles from Cross Island), but did not remark on them. After NUK3 saw their second whale, they continued to the east (in response to a sighting by IAN, ian_090209b, about 10:10). NUK3 (and probably NUK1) left the area about 11:20am to head towards "Narwhal" (actually Pole) Island. The NUK2 boat remained searching in the "ian_090209b" area until 11:30am, when it turned south and proceeded at high speed to join the IAN (and other) boats. IAN had reported seeing many whale birds about 11:30, and at 11:40 reported a whale sighting (ian_090209c). However, since the NUK2 boat actually looked for IAN and the other boats near Narwhal Island, NUK2 did not join the other boats until about 2:36pm. The NUK boats then headed south to a point about 5.5 miles north of Pole Island (probably in the company of IAN). They then headed north and essentially retraced their path to the area of the ian_090209b sighting. NUK1 reported a whale about 4:13pm, 14.6 to 15.6 miles from Cross Island (nuk1_090209a). NUK2 and other boats responded to this sighting, and the position of the sighting is approximated from their tracks (and so is only very approximate). The NUK2 and NUK3 boats were scouting together when this sighting was made - NUK2 going to help find/chase this whale and NUK3 continuing. They followed this whale NW and then N, but lost it. They then responded to a sighting report by BO1 to their SW. NUK3 may have seen this whale for the last time about 20:51 (nuk2_090209c and nuk3_090209c'). After losing track of this whale, the boats returned to Cross Island, but some stayed out looking for the whale longer than others.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	

Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?	No	If yes, describe below
GPS track? No	GPS Track Name:	
If not, why not?	Refusal	

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09Crew: NukapigakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Scouting w/2

Whaling today?	Yes	If not, why not?
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Time departed: 0837Time returned: 1810Trip time of 9 hours 33 minute, roundtrip of 132 miles, furthest point from Cross Island 24.7 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk1_090209A	N70.63 W147.47	1613	Whale seen 14.6 to 15.6 miles from CI (location approximate)
nuk2_090209A	N70.63 W147.47	1629	NUK2 in the area of whale seen by NUK3 @ 16:13

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE to join other NUK boats
Time spent actively scouting/# people looking:	2/9:33
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: As the accounts for 9/02/09 are complex, and no track was obtained for NUK1, accounts for all three NUK Boats are combined. NUK1 and NUK3 headed north from Cross Island at about 6:13. NUK2 did not head out to join them until about 8:37. The first whale sighting was reported by NUK1 or NUK3 about 6.3 miles North of Cross Island (NUK3_090209a, 6:33am). It was recorded by the Com Center as the NUK1 boat but by a crew member in the NUK3 boat. It is likely that the two boats were very close together and since the track for NUK1 was not collected, it has been mapped on the NUK3 track. Where the NUK3 boat actually slowed down to search for this whale is indicated by point nuk3_090209a'. NUK3 had left Cross Island headed north, and continued north after seeing this whale. They may have been following this whale, but more likely lost it. The next sighting, also by NUK3, was 16 miles North of Cross Island at about 7:48am (NUK3_090209b), actually slowing to look for it at nuk3_090209b'. These were the only sightings reported by the NUK3 boat, although they scouted until about 9:29pm. They may have seen some of the other whales reported by other crews later in the day (about 16 and 20 miles from Cross Island), but did not remark on them. After NUK3 saw their second whale, they continued to the east (in response to a sighting by IAN, ian_090209b, about 10:10). NUK3 (and probably NUK1) left the area about 11:20am to head towards "Narwhal" (actually Pole) Island. The NUK2 boat remained searching in the "ian_090209b" area until 11:30am, when it turned south and proceeded at high speed to join the IAN (and other) boats. IAN had reported seeing many whale birds about 11:30, and at 11:40 reported a whale sighting (ian_090209c). However, since the NUK2 boat actually looked for IAN and the other boats near Narwhal Island, NUK2 did not join the other boats until about 2:36pm. The NUK boats then headed south to a point about 5.5 miles north of Pole Island (probably in the company of IAN). They then headed north and essentially retraced their path to the area of the ian_090209b sighting. NUK1 reported a whale about 4:13pm, 14.6 to 15.6 miles from Cross Island (nuk1_090209a). NUK2 and other boats responded to this sighting, and the position of the sighting is approximated from their tracks (and so is only very approximate). The NUK2 and NUK3 boats were scouting together when this sighting was made - NUK2 going to help find/chase this whale and NUK3 continuing. They followed this whale NW and then N, but lost it. They then responded to a sighting report by BO1 to their SW. NUK3 may have seen this whale for the last time about 20:51 (nuk2_090209c and nuk3_090209c'). After losing track of this whale, the boats returned to Cross Island, but some stayed out looking for the whale longer than others.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type:	NA Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	

Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: NUK2_090209b.gdb (NUK2_090209a.gdb was an aborted trip)

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0617

Time returned: 2129

Trip time of 15 hours 12 minute, roundtrip of 141 miles, furthest point from Cross Island 22.7 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NUK3_090209A	N70.59 W147.99	633	Location of NUK3 when whale seen, 6.3 miles N of CI
nuk3_090209A'	N70.59 W147.98	635	Estimated location of whale seen at 6:33
nuk3_090209B	N70.72 W147.87	748	Location of NUK3 when whale seen 16 miles N of CI
nuk3_090209B'	N70.73 W147.85	749	Estimated location of whale seen at 7:48
nuk3_090209C	N70.5 W147.7	2051	Whale seen, but only once
nuk3_090209C'	N70.51 W147.71	2054	Estimated location of whale seen by NUK3 @ 20:48

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N
Time spent actively scouting/# people looking:	3/15:12
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: As the accounts for 9/02/09 are complex, and no track was obtained for NUK1, accounts for all three NUK Boats are combined. NUK1 and NUK3 headed north from Cross Island at about 6:13. NUK2 did not head out to join them until about 8:37. The first whale sighting was reported by NUK1 or NUK3 about 6.3 miles North of Cross Island (NUK3_090209a, 6:33am). It was recorded by the Com Center as the NUK1 boat but by a crew member in the NUK3 boat. It is likely that the two boats were very close together and since the track for NUK1 was not collected, it has been mapped on the NUK3 track. Where the NUK3 boat actually slowed down to search for this whale is indicated by point nuk3_090209a'. NUK3 had left Cross Island headed north, and continued north, perhaps following this whale. They more likely soon lost it. The next sighting, also by NUK3, was 16 miles North of Cross Island at about 7:48am (NUK3_090209b, nuk3_090209b'). These were the only sightings reported by the NUK3 boat, although they scouted until about 9:29pm. They may have seen some of the other whales reported by other crews later in the day, but did not remark on them. After NUK3 saw their second whale, they continued to the east (in response to a sighting by IAN, ian_090209b, about 10:10). NUK3 (and probably NUK1) left the area about 11:20am to head towards "Narwhal" (actually Pole) Island. The NUK2 boat remained searching in the "ian_090209b" area until 11:30am, when it turned south and proceeded at high speed to join the IAN (and other) boats. IAN had reported seeing many whale birds about 11:30, and at 11:40 reported a whale sighting (ian_090209c). However, since the NUK2 boat actually looked for IAN and the other boats near Narwhal Island, NUK2 did not join the other boats until about 2:36pm. The NUK boats then headed south to a point about 5.5 miles north of Pole Island (probably in the company of IAN). They then headed north and essentially retraced their path to the area of the ian_090209b sighting. NUK1 reported a whale about 4:13pm, 14.6 to 15.6 miles from Cross Island (nuk1_090209a). NUK2 and other boats responded to this sighting, and the position of the sighting is approximated from their tracks (and so is only very approximate). The NUK2 and NUK3 boats were scouting together when this sighting was made - NUK2 going to help find/chase this whale and NUK3 continuing. They followed this whale NW and then N, but lost it. They then responded to a sighting report by BO1 to their SW. NUK3 may have seen this whale for the last time about 20:51 (nuk2_090209c and nuk3_090209c'). After losing track of this whale, the boats returned to Cross Island, but some stayed out looking for the whale longer than others.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type:	NA Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	

Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe
 GPS track? Yes GPS Track Name: NUK3_090209.gdb
 If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/02/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 1 (TAL1)	AL	24	Yamaha 250	Scouting w/4 (Both trips)
Whaling today?	Yes	If not, why not?		

Time departed: 0614/17:22

Time returned: 1353/2123

First trip time of 7 hours 39 minutes, roundtrip of 67.8 miles, furthest point from Cross Island 19.5 miles

Second trip time of 4 hours 1 minute, roundtrip of 44.9 miles, furthest point from Cross Island 14.3 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal1_090209A	N70.7 W147.57	1002	area of slow boat speed, no reported sightings
tal1_090209B	N70.67 W147.66	1753	TAL1 joined IAN and NUK1 boats looking for whale
TAL1_090209C	N70.61 W147.75	1849	Whale reported, may have been first seen 18:42
tal1_090209D	N70.5 W147.66	1925	TAL1, IAN, NUK1 boats chasing a whale
tal1_090209E	N70.5 W147.66	1946	harpoon thrown but apparently missed whale
tal1_090209F	N70.49 W147.68	1947	Potential striking opportunity

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N first trip, NE second trip
Time spent actively scouting/# people looking:	4/11:40
Time spent in travel/tow/assistance to other boats/on "break":	
<p>Notes: TAL1 and TAL2 coordinated for most of the day, but were not necessarily in close proximity (especially in the morning when TAL1 coordinated closely with IAN and responded to the reported sightings of other boats). TAL1 reported a sighting at 7:58am and 11.2 miles WNW of Cross Island (TAL2_090209a). TAL2 thought this whale went then east, so TAL2 went east but lost it, and they turned west again about 8:16am. No other boats went to assist with this sighting. TAL2 turned east again about 8:57, in response to the sighting of whales to the east and from that point on was fairly close to TAL1. TAL1 developed motor problems and had to return to Cross Island, and TAL2 accompanied TAL1 for part of this trip, and then resumed independent scouting about 12:01pm when they saw some promising signs for whales (but had no reported sightings) and TAL1 was reasonably close to Cross Island (9 miles). TAL1 reached Cross Island about 13:54 and TAL2 eventually joined them at about 14:45. Both left Cross Island (TAL2 at 17:10, TAL1 at 17:22) and initially went north to join the IAN and NUK1 boats. About 5 miles north of Cross Island they split. TAL1 continued at high speed north to join IAN and NUK1 about 5:53pm (tal1_090209b) while the TAL2 boat went SE at scouting speed to join the BO and other boats. TAL1 (and probably the IAN and NUK boats) then went south at scouting speed in the general direction of the other group of boats. TAL1 reported spotting a whale at 18:49 (TAL1_090209c) and turned west to try to follow it. They soon lost it, or perhaps did not see it again, and about 19:05went "on top of the water" at high speed and slowed down in the general area of the other boats about 19:18. Soon after this, at 19:25it was reported that two groups of boats were chasing whales – IAN, NUK1, and TAL1 (tal1_090209d) and the BO boats, TAL2, IP1, and NUK3 (bo1_090209e). When one of the boats in the "IAN/TAL1/NUK1" group threw a harpoon (7:45, tal1_090209e – marked on the TAL1 track since the IAN and NUK1 tracks were not available), all the boats in the other group joined them. The darting gun missed the whale, but all boats continued to concentrate following/chasing this whale. About 19:47 TAL1 had a potential opportunity to strike this whale again, but was not quite able to obtain the proper position (tal1_090209f). The whale dove, and TAL1 continued to scout to the W, NW, SE and N – evidently in response to possible sightings). In the last area they scouted from about 8:55 to 9:05, and then headed back to Cross Island. The whale was not definitively seen once it dove about 8:48pm. Boats headed back to Cross Island at different times.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type:	NA Other Notes: BP 29.65 and rising
Wave Height:	NA	Other notes on sea conditions:	
Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good			

all of the day, with swells in areas.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe

GPS track? Yes GPS Track Name: TAL1_090209a.gdb, TAL1_090209b.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 Use one form for each vessel/day

Date: 09/02/09 Crew: Taalak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 2 (TAL2)	AL	20	Yamaha 115	Scouting w/4 (Both trips)

Whaling today?	Yes	If not, why not?
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Time departed: 0614/1710 Time returned: 1442/2126

First trip time of 8 hours 28 minutes, roundtrip of 83.4 miles, furthest point from Cross Island 18.8 miles

Second trip time of 4 hours 16 minutes, roundtrip of 35.3 miles, furthest point from Cross Island 8.0 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
TAL2_090209A	N70.66 W148.07	758	Whale seen 11.2 miles WNW of CI

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N first trip, NE second trip
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Time spent actively scouting/# people looking:	4/12:44
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Time spent in travel/tow/assistance to other boats/on "break":	
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Notes: TAL1 and TAL2 coordinated for most of the day, but were not necessarily in close proximity (especially in the morning when TAL1 coordinated closely with IAN and responded to the reported sightings of other boats). TAL1 reported a sighting at 7:58am and 11.2 miles WNW of Cross Island (TAL2_090209a). TAL2 thought this whale went then east, so TAL2 went east but lost it, and they turned west again about 8:16am. No other boats went to assist with this sighting. TAL2 turned east again about 8:57, in response to the sighting of whales to the east and from that point on was fairly close to TAL1. TAL1 developed motor problems and had to return to Cross Island, and TAL2 accompanied TAL1 for part of this trip, and then resumed independent scouting about 12:01pm when they saw some promising signs for whales (but had no reported sightings) and TAL1 was reasonably close to Cross Island (9 miles). TAL1 reached Cross Island about 13:54 and TAL2 eventually joined them at about 14:45. Both left Cross Island (TAL2 at 17:10, TAL1 at 17:22) and initially went north to join the IAN and NUK1 boats. About 5 miles north of Cross Island they split. TAL1 continued at high speed north to join IAN and NUK1 about 5:53pm (tal1_090209b) while the TAL2 boat went SE at scouting speed to join the BO and other boats. TAL1 (and probably the IAN and NUK boats) then went south at scouting speed in the general direction of the other group of boats. TAL1 reported spotting a whale at 18:49 (TAL1_090209c) and turned west to try to follow it. They soon lost it, or perhaps did not see it again, and about 19:05 went "on top of the water" at high speed and slowed down in the general area of the other boats about 19:18. Soon after this, at 19:25 it was reported that two groups of boats were chasing whales – IAN, NUK1, and TAL1 (tal1_090209d) and the BO boats, TAL2, IP1, and NUK3 (bo1_090209e). When one of the boats in the "IAN/TAL1/NUK1" group threw a harpoon (7:45, tal1_090209e – marked on the TAL1 track since the IAN and NUK1 tracks were not available), all the boats in the other group joined them. The darting gun missed the whale, but all boats continued to concentrate following/chasing this whale. About 19:47 TAL1 had a potential opportunity to strike this whale again, but was not quite able to obtain the proper position (tal1_090209f). The whale dove, and TAL1 continued to scout to the W, NW, SE and N – evidently in response to possible sightings). In the last area they scouted from about 8:55 to 9:05, and then headed back to Cross Island. The whale was not definitively seen once it dove about 8:48pm. Boats headed back to Cross Island at different times.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-10 mph, starts SW but shifts W, SE, E, N
% Ice Coverage:	0	Ice Type:	NA Other Notes: BP 29.65 and rising

Wave Height:	NA	Other notes on sea conditions:	
Other pertinent notes: Water reported "like glass" in the morning (wind speed about 3.5 mph). Conditions good all of the day, with swells in areas.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe**
GPS track? Yes **GPS Track Name:** TAL2_090209a.gdb, TAL2_090209b.gdb
If not, why not? _____

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 **Use one form for each vessel/day**

Date: 09/03/09 **Crew:** various **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	disabled
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Crew stayed onshore

Whaling today? No **If not, why not?** NAP boat disabled, NUK2 crew stayed onshore

Time departed: NA **Time returned:** NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.9 and falling
Wave Height:	high	Other notes on sea conditions:	
Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? NA **GPS Track Name:**
If not, why not? _____

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09

Crew: Oyagak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/4
Whaling today? Yes If not, why not?				

Time departed: 0846

Time returned: 1200

Trip time of 3 hours 14 minutes, roundtrip of 37.2 miles, furthest point from Cross Island 10.1 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	E towards past whale sightings (and where seas were lower)
Time spent actively scouting/# people looking:	4/3:14
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: Although BO1 and BO2 left and returned to Cross Island at about the same times, they did not remain all that close together, due to the marginal conditions for scouting. As the smallest whaling boats on Cross Island, they were least able to handle the conditions, especially BO2. Both headed E, between 6 and 9 miles from Cross Island, and eventually tried to head N and then NW. BO1 ended up about 10 miles due N of Cross Island before returning to the island for the day. BO2 was not able to go as far N (or saw some promising "whalesign" to the SE) and turned around about 6.4 miles NE of Cross Island to return SE to about 9 miles E of Cross Island (again) and then returning almost due W to the island. The BO boats responded to some of the reported sightings, but due to conditions did not report seeing any whales.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.9 and falling
Wave Height:	high	Other notes on sea conditions:	
Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe

GPS track? Yes GPS Track Name: BO1_090309.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09

Crew: Oyagak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/4
Whaling today? Yes If not, why not?				

Time departed: 0855

Time returned: 1222

Trip time of 3 hours 27 minutes, roundtrip of 34.8 miles, furthest point from Cross Island 8.7 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	E towards past whale sightings (and where seas were lower)
Time spent actively scouting/# people looking:	4/3:27
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: Although BO1 and BO2 left and returned to Cross Island at about the same times, they did not remain all that close together, due to the marginal conditions for scouting. As the smallest whaling boats on Cross Island, they were least able to handle the conditions, especially BO2. Both headed E, between 6 and 9 miles from Cross Island, and eventually tried to head N and then NW. BO1 ended up about 10 miles due N of Cross Island before returning to the island for the day. BO2 was not able to go as far N (or saw some promising "whalesign" to the SE) and turned around about 6.4 miles NE of Cross Island to return SE to about 9 miles E of Cross Island (again) and then returning almost due W to the island. The BO boats responded to some of the reported sightings, but due to conditions did not report seeing any whales.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.9 and falling
Wave Height:	high	Other notes on sea conditions:	
Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe

GPS track? Yes GPS Track Name: BO2_090309.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09

Crew: Aqarguin

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5 (both trips)
Whaling today? Yes If not, why not?				

Time departed: 0854/1322

Time returned: 1212/1442

First trip time of 3 hours 18 minutes, roundtrip of unknown miles, furthest point from CI unknown miles

Second trip time of 1 hours 20 minutes, roundtrip of unknown miles, furthest point from CI unknown miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IAN_090309A	N70.53 W147.63	934	Whale seen, position only approximate

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Unknown – likely east with BO boats
Time spent actively scouting/# people looking:	5/4:38
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: No information recorded or obtained. IAN reported 1 sighting (over the radio) but did not otherwise report His position, even in relation to other boats. It is likely that the IAN track was similar to that of the NUK and TAL boats.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.9 and falling
Wave Height:	high	Other notes on sea conditions:	
Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe

GPS track? No GPS Track Name:

If not, why not? Refusal

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09

Crew: Ipalook/Napageak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/3, then w/5 (as NAP)

Whaling today?	Yes	If not, why not?
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Time departed: 0632/1406

Time returned: 1208/1509

First trip time of 5 hours 36 minutes, roundtrip of 48.3 miles, furthest point from Cross Island 12.1 miles

Second trip time of 1 hours 53 minutes, roundtrip of 20.2 miles, furthest point from Cross Island 6.8 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IP1_090309A	N70.55 W147.78	723	Whale see and marked
IP1_090309B	N70.52 W147.72	809	Last sighting of whale first seen @ 7:23
ip1_090309C	N70.54 W147.63	917	Area searched by IP1 boat for 40 minutes, no sightings reported
ip1_090309D	N70.58 W147.66	950	Whale spotted
IP1_090309E	N70.59 W147.66	958	Blow seen and marked from whale first seen @ 9:50
IP1_090309F	N70.62 W147.72	1017	Blow reported, thought to be same whale seen @ 9:50
ip1_090309G	N70.65 W148.03	1046	Resighting of whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation): NE, then SE – then N, W, and S back to Cross Island (a box)

Time spent actively scouting/# people looking: 3/5:36 for IP1 crew, 5/1:53 for NAP crew

Time spent in travel/tow/assistance to other boats/on "break":

Notes: The IP1 and IP2 boats were the first boats out, at 6:32am, as the captain had decided the night before to go out early unless conditions were very bad. The other seven boats all went out between 8:46 and 9:23, since conditions did not appear to be very good. Also, the IP boats had seen a barge at 6:58am. They had left Cross Island heading ENE and were about 5 miles from Cross Island when they saw the barge (IP2_090309a). They reported that the barge as 5 miles due north of them (ip2_090309a'), heading to the west and moving "pretty fast," and quite loud. They decided to travel almost due east, directly away from the barge [implying that this would give them the greatest chance to encounter whales not disturbed by the barge]. They proceeded east at 8-10 mph until about 7:04am (about 1.1 miles after seeing the barge) and dropped to scouting speed (3-4 mph). IP2 reported seeing a whale, but did not specify the time or place (estimated as ip2_090309b). At 7:23am the IP boats saw a whale and marked a point at IP1_090309a (and located by IP2 at ip2-090309b). They were able to follow this whale for some distance, but last saw it at IP1_090309b. They then went at scouting speed towards the IAN boat, which had reported seeing a whale (location only indicated in a general way by the IP2 boat as ian_090309a). The IP boats scouted in this area for nearly an hour. No points were marked, although IP1 scouted a limited area for 40 minutes (ip1_090309c) and IP2 located two whales or blows that were seen, but only one time each (ip2_090309c and ip2_090309d). These could have been the same whale, but were discussed as being different whales. They then scouted north and at 9:50am IP1 saw a whale (ip1_090309d) and were able to follow it for a while. They saw a blow from this whale at 9:58 (IP1_090309e). They saw another blow at IP1_090309f (10:17am) that they thought was the same whale. They continued north, following the whale birds and saw another blow to the north (but did not locate it – unsure if it was really an additional blow). The IP boats later joined the TAL boats and reported two more sightings of what was thought to be the same whale reported as tal2_090309b– ip2_090309e and ip1_090309g – but conditions had deteriorated so much that by somewhat after 11am all boats had started back to Cross Island at scouting speed (conditions may have precluded higher speeds). Most boats had returned to the island by 12:43. Both IP1 and IP2 made short trips in the afternoon (IP1 manned by the NAP crew) but reported no sightings.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds? Overcast **Weather notes:** Marginal conditions, sea state after 11:00 am very rough

Wind Direction: shifting **Wind speed and other notes:** 4-37 mph, increasing through day

% Ice Coverage: 0 **Ice Type:** NA **Other Notes:** BP 29.9 and falling

Wave Height: high **Other notes on sea conditions:**

Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe**

GPS track? Yes **GPS Track Name:** IP1_090309.gdb, NAP_090309.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09

Crew: Ipalook/Napageak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3 (both trips)
Whaling today?	Yes	If not, why not?		

Time departed: 0632/1331

Time returned: 1200/1513

First trip time of 5 hours 28 minutes, roundtrip of 55.1 miles, furthest point from Cross Island 12.7 miles

Second trip time of 1 hours 42 minutes, roundtrip of 18.4 miles, furthest point from Cross Island 6.0 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IP2_090309A	N70.55 W147.86	658	IP2 position when they saw barge
ip2_090309A'	N70.62 W147.86	658	Estimated position of barge seen @ 6:58 (5 miles N of IP2)
ip2_090309B	N70.56 W147.78	720	Whale seen, first seen by IP1
ip2_090309C	N70.53 W147.57	914	Blow seen, but only once, reported as a different whale
ip2_090309D	N70.54 W147.55	928	Blow seen, but only once, reported as a different whale
ip2_090309E	N70.68 W148.06	1112	Resighting of whale
IAN_090309A	N70.53 W147.63	934	Whale seen, position only approximate

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE, then SE – then N, W, and S back to Cross Island (a box)
Time spent actively scouting/# people looking:	3/7:10
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: The IP1 and IP2 boats were the first boats out, at 6:32am, as the captain had decided the night before to go out early unless conditions were very bad. The other seven boats all went out between 8:46 and 9:23, since conditions did not appear to be very good. Also, the IP boats had seen a barge at 6:58am. They had left Cross Island heading ENE and were about 5 miles from Cross Island when they saw the barge (IP2_090309a). They reported that the barge as 5 miles due north of them (ip2_090309a'), heading to the west and moving "pretty fast," and quite loud. They decided to travel almost due east, directly away from the barge [implying that this would give them the greatest chance to encounter whales not disturbed by the barge]. They proceeded east at 8-10 mph until about 7:04am (about 1.1 miles after seeing the barge) and dropped to scouting speed (3-4 mph). IP2 reported seeing a whale, but did not specify the time or place (estimated as ip2_090309b). At 7:23am the IP boats saw a whale and marked a point at IP1_090309a (and located by IP2 at ip2-090309b). They were able to follow this whale for some distance, but last saw it at IP1_090309b. They then went at scouting speed towards the IAN boat, which had reported seeing a whale (location only indicated in a general way by the IP2 boat as ian_090309a). The IP boats scouted in this area for nearly an hour. No points were marked, although IP1 scouted a limited area for 40 minutes (ip1_090309c) and IP2 located two whales or blows that were seen, but only one time each (ip2_090309c and ip2_090309d). These could have been the same whale, but were discussed as being different whales. They then scouted north and at 9:50am IP1 saw a whale (ip1_090309d) and were able to follow it for a while. They saw a blow from this whale at 9:58 (IP1_090309e). They saw another blow at IP1_090309f (10:17am) that they thought was the same whale. They continued north, following the whale birds and saw another blow to the north (but did not locate it – unsure if it was really an additional blow). The IP boats later joined the TAL boats and reported two more sightings of what was thought to be the same whale reported as tal2_090309b– ip2_090309e and ip1_090309g – but conditions had deteriorated so much that by somewhat after 11am all boats had started back to Cross Island at scouting speed (conditions may have precluded higher speeds). Most boats had returned to the island by 12:43. Both IP1 and IP2 made short trips in the afternoon (IP1 manned by the NAP crew) but reported no sightings.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.9 and falling
Wave Height:	high	Other notes on sea conditions:	
Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe**

GPS track? Yes **GPS Track Name:** IP2_090309a.gdb, IP2_090309b.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09Crew: NukapigakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/4, then w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0923/1320Time returned: 1225/1457

First trip time of 3 hours 2 minutes, roundtrip of 35.2 miles, furthest point from Cross Island 12.4 miles

Second trip time of 1 hours 37 minutes, roundtrip of 15.8 miles, furthest point from Cross Island 5.7 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	North first trip, NE 2 nd trip
Time spent actively scouting/# people looking:	4/3:02, then 3/1:37
Time spent in travel/tow/assistance to other boats/on "break":	
Notes: The TAL1, TAL2, and NUK1 boats all left Cross Island at the same time (9:23am) in a generally northern direction. NUK3 headed more NE, but ended up N of Cross Island with the other boats. TAL spotted a whale 5.5 miles from Cross Island (TAL1_090309a at about 9:47am) and TAL1 followed it to the NE. TAL2 and NUK1 headed more north or NNW, as TAL2 had spotted a whale about 6.9 miles from Cross Island at about 9:56am (TAL2_090309a). It is possible that the TAL1 and TAL2 whales were the same whale, but they were reported as different whales. TAL2 and NUK1 ended up north of Cross Island 10-12 miles between 10:30 and 11:00. The other seven boats were all east (BO2, BO1) or NE (IP1, IP2, NUK3, TAL1) of Cross Island (with no collected track for the IAN boat). All the "eastern" boats except for BO2 head towards TAL2 and NUK1 at high speed at about 10:31, as they had reported that they were seeing quite a few whales (tal2_090309b). This may indicate that the eastern boats were not seeing strong whale sign and had lost the whale(s) they may have been following. The BO2 boat clearly was following some promising signs, but did not report any sightings and after scouting for a period of time and winding up about 9 miles due east of Cross Island at 11:46 just returned to Cross Island at high speed. All the boats from the east (except BO2) arrived in the vicinity of TAL2 and NUK1 between 10:45 and 10:59. The wind was increasing markedly, however (from less than 5 mph to 35 mph by early afternoon). Even though there had been two more sightings of what was thought to be the same whale – ip2_090309e and ip1_090309g – conditions had deteriorated so much that by somewhat after 11am all boats had started back to Cross Island at scouting speed (conditions may have precluded higher speeds). Most boats had returned to the island by 12:43. The TAL1 boat and the NUK3 boat stayed out a bit longer to take an additional look at the area 6 to 7 miles NE of Cross Island. They were joined in this area after lunch by the NAP crew (using the IP1 boat), IP2, IAN, NUK1, and TAL2 (a few went more north than east). None reported any sightings, although TAL2 reported its position about 2:40 (tal2_090109b) and IP2 entered the coordinates as a waypoint (IP2_090109b). IP2_090109a was entered as IP2 left Narwhal Island, where they had briefly stopped for a rest. All boats were back on the island by 3:13pm.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.9 and falling
Wave Height:	high	Other notes on sea conditions:	
Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe**GPS track? Yes **GPS Track Name:** NUK1_090309a.gdb, NUK1_090309b.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/3
Whaling today?		Yes	If not, why not?	

Time departed: 0911

Time returned: 1435

Trip time of 5 hours 24 minutes, roundtrip of 50.0 miles, furthest point from Cross Island 11.3 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NUK3_090309A	N70.59 W147.73	1012	Unknown

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE, West, S and SE, NE, then SW back to Cross Island
Time spent actively scouting/# people looking:	3/5:24
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: The TAL1, TAL2, and NUK1 boats all left Cross Island at the same time (9:23am) in a generally northern direction. NUK3 headed more NE, but ended up N of Cross Island with the other boats. TAL spotted a whale 5.5 miles from Cross Island (TAL1_090309a at about 9:47am) and TAL1 followed it to the NE. TAL2 and NUK1 headed more north or NNW, as TAL2 had spotted a whale about 6.9 miles from Cross Island at about 9:56am (TAL2_090309a). It is possible that the TAL1 and TAL2 whales were the same whale, but they were reported as different whales. TAL2 and NUK1 ended up north of Cross Island 10-12 miles between 10:30 and 11:00. The other seven boats were all east (BO2, BO1) or NE (IP1, IP2, NUK3, TAL1) of Cross Island (with no collected track for the IAN boat). All the "eastern" boats except for BO2 head towards TAL2 and NUK1 at high speed at about 10:31, as they had reported that they were seeing quite a few whales (tal2_090309b). This may indicate that the eastern boats were not seeing strong whale sign and had lost the whale(s) they may have been following. The BO2 boat clearly was following some promising signs, but did not report any sightings and after scouting for a period of time and winding up about 9 miles due east of Cross Island at 11:46 just returned to Cross Island at high speed. All the boats from the east (except BO2) arrived in the vicinity of TAL2 and NUK1 between 10:45 and 10:59. The wind was increasing markedly, however (from less than 5 mph to 35 mph by early afternoon). Even though there had been two more sightings of what was thought to be the same whale - ip2_090309e and ip1_090309g - conditions had deteriorated so much that by somewhat after 11 am all boats had started back to Cross Island at scouting speed (conditions may have precluded higher speeds). Most boats had returned to the island by 12:43. The TAL1 boat and the NUK3 boat stayed out a bit longer to take an additional look at the area 6 to 7 miles NE of Cross Island. They were joined in this area after lunch by the NAP crew (using the IP1 boat), IP2, IAN, NUK1, and TAL2 (a few went more north than east). None reported any sightings, although TAL2 reported its position about 2:40 (tal2_090109b) and IP2 entered the coordinates as a waypoint (IP2_090109b). IP2_090109a was entered as IP2 left Narwhal Island, where they had briefly stopped for a rest. All boats were back on the island by 3:13pm.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	high	Other Notes:	BP 29.9 and falling

Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No

If yes, describe

GPS track? Yes GPS Track Name: NUK3_090309.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 1 (TAL1)	AL	24	Yamaha 250	Scouting w/4
Whaling today?		Yes	If not, why not?	

Time departed: 0923

Time returned: 1448

Trip time of 5 hours 25 minutes, roundtrip of 54.5 miles, furthest point from Cross Island 12.1 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
TAL1_090309A	N70.57 W147.95	947	Whale seen about 5.5 miles from CI

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE, then almost back to CI, N and NE, West, South to CI
Time spent actively scouting/# people looking:	4/5:25
Time spent in travel/tow/assistance to other boats/on "break":	

Notes: The TAL1, TAL2, and NUK1 boats all left Cross Island at the same time (9:23am) in a generally northern direction. NUK3 headed more NE, but ended up N of Cross Island with the other boats. TAL spotted a whale 5.5 miles from Cross Island (TAL1_090309a at about 9:47am) and TAL1 followed it to the NE. TAL2 and NUK1 headed more north or NNW, as TAL2 had spotted a whale about 6.9 miles from Cross Island at about 9:56am (TAL2_090309a). It is possible that the TAL1 and TAL2 whales were the same whale, but they were reported as different whales. TAL2 and NUK1 ended up north of Cross Island 10-12 miles between 10:30 and 11:00. The other seven boats were all east (BO2, BO1) or NE (IP1, IP2, NUK3, TAL1) of Cross Island (with no collected track for the IAN boat). All the "eastern" boats except for BO2 head towards TAL2 and NUK1 at high speed at about 10:31, as they had reported that they were seeing quite a few whales (tal2_090309b). This may indicate that the eastern boats were not seeing strong whale sign and had lost the whale(s) they may have been following. The BO2 boat clearly was following some promising signs, but did not report any sightings and after scouting for a period of time and winding up about 9 miles due east of Cross Island at 11:46 just returned to Cross Island at high speed. All the boats from the east (except BO2) arrived in the vicinity of TAL2 and NUK1 between 10:45 and 10:59. The wind was increasing markedly, however (from less than 5 mph to 35 mph by early afternoon). Even though there had been two more sightings of what was thought to be the same whale - ip2_090309e and ip1_090309g - conditions had deteriorated so much that by somewhat after 11 am all boats had started back to Cross Island at scouting speed (conditions may have precluded higher speeds). Most boats had returned to the island by 12:43. The TAL1 boat and the NUK3 boat stayed out a bit longer to take an additional look at the area 6 to 7 miles NE of Cross Island. They were joined in this area after lunch by the NAP crew (using the IP1 boat), IP2, IAN, NUK1, and TAL2 (a few went more north than east). None reported any sightings, although TAL2 reported its position about 2:40 (tal2_090109b) and IP2 entered the coordinates as a waypoint (IP2_090109b). IP2_090109a was entered as IP2 left Narwhal Island, where they had briefly stopped for a rest. All boats were back on the island by 3:13pm.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	high	Other Notes:	BP 29.9 and falling

Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No

If yes, describe

GPS track? Yes GPS Track Name: TAL1_090309.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/03/09Crew: TaalakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 2 (TAL2)	AL	20	Yamaha 115	Scouting w/4, then w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0923/1331Time returned: 1243/1503

First trip time of 3 hours 20 minutes, roundtrip of 28.7 miles, furthest point from Cross Island 12.2 miles

Second trip time of 1 hours 32 minutes, roundtrip of 11.4 miles, furthest point from Cross Island 3.9 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
TAL2_090309A	N70.6 W147.97	956	Whale seen about 6.9 miles from CI
tal2_090309B	N70.64 W148.03	1031	Area where TAL2 and other boats were seeing whales

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	North 1 st trip, NE 2 nd trip
Time spent actively scouting/# people looking:	4/3:20, 4/1:32
Time spent in travel/tow/assistance to other boats/on "break":	
<p>Notes: The TAL1, TAL2, and NUK1 boats all left Cross Island at the same time (9:23am) in a generally northern direction. NUK3 headed more NE, but ended up N of Cross Island with the other boats. TAL spotted a whale 5.5 miles from Cross Island (TAL1_090309a at about 9:47am) and TAL1 followed it to the NE. TAL2 and NUK1 headed more north or NNW, as TAL2 had spotted a whale about 6.9 miles from Cross Island at about 9:56am (TAL2_090309a). It is possible that the TAL1 and TAL2 whales were the same whale, but they were reported as different whales. TAL2 and NUK1 ended up north of Cross Island 10-12 miles between 10:30 and 11:00. The other seven boats were all east (BO2, BO1) or NE (IP1, IP2, NUK3, TAL1) of Cross Island (with no collected track for the IAN boat). All the "eastern" boats except for BO2 head towards TAL2 and NUK1 at high speed at about 10:31, as they had reported that they were seeing quite a few whales (tal2_090309b). This may indicate that the eastern boats were not seeing strong whale sign and had lost the whale(s) they may have been following. The BO2 boat clearly was following some promising signs, but did not report any sightings and after scouting for a period of time and winding up about 9 miles due east of Cross Island at 11:46 just returned to Cross Island at high speed. All the boats from the east (except BO2) arrived in the vicinity of TAL2 and NUK1 between 10:45 and 10:59. The wind was increasing markedly, however (from less than 5 mph to 35 mph by early afternoon). Even though there had been two more sightings of what was thought to be the same whale – ip2_090309e and ip1_090309g – conditions had deteriorated so much that by somewhat after 11 am all boats had started back to Cross Island at scouting speed (conditions may have precluded higher speeds). Most boats had returned to the island by 12:43. The TAL1 boat and the NUK3 boat stayed out a bit longer to take an additional look at the area 6 to 7 miles NE of Cross Island. They were joined in this area after lunch by the NAP crew (using the IP1 boat), IP2, IAN, NUK1, and TAL2 (a few went more north than east). None reported any sightings, although TAL2 reported its position about 2:40 (tal2_090109b) and IP2 entered the coordinates as a waypoint (IP2_090109b). IP2_090109a was entered as IP2 left Narwhal Island, where they had briefly stopped for a rest. All boats were back on the island by 3:13pm.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Marginal conditions, sea state after 11:00 am very rough
Wind Direction:	shifting	Wind speed and other notes:	4-37 mph, increasing through day
% Ice Coverage:	0	Ice Type:	NA
		Other Notes:	BP 29.9 and falling
Wave Height:	high	Other notes on sea conditions:	
Other pertinent notes: Wind shifty in morning, then becoming more westerly in direction			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe

GPS track? Yes GPS Track Name: TAL2_090309a.gdb, TAL2_090309b.gdb

If not, why not?

Use Other Sheet For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09 **Crew:** various **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	disabled
Aqarguin (IAN)	AL	22	Yamaha 225	Stayed onshore, conditions marginal

Whaling today? No **If not, why not?** NAP boat disabled, AIN crew stayed onshore

Time departed: NA **Time returned:** NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	<u>Overcast</u>	Weather notes:	<u>Windy and wet</u>
Wind Direction:	<u>Westerly</u>	Wind speed and other notes:	<u>37 to 3 mph, lowest in afternoon</u>
% Ice Coverage:	<u>0</u>	Ice Type:	<u>NA</u>
Wave Height:	<u>NA</u>	Other Notes:	<u>Wave height not reported, but conditions rough</u>
Other pertinent notes: <u>Wind primarily westerly, shifty during period of low wind in the afternoon</u>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? NA **GPS Track Name:** _____
If not, why not? _____

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/3

Whaling today?	Yes	If not, why not?	
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Time departed: 1729Time returned: 2011

Trip time of 2 hours 42 minutes, roundtrip of 21.9 miles, furthest point from Cross Island 5.5 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE – only area with conditions the boat could handle
Time spent actively scouting/# people looking:	3/2:42
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm. The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	
Other notes on sea conditions: Wave height not reported, but conditions rough			
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: BO1_090409.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09

Crew: Oyagak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/4

Whaling today? Yes **If not, why not?**

Time departed: 1700

Time returned: 2005

Trip time of 3 hours 05 minutes, roundtrip of 30.7 miles, furthest point from Cross Island 7.3 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE – in same general area as BO1
Time spent actively scouting/# people looking:	4/3:05
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm.

The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes **GPS Track Name:** BO2_090409.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/3

Whaling today? Yes If not, why not?

Time departed: 1711 Time returned: 2112

Trip time of 4 hours 01 minutes, roundtrip of 42.5 miles, furthest point from Cross Island 12.6 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IP1_090409A	N70.6 W147.82	1803	Track or reference point
IP1_090409B	N70.56 W147.8	1811	Track or reference point
IP1_090409C	N70.65 W148.03	1955	Whale seen only once

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE – ended up N of Cross Island
Time spent actively scouting/# people looking:	3/4:01
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm.	
The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: IP1_090409.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09Crew: IpalookGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3

Whaling today?	Yes	If not, why not?	
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Time departed: 1706Time returned: 2105

Trip time of 3 hours 59 minutes, roundtrip of 49.8 miles, furthest point from Cross Island 13.2 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE – ended up N of Cross Island
Time spent actively scouting/# people looking:	3/4:01
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm.</p> <p>The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	
Other notes on sea conditions: Wave height not reported, but conditions rough			
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: IP2_090409.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09Crew: NukapigakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/4

Whaling today?	Yes	If not, why not?	
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Time departed: 1726Time returned: 2104

Trip time of 3 hours 38 minutes, roundtrip of 36.1 miles, furthest point from Cross Island 11.5 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk1_090409A	N70.51 W147.75	1802	Whale sighting

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	E – then NW and ended up N of Cross Island
Time spent actively scouting/# people looking:	4/3:38
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm.

The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other notes on sea conditions:	Wave height not reported, but conditions rough
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

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GPS track? Yes GPS Track Name: NUK1_090409.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Scouting w/3

Whaling today? Yes If not, why not?

Time departed: 1710

Time returned: 2058

Trip time of 3 hours 48 minutes, roundtrip of ?? miles, furthest point from Cross Island ?? miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Unknown – probably E or NE
Time spent actively scouting/# people looking:	3/3:48
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm. The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

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GPS track? No GPS Track Name:

If not, why not? Very partial track (boat captain prefers GPS V, which has a less sensitive antenna)

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/4

Whaling today?	Yes	If not, why not?	

Time departed: 1720

Time returned: 2044

Trip time of 3 hours 24 minutes, roundtrip of 22.9 miles, furthest point from Cross Island 6.9 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk3_090409A	N70.56 W148.11	1805	Whale first seen by NUK3 (?)
nuk3_090409B	N70.56 W148.08	1809	Whale seen only once (estimated position?)
NUK3_090409C	N70.56 W148.03	1811	Track or reference point

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NW (different from other boats – to search a different area)
Time spent actively scouting/# people looking:	4/3:24
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm.</p> <p>The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: NUK3_090409.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 1 (TAL1)	AL	24	Yamaha 250	Scouting w/5

Whaling today? Yes If not, why not?

Time departed: 1721

Time returned: 2104

Trip time of 3 hours 43 minutes, roundtrip of 42.6 miles, furthest point from Cross Island 12.1 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE – then NW and ended up N of Cross Island
Time spent actively scouting/# people looking:	5/3:43
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm.

The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	NA	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? Yes **GPS Track Name:** TAL1_090409.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/04/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 2 (TAL2)	AL	20	Yamaha 115	Scouting w/3

Whaling today? Yes **If not, why not?**

Time departed: 1758

Time returned: 2103

Trip time of 3 hours 05 minutes, roundtrip of 33.1 miles, furthest point from Cross Island 12.0 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal2_090409A	N70.61 W148.13	1925	Reported as "something black" but not confirmed as a sighting

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N, then NW, then NE to end up N of Cross Island
Time spent actively scouting/# people looking:	3/3:05
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: Conditions for most of the day precluded scouting, due to high winds. In the late afternoon the winds abated and at least one boat was scouting between 5:00pm and 9:12pm, with individual boat trips ranging from 2 hours 42 minutes to four hours 1 minute. Most boats left Cross Island between 5pm and 5:30. BO1, BO2, IP1, IP2, and TAL1 headed NE. NUK1 headed almost due east. NUK3 headed NW. TAL2 did not leave Cross Island until about 6pm and headed north (towards NUK3). There were three primary sightings that influenced where other boats went – nuk1_090409a east of Cross Island at about 6:02pm, nuk3_090409a NW of Cross Island (maybe first seen about 6:05pm, but reported over the radio about 6:09pm), and IP1_090409c north of Cross Island at about 7:55pm.

The NUK1 boat headed east, saw the first whale of the day (or a blow) but probably only saw it once. The BO1, BO2, IP1, IP2, and TAL1 boats that had headed NE from Cross Island all turned towards the NUK1 boat when it spotted a whale (nuk1_090409a). The IP1 and IP2 boats broke off to the NW and NUK3 when that whale (nuk3_090409b) was spotted. BO1, BO2, and TAL1 continued to the area of NUK1 but never saw that whale. NUK1 and TAL1 then scouted in a NW direction until about 7:25 when TAL2 spotted "something black" to the NW of them and TAL1 responded by traveling there at high speed while NUK1 continued at scouting speed. BO1 scouted in the area east of Cross Island a bit more, and decided to head back to Cross Island about 7:50pm due to conditions being marginal for the BO1 boat. The BO2 boat headed back to Cross Island when BO1 did. NUK3 had headed NW from Cross Island and saw two blows, and a little after that a whale about 4.7 miles from Cross Island (nuk3_090409b). This whale was also seen only once. The boats in this area then dispersed to the north, with TAL2 being the most western and reporting a sighting about 7:25 (tal2_090409a). This was not a definitive sighting and nothing more was seen. About 7:55pm IP1 saw a whale (IP1_090409c) and the TAL1 and TAL2 boats helped search the area, but again the whale was seen only once.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Windy and wet
Wind Direction:	Westerly	Wind speed and other notes:	37 to 3 mph, lowest in afternoon
% Ice Coverage:	0	Ice Type: NA	Other Notes:
Wave Height:	NA	Other notes on sea conditions:	Wave height not reported, but conditions rough
Other pertinent notes: Wind primarily westerly, shifty during period of low wind in the afternoon			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? Yes GPS Track Name: TAL2_090409.gdb

If not, why not?	
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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/05/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Onshore (weather)
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Onshore (weather)
Aqarguin (IAN)	AL	22	Yamaha 225	Onshore (weather)
Ipalook 1 (IP1)	FG	18	Honda 150	Onshore (weather)
Ipalook 2 (IP2)	FG	21	Yamaha 200	Onshore (weather)
Napageak (NAP)	FG	21	Honda 225	Disabled – also weather
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Onshore (weather)
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore (weather)
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Onshore (weather)
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore (weather)
Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore (weather)

Whaling today?	No	If not, why not?	Weather and sea state precluded scouting
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Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Windy all day, seas look rough all day
Wind Direction:	W to N	Wind speed and other notes:	8 to 24 mph, BP 29.85 and falling
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	
Other pertinent notes: Wind very shifty late in the day (when wind speed declining)			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? NA GPS Track Name:

If not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09

Crew: various

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	disabled

Whaling today? No If not, why not? NAP boat disabled

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Time departed: NA

Time returned: NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Conditions marginal most of the day. Two boats stayed out most of the day, but most boats made a short (or no) morning trip, and then came in and waited for better conditions in the evening.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? NA GPS Track Name:

If not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/4

Whaling today?	Yes	If not, why not?	
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Time departed: 1650Time returned: 2150

Trip time of 5 hours 00 minutes, roundtrip of 45.8 miles, furthest point from Cross Island 14.7 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO1_090609A	N70.58 W147.59	2024	Following whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	ENE, and then helping with whale
Time spent actively scouting/# people looking:	4/5:00
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: Conditions were marginal for scouting, but ten boats did scout for at least part of the day. Two boats, IP1 and IP2, essentially stayed out all day – 16.5 and 17.5 hours (although IP2 did make a very brief stop back at Cross Island to drop off a crew member and pick up a replacement). Two boats, BO1 and BO2, only scouted in the evening – about 5pm to 10pm or so (conditions in the morning were too rough for them). One boat, NUK2, went out only in the morning (5:30am to 11:12am). The other five boats took two separate trips, one in the morning (leaving 5:30 to 6:22am and returning around noon) and one in the evening (leaving 5:10 to 7:12pm and returning around midnight or 1:00am the next day). A few whales were seen, but not many, and a whale was struck late in the day but not landed. Since it was not found on subsequent days, it was recorded as a struck and lost whale.</p> <p>The BO boats both left Cross Island about 16:50pm and headed ENE at scouting speed – probably towards the IP boats. They did not report any sightings and turned back east when TAL1 reported a whale sighting. The BO2 boat is in the area and saw the whale to the east at 8:11pm (bo2_090609a). The two BO boats, the two TAL boats, and IP2 were in close proximity at this stage of the chase, and the IP2 boat soon joined them. From the GPS tracks they followed the whale south (tal1_090609d, about 8:19pm), ENE (BO1_090609a, about 8:24pm), and then north (BO2_090609a, about 8:31pm, marked by IP1 as IP1_090609e). About 8:56 one of the BO boats (probably BO2) spotted the whale from bo2_090609c and traveled at high speed to bo2_090609c' (about 8:57pm and .4 miles). All the other boats followed after the BO boats. Probably about 8:59 a crew member on BO1 was injured and BO1 dropped out of the chase to take him back to Cross Island. BO1, and all other boats, were ready to strike should the chance arise. BO1 was the first boat in the area, since BO2 had slowed to scout near bo2_090609c', and may have been in a position to strike when a crew member was injured and both BO boats returned to Cross Island.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: BO1_090609.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09 **Crew:** Oyagak **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/4

Whaling today?	Yes	If not, why not?	
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Time departed: 1650

Time returned: 2224

Trip time of 5 hours 34 minutes, roundtrip of 47.1 miles, furthest point from Cross Island 15.3 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO2_090609B	N70.59 W147.58	2032	Coordinates for whale seen by TAL1 from BO2
BO2_090609C	N70.59 W147.58	2056	Resighting of whale
BO2_090609D	N70.59 W147.59	2057	Track or reference point
bo2_090609A	N70.58 W147.62	2011	BO2 saw whale to the east (resighting)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	ENE, and then helping with whale
Time spent actively scouting/# people looking:	4/5:34
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: Conditions were marginal for scouting, but ten boats did scout for at least part of the day. Two boats, IP1 and IP2, essentially stayed out all day – 16.5 and 17.5 hours (although IP2 did make a very brief stop back at Cross Island to drop off a crew member and pick up a replacement). Two boats, BO1 and BO2, only scouted in the evening – about 5pm to 10pm or so (conditions in the morning were too rough for them). One boat, NUK2, went out only in the morning (5:30am to 11:12am). The other five boats took two separate trips, one in the morning (leaving 5:30 to 6:22am and returning around noon) and one in the evening (leaving 5:10 to 7:12pm and returning around midnight or 1:00am the next day). A few whales were seen, but not many, and a whale was struck late in the day but not landed. Since it was not found on subsequent days, it was recorded as a struck and lost whale.

The BO boats both left Cross Island about 16:50pm and headed ENE at scouting speed – probably towards the IP boats. They did not report any sightings and turned back east when TAL1 reported a whale sighting. The BO2 boat is in the area and saw the whale to the east at 8:11pm (bo2_090609a). The two BO boats, the two TAL boats, and IP2 were in close proximity at this stage of the chase, and the IP2 boat soon joined them. From the GPS tracks they followed the whale south (tal1_090609d, about 8:19pm), ENE (BO1_090609a, about 8:24pm), and then north (BO2_090609a, about 8:31pm, marked by IP1 as IP1_090609e). About 8:56 one of the BO boats (probably BO2) spotted the whale from bo2_090609c and traveled at high speed to bo2_090609c' (about 8:57pm and .4 miles). All the other boats followed after the BO boats. Probably about 8:59 a crew member on BO1 was injured and BO1 dropped out of the chase to take him back to Cross Island. BO1, and all other boats, were ready to strike should the chance arise. BO1 was the first boat in the area, since BO2 had slowed to scout near bo2_090609c', and may have been in a position to strike when a crew member was injured and both BO boats returned to Cross Island.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other notes on sea conditions:	Wave height not reported, but conditions rough
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?	No	If yes, describe below
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GPS track? Yes **GPS Track Name:** BO2_090609.gdb

If not, why not? *Use Reverse For Additional Notes or Information*

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09Crew: AqarguinGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5, w/4 for 2 nd trip

Whaling today?	Yes	If not, why not?	<input type="text"/>
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Time departed: 0552/1710Time returned: 1146/2340

First trip time of 5 hours 54 minutes, roundtrip of ?? miles, furthest point from Cross Island ?? miles

Second trip time of 6 hours 30 minutes, roundtrip of ?? miles, furthest point from Cross Island ?? miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IAN_090609A	N70.57 W147.78	2014	IAN coordinates for a whale sighting

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Probably E or NE
Time spent actively scouting/# people looking:	5/5:54, then 4/6:30
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: Conditions were marginal for scouting, but ten boats did scout for at least part of the day. Two boats, IP1 and IP2, essentially stayed out all day – 16.5 and 17.5 hours (although IP2 did make a very brief stop back at Cross Island to drop off a crew member and pick up a replacement). Two boats, BO1 and BO2, only scouted in the evening – about 5pm to 10pm or so (conditions in the morning were too rough for them). One boat, NUK2, went out only in the morning (5:30am to 11:12am). The other five boats took two separate trips, one in the morning (leaving 5:30 to 6:22am and returning around noon) and one in the evening (leaving 5:10 to 7:12pm and returning around midnight or 1:00am the next day). A few whales were seen, but not many, and a whale was struck late in the day but not landed. Since it was not found on subsequent days, it was recorded as a struck and lost whale.</p> <p>No track was collected for the IAN boat. It is likely that the NUK boat tracks are good proxies for the IAN track, at least for 9/06/09.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? No GPS Track Name:

If not, why not? Refusal

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09Crew: IpalookGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/3
Whaling today?		Yes	If not, why not?	

Time departed: 0720Time returned: "24:43"

Trip time of 17 hours 23 minutes, roundtrip of 114.0 miles, furthest point from Cross Island 22.8 miles

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip_090609A	N70.62 W147.83	1119	IP1 and IP2 boats meet
ip1_090609B	N70.56 W147.73	1411	Possible sighting, but not reported as such
ip1_090609B'	N70.55 W147.79	1417	Slowed in area of possible sighting, no report of sighting
ip1_090609C	N70.6 W147.79	1512	Possible sighting (slow speed) but no report of sighting
IP1_090609D	N70.64 W147.48	1648	Marked point, probably whale sighting
ip1_090609E	N70.59 W147.58	2031	Following whale
IP1_090609F	N70.6 W147.64	2121	Track or reference point
IP1_090609G	N70.6 W147.63	2204	First float came off whale
IP1_090609H	N70.61 W147.65	2234	Track or reference point
IP1_090609I	N70.61 W147.64	2304	Marked as location where NUK3 tried to put another float on
IP1_090609J	N70.61 W147.64	2307	Marked as location where float came off
IP1_090609K	N70.61 W147.64	2325	Listening for the whale in the dark
IP1_090609L	N70.61 W147.64	2338	Last marked location for the whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	S, then E and eventually N
Time spent actively scouting/# people looking:	3/17:23
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: The Ipalook boats (IP1 and IP2) left Cross Island at 7:20am and 7:03am respectively and were the only boats to essentially stay out scouting most of the day. They headed south and then east from Cross Island. About 8:35am IP1 turned north towards NUK3 and the other boats and IP2 returned to Cross Island by going NE (to drop off an ailing crew member and pick up a replacement). IP2 then rejoined IP1. IP2 met up with IP1 about 11:19am (ip_090609a). IP1 had changed course slightly to the west to meet IP2 and had been maintaining a fast scouting speed. Both boats slowed to scout slowly about 11:31am (ip2_090609b) and IP2 reported seeing a walrus. IP2 reported seeing many whale birds about 12:09pm (ip2_090609c) and repeated the observation about 12:12pm (ip2_090609d) and slowed to search the area (as did IP1). Both then resumed scouting to the east and south, and then eventually back west. IP1 may have seen something about 2:11pm (ip1_090609b) as they (and IP2) went to high speed and both slowed to scouting speed about 2:17pm (ip1_090609b'). Neither boat reported a sighting. They continued west until about 3:35pm and then headed north again. About 3:12pm IP1 slowed to less than 1 mph (ip1_090609c) and IP2 changed course and went to high speed to meet it about 3:16pm. They scouted at less than 1 mph heading east until about 3:29, at which point they resumed a higher scouting speed (6-8 mph), still heading east. About 3:41pm IP1 remarked (over the radio) that it was getting calmer, and this may have influenced the decision of other crews to try scouting in the evening. They proceeded to the east until about 4:46pm, when they turned to the NW and scouted an area of approximately 4 square miles for about an hour. IP1 marked a point about 4:48pm (IP1_090609d) that probably represents a whale sighting. While scouting this area IP1 talked with the BO crew (on Cross Island) and they agreed to scout together in the direction of Narwhal Island. Thus, about 1800 the IP boats headed SE at scouting speed towards Narwhal and Pole Islands. They only turned east about 7:42pm when TAL1 reported seeing a whale (tal1_090609a). They had no other reported sightings before turning east, and all subsequent points pertained to the chase of the whale spotted by TAL1.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: IP1_090609.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0703/0920

Time returned: 0920/2330

First trip time of 2 hours 17 minutes, roundtrip of 21.3 miles, furthest point from Cross Island 7.3 miles

Second trip time of 14 hours 10 minutes, roundtrip of 120.0 miles, furthest point from Cross Island 21.7 miles

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip_090609A	N70.62 W147.83	1119	IP1 and IP2 boats meet
ip2_090609B	N70.65 W147.78	1121	Slow to scouting speed, report a walrus
ip2_090609C	N70.64 W147.68	1209	Whalebirds reported
ip2_090609D	N70.64 W147.67	1212	Whalebirds reported

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	S, then E and back to Cross Island, then NE to rejoin IP1
Time spent actively scouting/# people looking:	3/16:27
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: The Ipalook boats (IP1 and IP2) left Cross Island at 7:20am and 7:03am respectively and were the only boats to essentially stay out scouting most of the day. They headed south and then east from Cross Island. About 8:35am IP1 turned north towards NUK3 and the other boats and IP2 returned to Cross Island by going NE (to drop off an ailing crew member and pick up a replacement). IP2 then rejoined IP1. IP2 met up with IP1 about 11:19am (ip_090609a). IP1 had changed course slightly to the west to meet IP2 and had been maintaining a fast scouting speed. Both boats slowed to scout slowly about 11:31am (ip2_090609b) and IP2 reported seeing a walrus. IP2 reported seeing many whale birds about 12:09pm (ip2_090609c) and repeated the observation about 12:12pm (ip2_090609d) and slowed to search the area (as did IP1). Both then resumed scouting to the east and south, and then eventually back west. IP1 may have seen something about 2:11pm (ip1_090609b) as they (and IP2) went to high speed and both slowed to scouting speed about 2:17pm (ip1_090609b'). Neither boat reported a sighting. They continued west until about 3:35pm and then headed north again. About 3:12pm IP1 slowed to less than 1 mph (ip1_090609c) and IP2 changed course and went to high speed to meet it about 3:16pm. They scouted at less than 1 mph heading east until about 3:29, at which point they resumed a higher scouting speed (6-8 mph), still heading east. About 3:41pm IP1 remarked (over the radio) that it was getting calmer, and this may have influenced the decision of other crews to try scouting in the evening. They proceeded to the east until about 4:46pm, when they turned to the NW and scouted an area of approximately 4 square miles for about an hour. IP1 marked a point about 4:48pm (IP1_090609d) that probably represents a whale sighting. While scouting this area IP1 talked with the BO crew (on Cross Island) and they agreed to scout together in the direction of Narwhal Island. Thus, about 1800 the IP boats headed SE at scouting speed towards Narwhal and Pole Islands. They only turned east about 7:42pm when TAL1 reported seeing a whale (tal1_090609a). They had no other reported sightings before turning east, and all subsequent points pertained to the chase of the whale spotted by TAL1.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other notes on sea conditions:	Wave height not reported, but conditions rough
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes	GPS Track Name: IP2_090609a.gdb, IP2_090609b.gdb
If not, why not?	

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09 **Crew:** Nukapigak **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0533/1912 **Time returned:** 1228/"2503"

First trip time of 6 hours 55 minutes, roundtrip of ?? miles, furthest point from Cross Island ?? miles
Second trip time of 5 hours 51 minutes, roundtrip of 53.2 miles, furthest point from Cross Island 12.4 miles

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk1_090609A	N70.59 W147.63	2127	Chase event - preparing to use shoulder gun

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N & then east (probably) in morning, NW then SE in evening
Time spent actively scouting/# people looking:	3/12:46
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: The NUK crew (NUK1, NUK2, NUK3) was the first crew to leave Cross Island, at 5:33am. The IAN boat left about 5:52am. Only the evening track from 7:11pm for NUK1 was obtained. NUK2 only went out in the morning. Complete tracks for NUK3 were obtained. In the morning, these boats went north, then east and SE, then back NW, west, and back south or SE to Cross Island. The farthest they went from Cross Island was about 8.4 miles. NUK3 reported a whale about 7:50am (NUK3_090609a). NUK3 reported this sighting as 4.5 miles from Cross Island to the Communications Center, but they were probably about 6.1 miles from Cross Island at 7:50. When they slowed down where they estimated that the whale they had seen had been when they spotted it (nuk3_090609a' at 7:57), they were 4.6 miles from Cross Island. This whale does not seem to have been followed for any great distance or time. After scouting in this area all NUK boats headed back to Cross Island at scouting speed. NUK2 used higher speeds than the other two boats and arrived at Cross Island about 11:12am, The other two boats arrived at 12:14pm and 12:28.

NUK2 did not go out scouting in the evening, probably thinking conditions were somewhat marginal. NUK1 and NUK3 left Cross Island to go scouting at 1912. They headed NW and had just slowed to scouting speed (and seen a large bearded seal about 1938pm, nuk3_090609b) when they headed NE at high speed about 7:42pm – apparently in response to another set of coordinates TAL1 sighting a whale. This may have been in response to some sighting by the IAN boat, however, as about 2014pm both NUK1 and NUK3 changed course to the SW towards coordinates from the IAN boat (IAN_090609a). They briefly searched this area from about 2030pm-2034pm. They left at high speed towards the east where the other boats were all chasing the whale first seen by TAL1 at 1945pm. These coordinates seem to have been obtained from BO2 at 2031pm (BO2_090609b), although the TAL1 boat was the closest to this position (tal1_090609f). BO1 was the first boat in the area, since BO2 had slowed to scout near bo2_090609c'. The next nearest boats were IAN (who spotted the whale at 9:07pm) and NUK3 (nuk3_090609c) and NUK1. NUK3 sped up at from his location at 9:07pm, slowed and changed direction about 9:09pm (nuk3_090609d), and struck the whale at 9:11pm (nuk3_090609e). Subsequent points document various points in the chase and eventual loss of this whale.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: NUK1_090609b.gdb(missing NUK1_090609a.gdb)

If not, why not? GPS not turned on for the morning trip

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0533

Time returned: 1112

Trip time of 5 hours 39 minutes, roundtrip of 46.8 miles, furthest point from Cross Island 8.4 miles

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	North, then East
Time spent actively scouting/# people looking:	3/5:39
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: The NUK crew (NUK1, NUK2, NUK3) was the first crew to leave Cross Island, at 5:33am. The IAN boat left about 5:52am. Only the evening track from 7:11pm for NUK1 was obtained. NUK2 only went out in the morning. Complete tracks for NUK3 were obtained. In the morning, these boats went north, then east and SE, then back NW, west, and back south or SE to Cross Island. The farthest they went from Cross Island was about 8.4 miles. NUK3 reported a whale about 7:50am (NUK3_090609a). NUK3 reported this sighting as 4.5 miles from Cross Island to the Communications Center, but they were probably about 6.1 miles from Cross Island at 7:50. When they slowed down where they estimated that the whale they had seen had been when they spotted it (nuk3_090609a' at 7:57), they were 4.6 miles from Cross Island. This whale does not seem to have been followed for any great distance or time. After scouting in this area all NUK boats headed back to Cross Island at scouting speed. NUK2 used higher speeds than the other two boats and arrived at Cross Island about 11:12am, The other two boats arrived at 12:14pm and 12:28. NUK2 did not go out scouting in the evening, probably thinking conditions were somewhat marginal.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: NUK2_090609.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/3, then w/4 in evening

Whaling today?	Yes	If not, why not?
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Time departed: 0533/1912

Time returned: 1214/2500

First trip time of 6 hours 41 minutes, roundtrip of 43.3 miles, furthest point from Cross Island 7.1 miles

Second trip time of 5 hours 48 minutes, roundtrip of 53.2 miles, furthest point from Cross Island 12.7 miles

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NUK3_090609A	N70.55 W147.79	750	NUK3 position when whale sighted
nuk3_090609A'	N70.53 W147.82	757	Estimated position of whale sighted @ 7:50, not resighted
nuk3_090609C	N70.59 W147.63	2107	Near whale
nuk3_090609D	N70.59 W147.63	2109	Change of direction towards whale
nuk3_090609E	N70.6 W147.63	2111	Strike on whale
nuk3_090609F	N70.6 W147.62	2144	Still tracking whale
nuk3_090609G	N70.6 W147.63	2203	Float came off whale
nuk3_090609H	N70.61 W147.63	2231	NUK3 heard the whale blow
nuk3_090609I	N70.61 W147.63	2259	NUK3 saw whale behind their boat
nuk3_090609J	N70.61 W147.64	2301	NUK3 tried to put another float on the whale
nuk3_090609K	N70.61 W147.64	2308	NUK3 report that the float had come off (or they had missed)
nuk3_090609B	N70.53 W148.13	1938	Large bearded seal reported

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N & then east (probably) in morning, NW then SE in evening
Time spent actively scouting/# people looking:	3/12:46
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: The NUK crew (NUK1, NUK2, NUK3) was the first crew to leave Cross Island, at 5:33am. The IAN boat left about 5:52am. Only the evening track from 7:11pm for NUK1 was obtained. NUK2 only went out in the morning. Complete tracks for NUK3 were obtained. In the morning, these boats went north, then east and SE, then back NW, west, and back south or SE to Cross Island. The farthest they went from Cross Island was about 8.4 miles. NUK3 reported a whale about 7:50am (NUK3_090609a). NUK3 reported this sighting as 4.5 miles from Cross Island to the Communications Center, but they were probably about 6.1 miles from Cross Island at 7:50. When they slowed down where they estimated that the whale they had seen had been when they spotted it (nuk3_090609a' at 7:57), they were 4.6 miles from Cross Island. This whale does not seem to have been followed for any great distance or time. After scouting in this area all NUK boats headed back to Cross Island at scouting speed. NUK2 arrived at Cross Island about 11:12am, The other two boats arrived at 12:14pm and 12:28.

NUK2 did not go out scouting in the evening, probably thinking conditions were somewhat marginal. NUK1 and NUK3 left Cross Island to go scouting at 1912. They headed NW and had just slowed to scouting speed (and seen a large bearded seal about 1938pm, nuk3_090609b) when they headed NE at high speed about 7:42pm – apparently in response to another set of coordinates TAL1 sighting a whale. This may have been in response to some sighting by the IAN boat, however, as about 2014pm both NUK1 and NUK3 changed course to the SW towards coordinates from the IAN boat (IAN_090609a). They briefly searched this area from about 2030pm-2034pm. They left at high speed towards the east where the other boats were all chasing the whale first seen by TAL1 at 1945pm. These coordinates seem to have been obtained from BO2 at 2031pm (BO2_090609b), although the TAL1 boat was the closest to this position (tal1_090609f). BO1 was the first boat in the area, since BO2 had slowed to scout near bo2_090609c'. The next nearest boats were IAN (who spotted the whale at 9:07pm) and NUK3 (nuk3_090609c) and NUK1. NUK3 sped up at from his location at 9:07pm, slowed and changed direction about 9:09pm (nuk3_090609d), and struck the whale at 9:11pm (nuk3_090609e). Subsequent points document points in the chase and eventual loss of this whale.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	Wave height not reported, but conditions rough
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: NUK3_090609a.gdb, NUK3_090609b.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09 Crew: Taalak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 1 (TAL1)	AL	24	Yamaha 250	Scouting w/4 (both trips)
Whaling today?	Yes	If not, why not?		

Time departed: 0622/1807

Time returned: 1152/2341

First trip time of 5 hours 30 minutes, roundtrip of 34.7 miles, furthest point from Cross Island 7.5 miles

Second trip time of 5 hours 34 minutes, roundtrip of 55.1 miles, furthest point from Cross Island 12.9 miles

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal_090609C	N70.58 W147.59	1958	Whale resighted
tal1_090609A	N70.54 W147.58	1941	TAL1 position when they saw a whale or something
tal1_090609B	N70.56 W147.63	1945	Estimated position of whale seen @ 19:42
tal1_090609D	N70.57 W147.62	2019	Following whale
tal1_090609E	N70.59 W147.6	2034	Following whale
tal1_090609F	N70.59 W147.58	2042	Following whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NNE, then SE in morning, E then N in the evening
Time spent actively scouting/# people looking:	4/11:04
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: The TAL crew (TAL1 and TAL2) left Cross Island about 6:22am and headed north. About 7:00am TAL2 reported that "something splashed over here" (tal2_090609a) and both searched SE and then north until about 7:30. Neither boat reported seeing a whale. They then continued SE at higher speed (8-12 mph) until 7:52, when NUK3 reported seeing a whale (estimated area of the sighting NUK3_090609a). They searched the area a bit and, maintaining scouting speed, then turned WNW towards where other boats had gone. TAL1 went further north than TAL2 and both started SW back to Cross Island about 11:00am and arrived back at Cross Island about noon.

The TAL boats left Cross Island in the evening about 6:07pm and 6:11pm, headed east. At about 1901 TAL2 "saw something black" and turned north (tal2_090609b) towards TAL1. Both boats searched the area but saw nothing, and then continued north. At 1941 TAL1 saw something (tal1_090609a). At 1945 there was a report of a whale going west. They had seen the dive and flukes, but no blow. This was attributed to TAL1 (tal1_090609b). The whale was next sighted at 1958, perhaps by IAN boat or a TAL boat. This point has been approximately placed at tal_090609c. The whale was seen again by TAL2 at 2004 (tal2_090609d) and by an unidentified boat at 2008. BO2 was in the area and saw the whale to the east at 2011 (bo2_090609a). The two BO boats, the two TAL boats, and IP2 were together at this stage of the chase. From the GPS tracks they followed the whale south (tal1_090609d, about 2019), ENE (BO1_090609a, about 2024), and then north (BO2_090609a, about 2031, marked by IP1 as IP1_090609e). They then headed at high speed to the SSW a little over half a mile (tal1_090609e, about 2034) and scouted this area for six or seven minutes, when they then headed back NNE about 1.2 miles (tal1_090609f, about 2043). Most of the boats (TAL1, TAL2, NUK1, NUK3, and IP2) fanned out and continued ENE to NE. IP1, BO1, and BO2 scouted close to tal1_090609f – IP1 to the north and the BO boats to the south. About 2056 one of the BO boats (probably BO2) spotted the whale from bo2_090609c and traveled at high speed to bo2_090609c' (about 2057 and .4 miles). BO1 was the first boat in the area, since BO2 had slowed to scout near bo2_090609c', and may have been in a position to strike when an accident occurred. The next nearest boats were IAN (who spotted the whale at 2107) and NUK3 (nuk3_090609c) and NUK1. NUK3 sped up at from his location at 2107, slowed and changed direction about 2109 (nuk3_090609d), and struck the whale at 2111 (nuk3_090609e). The TAL2 boat marked where they left the whale (TAL2_090609e, about 2224) before all the boats returned to Cross Island.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	
Other pertinent notes: Wind starts easterly, then a period of very shifty wind to more westerly to north			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below
 GPS track? Yes GPS Track Name: TAL1_090609a.gdb, TAL1_090609b.gdb
 If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/06/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 2 (TAL2)	AL	20	Yamaha 115	Scouting w/4 in morning, w/3 in afternoon
Whaling today?	Yes	If not, why not?		

Time departed: 0622/1811

Time returned: 1124/"2308"

First trip time of 5 hours 02 minutes, roundtrip of 33.4 miles, furthest point from Cross Island 6.6 miles

Second trip time of 5 hours 57 minutes, roundtrip of 45.9 miles, furthest point from Cross Island 12.2 miles

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal_090609C	N70.58 W147.59	1958	Whale resighted
tal2_090609A	N70.55 W147.9	700	"Something splashed over there" but no reported sighting
tal2_090609B	N70.49 W147.76	1901	TAL2 "saw something black" but made no sighting report
tal2_090609D	N70.58 W147.59	2004	Whale resighted
TAL2_090609E	N70.61 W147.64	2224	Marked by TAL2 as "last observed location of whale"

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NNE, then SE in morning, E then N in the evening
Time spent actively scouting/# people looking:	4/5:02, then 3/5:57
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: The TAL crew (TAL1 and TAL2) left Cross Island about 6:22am and headed north. About 7:00am TAL2 reported that "something splashed over here" (tal2_090609a) and both searched SE and then north until about 7:30. Neither boat reported seeing a whale. They then continued SE at higher speed (8-12 mph) until 7:52, when NUK3 reported seeing a whale (estimated area of the sighting NUK3_090609a). They searched the area a bit and, maintaining scouting speed, then turned WNW towards where other boats had gone. TAL1 went further north than TAL2 and both started SW back to Cross Island about 11:00am and arrived back at Cross Island about noon.

The TAL boats left Cross Island in the evening about 6:07pm and 6:11pm, headed east. At about 1901 TAL2 "saw something black" and turned north (tal2_090609b) towards TAL1. Both boats searched the area but saw nothing, and then continued north. At 1941 TAL1 saw something (tal1_090609a). At 1945 there was a report of a whale going west. They had seen the dive and flukes, but no blow. This was attributed to TAL1 (tal1_090609b). The whale was next sighted at 1958, perhaps by IAN boat or a TAL boat. This point has been approximately placed at tal_090609c. The whale was seen again by TAL2 at 2004 (tal2_090609d) and by an unidentified boat at 2008. BO2 was in the area and saw the whale to the east at 2011 (bo2_090609a). The two BO boats, the two TAL boats, and IP2 were together at this stage of the chase. From the GPS tracks they followed the whale south (tal1_090609d, about 2019), ENE (BO1_090609a, about 2024), and then north (BO2_090609a, about 2031, marked by IP1 as IP1_090609e). They then headed at high speed to the SSW a little over half a mile (tal1_090609e, about 2034) and scouted this area for six or seven minutes, when they then headed back NNE about 1.2 miles (tal1_090609f, about 2043). Most of the boats (TAL1, TAL2, NUK1, NUK3, and IP2) fanned out and continued ENE to NE. IP1, BO1, and BO2 scouted close to tal1_090609f – IP1 to the north and the BO boats to the south. About 2056 one of the BO boats (probably BO2) spotted the whale from bo2_090609c and traveled at high speed to bo2_090609c' (about 2057 and .4 miles). BO1 was the first boat in the area, since BO2 had slowed to scout near bo2_090609c', and may have been in a position to strike when an accident occurred. The next nearest boats were IAN (who spotted the whale at 2107) and NUK3 (nuk3_090609c) and NUK1. NUK3 sped up at from his location at 2107, slowed and changed direction about 2109 (nuk3_090609d), and struck the whale at 2111 (nuk3_090609e). The TAL2 boat marked where they left the whale (TAL2_090609e, about 2224) before all the boats returned to Cross Island.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	Rainy and snowy, wind lessens in the evening
Wind Direction:	Shifty	Wind speed and other notes:	2 to 13 mph, lowest in evening
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	rough	Other Notes:	
Other pertinent notes:	Wind starts easterly, then a period of very shifty wind to more westerly to north		

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? Yes **GPS Track Name:** TAL2_090609a.gdb, TAL2_090609b.gdb

If not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09 **Crew:** various **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	Onshore – disabled
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore – waiting for crew members

Whaling today? No **If not, why not?** NAP disabled, NUK2 may have been short of crew

Time departed: NA **Time returned:** NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	
Other notes on sea conditions:	<u>NA</u>		

Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? NA **GPS Track Name:**

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/4
Whaling today?	Yes	If not, why not?		

Time departed: 0845Time returned: 1514

Trip time of 6 hours 29 minutes, roundtrip of 40.4 miles, furthest point from Cross Island 12.8 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO1_090709B	N70.51 W147.48	1248	Resighting of whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE and then E
Time spent actively scouting/# people looking:	4/6:29
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale – BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	
Other notes on sea conditions:			

Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: BO1_090709.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0843Time returned: 1509

Trip time of 6 hours 26 minutes, roundtrip of 41.9 miles, furthest point from Cross Island 15.4 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO2_090709A	N70.52 W147.44	1224	Whale sighting
bo2_090709A'	N70.52 W147.44	1224	Actual area BO2 slowed to look for whale
BO2_090709B	N70.52 W147.46	1234	Resighting of whale
bo2_090709C	N70.52 W147.47	1242	Resighting of whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE and then E
Time spent actively scouting/# people looking:	3/6:26
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale – BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	
Other notes on sea conditions:			

Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes	GPS Track Name: BO2_090709.gdb
If not, why not?	

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 Use one form for each vessel/day

Date: 09/07/09 Crew: Aqarguin GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5
Whaling today?	Yes	If not, why not?		

Time departed: 0725 Time returned: 1528

Trip time of 8 hours 03 minutes, roundtrip of ?? miles, furthest point from Cross Island ?? miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Likely NE to look for whale struck 9/06/09
Time spent actively scouting/# people looking:	5/8:03
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale – BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	
Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? No GPS Track Name:

If not, why not? Refusal

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09

Crew: Ipalook

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0906

Time returned: 1539

Trip time of 6 hours 33 minutes, roundtrip of 46.2 miles, furthest point from Cross Island 13.0 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE to look for whale struck 9/06/09
Time spent actively scouting/# people looking:	3/6:33
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale - BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	
Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still			

high enough so that boats without deep “V” hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as “rough” and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? Yes **GPS Track Name:** IP1_090709.gdb
If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 Use one form for each vessel/day

Date: 09/07/09 **Crew:** Ipalook **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0922 **Time returned:** 1537

Trip time of 6 hours 15 minutes, roundtrip of 52.5 miles, furthest point from Cross Island 16.3 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE to look for whale struck 9/06/09
Time spent actively scouting/# people looking:	3/6:15
Time spent in travel/tow/assistance to other boats/on “break”:	NA

Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or “down current” from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the “northern boats.” NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the “northern boats” boats responded by changing direction and heading to that area. There were several repeat observations of the whale – BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
		Other Notes:	

Wave Height:	up to 5'	Other notes on sea conditions:	
Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?	No	If yes, describe below
GPS track? Yes	GPS Track Name: IP2_090709.gdb	
If not, why not?		

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0806

Time returned: 1539

Trip time of 7 hours 33 minutes, roundtrip of 52.8 miles, furthest point from Cross Island 14.3 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NUK1_090709A	N70.52 W147.52	1355	Possible whale sighting, not confirmed

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE to look for whale struck 9/06/09
Time spent actively scouting/# people looking:	3/7:33
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale - BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
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Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other notes on sea conditions:	
Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).			
Note: Cross Island weather observations are compiled in a separate file (weather station + observer)			
Engaged in any other subsistence activities?		No	If yes, describe below
GPS track? Yes GPS Track Name: NUK1_090709.gdb			
If not, why not?			

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/4
Whaling today?	Yes	If not, why not?		

Time departed: 0804

Time returned: 1537

Trip time of 7 hours 33 minutes, roundtrip of 62.0 miles, furthest point from Cross Island 16.0 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NUK3_090709A	N70.65 W147.74	1219	Marked point, possibly whale traveling east
nuk3_090709B	N70.61 W147.65	NA	Point used by NUK3 as last position of struck whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE to look for whale struck 9/06/09
Time spent actively scouting/# people looking:	3/7:33
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale – BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	

Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? Yes **GPS Track Name:** NUK3_090709a.gdb (NUK3_090709b.gdb was a trip to West Dock)

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 1 (TAL1)	AL	24	Yamaha 250	Scouting w/5
Whaling today?	Yes	If not, why not?		

Time departed: 0917

Time returned: 1526

Trip time of 6 hours 09 minutes, roundtrip of 75.9 miles, furthest point from Cross Island 24.3 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	Generally East with the BO boats
Time spent actively scouting/# people looking:	5/6:09
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2,

TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale – BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	
Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? Yes **GPS Track Name:** TAL1_090709a.gdb (TAL1_090709b.gdb was a trip to West Dock)

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/07/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 2 (TAL2)	AL	20	Yamaha 115	Scouting w/4
Whaling today?	Yes	If not, why not?		

Time departed: 0918

Time returned: 1528

Trip time of 6 hours 10 minutes, roundtrip of 51.9 miles, furthest point from Cross Island 12.4 miles

Waypoints or Coordinates noted

Waypoint#	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	North , and then SE to join the other boats
Time spent actively scouting/# people looking:	4/6:10

Time spent in travel/tow/assistance to other boats/on "break": NA

Notes: Nine boats went scouting. IAN left at 7:25am, NUK1 and NUK3 about 8:05am, and NO1, BO2, IP1, IP2, TAL1, and TAL2 between 8:43am and 9:22am. All returned to Cross Island between 3:09pm and 3:39, an indication that there was consensus that they were not seeing many whales and that conditions were not favorable. Some crews also wanted to make logistical trips to West Dock. NUK1, NUK3, IP1, IP2, and most likely IAN all headed NE from Cross Island, to the approximate location of where they had left the whale struck on 9/06 (TAL2_090609e, nuk3_090709a). TAL2 headed north. BO1, BO2, and TAL1 headed east. The boats that looked for the whale struck yesterday did not see it, but did encounter an oily sheen on the water, which they said often indicated where a whale had been struck or "down current" from such a strike. They also reported a strong smell of whale in the area of the strike. By 10:46pm, these boats had left that area. TAL1 went much further east (to an area north of Pole Island) than the BO boats (which remained north of Narwhal Island). TAL1 then circled north and west and was then in the general area of the "northern boats." NUK3 marked a point about 12:19 and may have seen a whale traveling east, but did not report it to the researcher (NUK3_090709a). When BO2 sighted a whale to the SE (BO2_090709a, 12:24pm), all of the "northern boats" boats responded by changing direction and heading to that area. There were several repeat observations of the whale – BO2_090709b (12:35pm), bo2_090709c (12:42pm), and ip2_090709a (12:54pm). The boats remained in the area at slow scouting speed until 1:30pm (and some boats a bit later). All boats were heading east towards Cross Island by 1:23pm, but maintained scouting speeds. About 1:55pm NUK1 evidently saw something (nuk1_090709b) and all boats responded by changing course and speed towards NUK1. This whale was not resighted (and there may have been some doubt about the initial sighting), and all boats resumed an eastward course towards Cross Island by 2:24pm (most by 2:15). There was general consensus that all sightings were of the same whale, going different directions at different times, and for most sightings only one boat (and sometimes only one person) saw it. Most boats maintained scouting speeds until between 3:00 to 3:30pm, and then sped up until they reached Cross Island.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Wind less than 10 mph when boats went out, then increased
Wind Direction:	East	Wind speed and other notes:	0 to 17 mph, BP 29.85 and rising
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	up to 5'	Other Notes:	
Other notes on sea conditions:			
Other pertinent notes: Conditions generally described as "good" when the boats went out, but swells were still high enough so that boats without deep "V" hulls had some difficulty near the island. Wind picked up throughout the day and in the afternoon some crews described the water as "rough" and the reason boats started back to Cross Island. Some said sea state was more dependent on water depth than wind speed (combination of swells and waves).			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? Yes **GPS Track Name:** TAL2_090709.gdb
If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 **Use one form for each vessel/day**

Date: 09/08/09 **Crew:** various **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Onshore (weather)
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Onshore (weather)
Aqarguin (IAN)	AL	22	Yamaha 225	Onshore (weather)
Ipalook 1 (IP1)	FG	18	Honda 150	Onshore (weather)
Ipalook 2 (IP2)	FG	21	Yamaha 200	Onshore (weather)
Napageak (NAP)	FG	21	Honda 225	Onshore (weather)
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Onshore (disabled and weather)
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore (weather)
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Onshore (weather)
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore (weather)

Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore (weather)
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Whaling today? No **If not, why not?** _____

Time departed: NA **Time returned:** NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	Pretty clear, but windy
Wind Direction:	East	Wind speed and other notes:	19 to 40 mph, BP 29.9 and falling
% Ice Coverage:	0	Ice Type: NA	Other Notes:
Wave Height:	NA	Other notes on sea conditions:	Very rough – but no boats went out
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? NA **GPS Track Name:**

If not, why not? _____

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/10/09 **Crew:** various **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Onshore (weather)
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Onshore (weather)
Aqarguin (IAN)	AL	22	Yamaha 225	Onshore (weather)
Ipalook 1 (IP1)	FG	18	Honda 150	Onshore (weather)
Napageak (NAP)	FG	21	Honda 225	Onshore (weather)
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Onshore (disabled and weather)
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Onshore (weather)
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Onshore (weather)
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore (weather)

Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore (weather)
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Whaling today? No **If not, why not?** _____

Time departed: NA **Time returned:** NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NA
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Fog	Weather notes:	Overcast and fog, windy much of the day
Wind Direction:	East	Wind speed and other notes:	29 to 0 mph, BP 29.62 and falling
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	4+ feet	Other notes on sea conditions:	Rough – at least 4 feet with swells
Other pertinent notes: Wind went from east to shifting late in the day. Only one boat went out scouting, as a sort of test. Another boat went to West Dock. Both reported rough conditions and neither reported any sightings.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? NA **GPS Track Name:** _____

If not, why not? _____

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09 Crew: various GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	disabled

Whaling today? No If not, why not? NAP boat disabled

Time departed: NA Time returned: NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
		Other Notes:	BP 29.45 and rising
Wave Height:	choppy	Other notes on sea conditions:	
Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? NA GPS Track Name:

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/4

Whaling today?	Yes	If not, why not?	
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Time departed: 0616Time returned: 1020

Trip time of 4 hours 04 minutes, roundtrip of 41.2 miles, furthest point from Cross Island of 12.0 miles

Waypoints or Coordinates noted

Way Point #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
bo1_091109A	N70.57 W147.66	727	Probable whale sighting
BO1_091109B	N70.57 W147.65	729	Where BO1 marked the whale sighting (confirmed)
bo1_091109C	N70.57 W147.7	804	Resighting of whale
BO1_091109D	N70.5 W147.48	854	BO1 marking of kill site

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE, then E, then S to help with TAL whale
Time spent actively scouting/# people looking:	4/4:04
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: BO1 and BO2 left Cross Island at about 6:18am and headed NE (probably to search a different area than the IAN and NUK1 boats). They turned to the east when NUK1 reported their sighting. About 7:23 both BO boats changed course to the SE and were headed more directly towards the NUK/TAL boats (although there were no recorded radio messages). BO1 saw a whale, probably about 7:27am (bo1_091109a) when they changed direction sharply to the east and BO2, to the east of them, turned around to join them. BO1 actually marked this sighting at BO1_091109b (7:29am), in the area where BO1 slowed down and where BO2 joined them and also slowed down to look for this whale. The BO boats scouted to the east from about 7:30am to 7:57am, when one of the BO boats saw the whale again to the west of them. Both boats increased speed about 7:58, with BO2 slowing first in the area of bo2_091109a (7:59am), which is the area where the BO crew located a point representing where they saw this whale the second time (bo1_091109c). They did not see this whale again, and continued west at "fast scouting speed" until about 8:05am, at which point they both increased speed and headed towards the TAL/NUK boats. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am (marked by BO1 as BO1_091109d). BO1 did not participate in the tow, due to the sea state conditions, and returned to Cross Island at "high speed" (but still only about 10 mph).</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	choppy	Other Notes:	BP 29.45 and rising
<p>Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.</p>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: BO1_091109.gdb

If not, why not? *Use Reverse For Additional Notes or Information*

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/4

Whaling today?	Yes	If not, why not?	<input type="text"/>
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Time departed: 0620Time returned: 1420

Trip time of 8 hours 00 minutes, roundtrip of 46.7 miles, furthest point from Cross Island of 12.5 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
bo2_091109A	N70.57 W147.7	759	Resighting of whale
BO2_091109B	N70.58 W147.54	819	Track or reference point?

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE, then E, then S to help with TAL whale and the tow
Time spent actively scouting/# people looking:	4/8:00
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: BO1 and BO2 left Cross Island at about 6:18am and headed NE (probably to search a different area than the IAN and NUK1 boats). They turned to the east when NUK1 reported their sighting. About 7:23 both BO boats changed course to the SE and were headed more directly towards the NUK/TAL boats (although there were no recorded radio messages). BO1 saw a whale, probably about 7:27am (bo1_091109a) when they changed direction sharply to the east and BO2, to the east of them, turned around to join them. BO1 actually marked this sighting at BO1_091109b (7:29am), in the area where BO1 slowed down and where BO2 joined them and also slowed down to look for this whale. The BO boats scouted to the east from about 7:30am to 7:57am, when one of the BO boats saw the whale again to the west of them. Both boats increased speed about 7:58, with BO2 slowing first in the area of bo2_091109a (7:59am), which is the area where the BO crew located a point representing where they saw this whale the second time (bo1_091109c). They did not see this whale again, and continued west at "fast scouting speed" until about 8:05am, at which point they both increased speed and headed towards the TAL/NUK boats. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am (marked by BO1 as BO1_091109d). BO1 did not participate in the tow, due to the sea state conditions, and returned to Cross Island at "high speed" (but still only about 10 mph).</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	choppy	Other Notes:	BP 29.45 and rising
<p>Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.</p>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: BO2_091109.gdb

If not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09 Crew: Aqarguin GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0555 Time returned: 1115

Trip time of 5 hours 20 minutes, roundtrip of ?? miles, furthest point from Cross Island of ?? miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	East
Time spent actively scouting/# people looking:	3/5:20
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: Ten boats went out scouting. Eight boats went out between 5:55am and 6:31am. The BO boats headed NW from Cross Island, while the TAL, NUK, and IAN boats headed east and then a bit north after they saw a whale. IP1 and IP2 were the last boats out at about 7:16am and 7:33am, in response to the BO boats seeing a whale NE of Cross Island and the TAL and NUK boats seeing a whale ENE of Cross Island. About 7:20am the NUK/TAL whale was probably seen going to the north (nuk2_091109a, nuk2_091109a'). IAN and NUK3 are probably with the NUK1 and NUK2 boats, but the other boats are still heading towards them and are not yet in the area. NUK2 probably saw the whale again about 7:27am (nuk2_091109b) and the NUK boats slowed in the area where they estimated the whale had been (nuk2_091109b'). The TAL1 and TAL2 boats reached this area and also slowed to scouting speed about 7:29am (tal1_091109a, tal2_091109a). At about 7:37 NUK1, NUK2, TAL1, and TAL2 all turned to the south so that probably one of the TAL boats saw the whale. All of these boats slowed to scouting speed near where TAL1 did about 7:39am (tal1_091109b). They headed mostly south until about 7:41am, when the whale was apparently seen again and all boats sped to the west for a short distance. The IP1 joined these boats about 7:54am (ip1_091109a) and they all followed the whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. The coordinates given for the strike were N70 31.157 W147 29.2545 (TAL1_091109S) but these coordinates were given by the TAL2 boat and using all the information available an alternative strike point has been estimated and mapped (tal1_091109c, N70 31.289 W147 29.323). These two points are about .2 mile apart. The kill location coordinates were given as N70 29.898 W147 28.317 (TAL1_091109d). The distance between the strike and kill points is about 1.6 miles. The whale was a female and 49'0" long. Boats helping with the tow were BO2, IP1, IP2, NUK1, TAL1, and TAL2. BO1, IAN, NUK2, and NUK3 did not help tow, and IP2 left the tow before it reached Cross Island.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
		Other Notes:	BP 29.45 and rising
Wave Height:	choppy	Other notes on sea conditions:	

Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? No GPS Track Name:

If not, why not?	Refusal
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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/4

Whaling today? Yes If not, why not?

Time departed: 0716 Time returned: 1419
 Trip time of 7 hours 03 minutes, roundtrip of 36.1 miles, furthest point from Cross Island of 12.5 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip1_091109A	N70.53 W147.49	758	IP1 boat arrives to help sight/chase "NUK1" whale

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	East
Time spent actively scouting/# people looking:	4/7:03
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: IP1 and IP2 were the last boats out at about 7:16am and 7:33am, in response to the BO boats seeing a whale NE of Cross Island (BO1_091109a) and the TAL and NUK boats seeing a whale ENE of Cross Island. When IP1 left Cross Island it headed east towards the TAL/NUK boats. IP2 left Cross Island to the NE towards the BO boats. The IP2 boat only paused briefly in this NE area and joined the BO boats in traveling at high speed to the east to join the other boats from the north. They had evidently lost track of the whale the BO crew had been chasing. The IP1 boat had joined the TAL/NUK boats about 7:54am (ip1_091109a) and they all followed that whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined these boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. Both IP1 and IP2 participated in the tow. However, about 1220 IP2 started to take on water and had to leave the tow to return to Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	choppy	Other Notes:	BP 29.45 and rising
Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: IP1_091109.gdb
 If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/4

Whaling today? Yes If not, why not?

Time departed: 0733 Time returned: 1326
 Trip time of 5 hours 53 minutes, roundtrip of 38.4 miles, furthest point from Cross Island of 12.5 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE towards BO boats
Time spent actively scouting/# people looking:	4/5:53
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: IP1 and IP2 were the last boats out at about 7:16am and 7:33am, in response to the BO boats seeing a whale NE of Cross Island (BO1_091109a) and the TAL and NUK boats seeing a whale ENE of Cross Island. When IP1 left Cross Island it headed east towards the TAL/NUK boats. IP2 left Cross Island to the NE towards the BO boats. The IP2 boat only paused briefly in this NE area and joined the BO boats in traveling at high speed to the east to join the other boats from the north. They had evidently lost track of the whale the BO crew had been chasing. The IP1 boat had joined the TAL/NUK boats about 7:54am (ip1_091109a) and they all followed that whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined these boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. Both IP1 and IP2 participated in the tow. However, about 1220 IP2 started to take on water and had to leave the tow to return to Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	choppy	Other Notes:	BP 29.45 and rising
Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: IP2_091109.gdb
 If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09Crew: NukapigakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/3

Whaling today?	Yes	If not, why not?	
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Time departed: 0556Time returned: 1420

Trip time of 8 hours 24 minutes, roundtrip of 45.8 miles, furthest point from Cross Island of 12.5 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk1_091109A	N70.52 W147.53	710	NUK1 position when whale seen
nuk1_091109A'	N70.54 W147.52	713	Estimated position of whale seen by NUK1 @ 7:10

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	East
Time spent actively scouting/# people looking:	3/8:24
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: IAN and NUK1 were the first boats out at about 5:55am and headed east. NUK2 and NUK3 left about 6:00 am and also headed east. All of these boats were in the same area when one of the NUK boats saw a whale about 7:10am (nuk1_091109a boat position, with nuk1_091109a' an estimate of where the whale was located). Information on the chase of the NUK/TAL whale is not very detailed. IAN and NUK3 are probably with the NUK1 and NUK2 boats, but the other boats are still heading towards them and are not yet in the area. NUK2 probably saw the whale again about 7:27am (nuk2_091109b) and the NUK boats slowed in the area where they estimated the whale had been (nuk2_091109b'). The TAL1 and TAL2 boats reached this area and also slowed to scouting speed about 7:29am (tal1_091109a, tal2_091109a). At about 7:37 NUK1, NUK2, TAL1, and TAL2 all turned to the south so that probably one of the TAL boats saw the whale. All of these boats slowed to scouting speed near where TAL1 did about 7:39am (tal1_091109b). They headed mostly south until about 7:41am, when the whale was apparently seen again and all boats sped to the west for a short distance. The IP1 joined these boats about 7:54am (ip1_091109a) and they all followed the whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. NUK1 participated in the tow, while NUK2 and NUK3 did not and returned to Cross Island ahead of the tow.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	choppy	Other notes on sea conditions:	
<p>Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.</p>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

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GPS track? Yes GPS Track Name: NUK1_091109.gdb

If not, why not?

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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09Crew: NukapigakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Scouting w/3

Whaling today?	Yes	If not, why not?	
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Time departed: 0600Time returned: 1011

Trip time of 4 hours 11 minutes, roundtrip of 39.7 miles, furthest point from Cross Island of 12.3 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk2_091109A	N70.54 W147.49	720	NUK2 position when whale resighted
nuk2_091109A'	N70.54 W147.5	721	Estimated position of whale resighted @ 7:20
nuk2_091109B	N70.55 W147.51	727	NUK2 position when whale resighted
nuk2_091109B'	N70.55 W147.53	729	Estimated position of whale resighted @ 7:27

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	East
Time spent actively scouting/# people looking:	3/4:11
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: IAN and NUK1 were the first boats out at about 5:55am and headed east. NUK2 and NUK3 left about 6:00 am and also headed east. All of these boats were in the same area when one of the NUK boats saw a whale about 7:10am (nuk1_091109a boat position, with nuk1_091109a' an estimate of where the whale was located). Information on the chase of the NUK/TAL whale is not very detailed. IAN and NUK3 are probably with the NUK1 and NUK2 boats, but the other boats are still heading towards them and are not yet in the area. NUK2 probably saw the whale again about 7:27am (nuk2_091109b) and the NUK boats slowed in the area where they estimated the whale had been (nuk2_091109b'). The TAL1 and TAL2 boats reached this area and also slowed to scouting speed about 7:29am (tal1_091109a, tal2_091109a). At about 7:37 NUK1, NUK2, TAL1, and TAL2 all turned to the south so that probably one of the TAL boats saw the whale. All of these boats slowed to scouting speed near where TAL1 did about 7:39am (tal1_091109b). They headed mostly south until about 7:41am, when the whale was apparently seen again and all boats sped to the west for a short distance. The IP1 joined these boats about 7:54am (ip1_091109a) and they all followed the whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. NUK1 participated in the tow, while NUK2 and NUK3 did not and returned to Cross Island ahead of the tow.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	choppy	Other Notes:	BP 29.45 and rising
Other notes on sea conditions:			

Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: NUK2_091109.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09 Crew: Nukapigak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/3

Whaling today? Yes If not, why not?

Time departed: 0600 Time returned: 1025
 Trip time of 4 hours 25 minutes, roundtrip of ?? miles, furthest point from Cross Island of ?? miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	East
Time spent actively scouting/# people looking:	3/4:25
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: IAN and NUK1 were the first boats out at about 5:55am and headed east. NUK2 and NUK3 left about 6:00 am and also headed east. All of these boats were in the same area when one of the NUK boats saw a whale about 7:10am (nuk1_091109a boat position, with nuk1_091109a' an estimate of where the whale was located). Information on the chase of the NUK/TAL whale is not very detailed. IAN and NUK3 are probably with the NUK1 and NUK2 boats, but the other boats are still heading towards them and are not yet in the area. NUK2 probably saw the whale again about 7:27am (nuk2_091109b) and the NUK boats slowed in the area where they estimated the whale had been (nuk2_091109b'). The TAL1 and TAL2 boats reached this area and also slowed to scouting speed about 7:29am (tal1_091109a, tal2_091109a). At about 7:37 NUK1, NUK2, TAL1, and TAL2 all turned to the south so that probably one of the TAL boats saw the whale. All of these boats slowed to scouting speed near where TAL1 did about 7:39am (tal1_091109b). They headed mostly south until about 7:41am, when the whale was apparently seen again and all boats sped to the west for a short distance. The IP1 joined these boats about 7:54am (ip1_091109a) and they all followed the whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. NUK1 participated in the tow, while NUK2 and NUK3 did not and returned to Cross Island ahead of the tow.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type: NA	Other Notes: BP 29.45 and rising
Wave Height:	choppy	Other notes on sea conditions:	
<p>Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.</p>			
<p>Note: Cross Island weather observations are compiled in a separate file (weather station + observer)</p>			

Engaged in any other subsistence activities? No If yes, describe below

GPS track? No GPS Track Name:

If not, why not?

GPS never turned on

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09Crew: TaalakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 1 (TAL1)	AL	24	Yamaha 250	Scouting w/5
Whaling today?	Yes	If not, why not?		

Time departed: 0631Time returned: 1420

Trip time of 7 hours 49 minutes, roundtrip of 38.5 miles, furthest point from Cross Island of 12.4 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal1_091109A	N70.55 W147.53	729	TAL1 slowed to scouting speed near whale seen @ 7:10
tal1_091109B	N70.54 W147.55	739	Many boats scouting in the area for whale seen @ 7:10
tal1_091109C	N70.53 W147.49	759	TAL1 reports striking whale (radio)
TAL1_091109D	N70.5 W147.48	850	Coordinates given for kill site for TAL1 whale
TAL1_091109S	N70.52 W147.49	800	Coordinates given for TAL1 strike (from TAL2 boat)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	East
Time spent actively scouting/# people looking:	5/7:49
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: Ten boats went out scouting. Eight boats went out between 5:55am and 6:31am. The BO boats headed NW from Cross Island, while the TAL, NUK, and IAN boats headed east and then a bit north after they saw a whale. IP1 and IP2 were the last boats out at about 7:16am and 7:33am, in response to the BO boats seeing a whale NE of Cross Island and the TAL and NUK boats seeing a whale ENE of Cross Island. About 7:20am the NUK/TAL whale was probably seen going to the north (nuk2_091109a, nuk2_091109a'). IAN and NUK3 are probably with the NUK1 and NUK2 boats, but the other boats are still heading towards them and are not yet in the area. NUK2 probably saw the whale again about 7:27am (nuk2_091109b) and the NUK boats slowed in the area where they estimated the whale had been (nuk2_091109b'). The TAL1 and TAL2 boats reached this area and also slowed to scouting speed about 7:29am (tal1_091109a, tal2_091109a). At about 7:37 NUK1, NUK2, TAL1, and TAL2 all turned to the south so that probably one of the TAL boats saw the whale. All of these boats slowed to scouting speed near where TAL1 did about 7:39am (tal1_091109b). They headed mostly south until about 7:41am, when the whale was apparently seen again and all boats sped to the west for a short distance. The IP1 joined these boats about 7:54am (ip1_091109a) and they all followed the whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. The coordinates given for the strike were N70 31.157 W147 29.2545 (TAL1_091109S) but these coordinates were given by the TAL2 boat and using all the information available an alternative strike point has been estimated and mapped (tal1_091109c, N70 31.289 W147 29.323). These two points are about .2 mile apart. The kill location coordinates were given as N70 29.898 W147 28.317 (TAL1_091109d). The distance between the strike and kill points is about 1.6 miles. The whale was a female and 49'0" long. Boats helping with the tow were BO2, IP1, IP2, NUK1, TAL1, and TAL2. BO1, IAN, NUK2, and NUK3 did not help tow, and IP2 left the tow before it reached Cross Island.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	choppy	Other Notes:	BP 29.45 and rising
Other pertinent notes:	Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.		

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? Yes GPS Track Name: Tal1_091109.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/11/09

Crew: Taalak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Taalak 2 (TAL2)	AL	20	Yamaha 115	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0631

Time returned: 1420

Trip time of 7 hours 49 minutes, roundtrip of 38.5 miles, furthest point from Cross Island of 12.4 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
tal2_091109A	N70.54 W147.57	729	TAL2 slowed to scouting speed near whale seen @ 7:10

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	East
Time spent actively scouting/# people looking:	3/7:49
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: Ten boats went out scouting. Eight boats went out between 5:55am and 6:31am. The BO boats headed NW from Cross Island, while the TAL, NUK, and IAN boats headed east and then a bit north after they saw a whale. IP1 and IP2 were the last boats out at about 7:16am and 7:33am, in response to the BO boats seeing a whale NE of Cross Island and the TAL and NUK boats seeing a whale ENE of Cross Island. About 7:20am the NUK/TAL whale was probably seen going to the north (nuk2_091109a, nuk2_091109a'). IAN and NUK3 are probably with the NUK1 and NUK2 boats, but the other boats are still heading towards them and are not yet in the area. NUK2 probably saw the whale again about 7:27am (nuk2_091109b) and the NUK boats slowed in the area where they estimated the whale had been (nuk2_091109b'). The TAL1 and TAL2 boats reached this area and also slowed to scouting speed about 7:29am (tal1_091109a, tal2_091109a). At about 7:37 NUK1, NUK2, TAL1, and TAL2 all turned to the south so that probably one of the TAL boats saw the whale. All of these boats slowed to scouting speed near where TAL1 did about 7:39am (tal1_091109b). They headed mostly south until about 7:41am, when the whale was apparently seen again and all boats sped to the west for a short distance. The IP1 joined these boats about 7:54am (ip1_091109a) and they all followed the whale south. TAL1 reported striking the whale about 7:59am (tal1_091109c). The boats then followed the whale south, with boats trying to place more bombs to kill it. The BO1, BO2, and IP2 boats joined the other boats between 8:32am and 8:38am. TAL1 put a second float on the whale about 8:39am (or this may have been as early as 8:04am). The whale was officially declared dead about 8:52am. The coordinates given for the strike were N70 31.157 W147 29.2545 (TAL1_091109S) but these coordinates were given by the TAL2 boat and using all the information available an alternative strike point has been estimated and mapped (tal1_091109c, N70 31.289 W147 29.323). These two points are about .2 mile apart. The kill location coordinates were given as N70 29.898 W147 28.317 (TAL1_091109d). The distance between the strike and kill points is about 1.6 miles. The whale was a female and 49'0" long. Boats helping with the tow were BO2, IP1, IP2, NUK1, TAL1, and TAL2. BO1, IAN, NUK2, and NUK3 did not help tow, and IP2 left the tow before it reached Cross Island.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	Overcast	Weather notes:	
Wind Direction:	shifting	Wind speed and other notes:	0-20 mph; low & shifting in morning, then westerly
% Ice Coverage:	0	Ice Type:	NA
		Other Notes:	BP 29.45 and rising
Wave Height:	choppy	Other notes on sea conditions:	

Other pertinent notes: Water still fairly rough, due to swells and waves (especially for smaller boats). Rougher as wind increased in afternoon and tow was slowed by relatively high sea state.

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

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GPS track? Yes **GPS Track Name:** Tal2_091109.gdb

If not, why not?	
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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/12/09 Crew: various GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	disabled
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore – butchering whale landed 9/11
Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore – butchering whale landed 9/11

Whaling today? No If not, why not? NAP boat disabled, TAL crew butchering their whale

Time departed: NA Time returned: NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	<u>BP 29.5 and rising</u>
Wind Direction:	West	Wind speed and other notes:	<u>0-8 mph, westerly most of the day, then shifty to N</u>
% Ice Coverage:	0	Ice Type:	<u>NA</u> Other Notes:
Wave Height:	calm	Other notes on sea conditions:	<u>"Calm, flat water"</u>
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? NA GPS Track Name:
If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/12/09 Crew: Oyagak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/3
Whaling today?		Yes	If not, why not?	

Time departed: 0830 Time returned: 1918

Trip time of 10 hours 48 minutes, roundtrip of 102.0 miles, furthest point from Cross Island of 27.3 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO1_091209A	N70.56 W147.45	957	Marked whale seen by IAN
BO1_091209B	N70.61 W147.58	1157	Marked coordinates for whale IAN saw @ 11:54
BO1_091209C	N70.58 W147.49	1223	Marked point when whale seen
BO1_091209D	N70.62 W147.53	1354	Resighting of whale
BO1_091209E	N70.64 W147.01	NA	Whale too far east of CI, gave up the chase
bo1_091209F	N70.65 W146.89	1600	Boats turned to SW
BO1_091209G	N70.49 W147.37	1658	Marked whale seen by NUK1 @1617

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/10:48
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	calm	Other notes on sea conditions:	"Calm, flat water"

Other pertinent notes:

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: BO1_091209.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/12/09 Crew: Oyagak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0824

Time returned: 1840

Trip time of 10 hours 16 minutes, roundtrip of 87.8 miles, furthest point from Cross Island of 23.7 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO2_091209A	N70.58 W147.49	1219	Whale seen on way to whale seen by IAN
BO2_091209A'	N70.58 W147.48	1220	Estimated position of whale seen @ 12:19

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/10:16
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	calm	Other Notes:	
Other notes on sea conditions: "Calm, flat water"			
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: BO2_091209.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/12/09Crew: AqarguinGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5, then 4 on 2 nd trip
Whaling today?	Yes	If not, why not?		

Time departed: **0907/1425**Time returned: **1413/1913**

First trip time of 5 hours 06 minutes, roundtrip of ?? miles, furthest point from Cross Island of ?? miles

Second trip time of 4 hours 48 minutes, roundtrip of ?? miles, furthest point from Cross Island of ?? miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ian_091209A	N70.56 W147.47	945	Whale sighting, position approximate
IAN_091209B	N70.61 W147.59	1154	Whale sighting, marked with coordinates

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	5/5:06, then 4/4:48
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	calm	Other Notes:	
Other notes on sea conditions:	"Calm, flat water"		
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

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GPS track? No GPS Track Name:

If not, why not? Refusal

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/12/09

Crew: Ipalook

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0926

Time returned: 1913

Trip time of 9 hours 47 minutes, roundtrip of 111.0 miles, furthest point from Cross Island of 27.5 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IP1_091209A	N70.61 W147.59	1156	Marked coordinates for whale IAN saw @ 11:54
IP1_091209B	N70.61 W147.59	1157	Marked coordinates for whale IAN saw @ 11:54
IP1_091209C	N70.51 W147.26	1627	Marked whale seen by NUK1 @1617

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/9:47
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	calm	Other Notes:	
Other notes on sea conditions:	"Calm, flat water"		
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

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GPS track? Yes GPS Track Name: IP1_091209.gdb

If not, why not?	
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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/12/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/3
Whaling today?		Yes	If not, why not?	

Time departed: 1215

Time returned: 1914

Trip time of 6 hours 59 minutes, roundtrip of 84.9 miles, furthest point from Cross Island of 27.8 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
ip2_091209A	N70.67 W146.94	1618	Whale too far east of CI, gave up the chase
IP2_091209B	N70.5 W147.47	1718	Saw a big whale with no blow

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/6:59
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	calm	Other Notes:	
Other notes on sea conditions:		"Calm, flat water"	
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? Yes **GPS Track Name:** IP2_091209.gdb
If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 Use one form for each vessel/day

Date: 09/12/09 **Crew:** Nukapigak **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 1 (NUK1)	AL	21.5	Yamaha 115	Scouting w/4
Whaling today?	Yes	If not, why not?		

Time departed: 0900 **Time returned: 1940**
Trip time of 10 hours 40 minutes, roundtrip of 112.0 miles, furthest point from Cross Island of 27.4 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NUK1_091209A	N70.56 W147.18	1617	Boat position when they saw a whale
NUK1_091209A'	N70.52 W147.26	1623	Estimated position of whale seen @ 1617

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	4/10:40
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	calm	Other Notes:	"Calm, flat water"
Other pertinent notes:			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?	No	If yes, describe below
GPS track? Yes	GPS Track Name: NUK1_091209.gdb	
If not, why not?		

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 Use one form for each vessel/day

Date: 09/12/09	Crew: Nukapigak	GPS Type: NA		
Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: 0925 **Time returned: 1921**
Trip time of 9 hours 56 minutes, roundtrip of 121.0 miles, furthest point from Cross Island of 27.4 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/9:56
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising		
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N		
% Ice Coverage:	0	Ice Type:	NA	Other Notes:	
Wave Height:	calm	Other notes on sea conditions: "Calm, flat water"			
Other pertinent notes:					

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: NUK2_091209.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/12/09

Crew: Nukapigak

GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/4
Whaling today?	Yes	If not, why not?		

Time departed: 0900

Time returned: 1955

Trip time of 10 hours 55 minutes, roundtrip of 120.0 miles, furthest point from Cross Island of 19.0 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
nuk3_091209A	N70.72 W147.91	1412	reported seeing a boat
NUK3_091209B	N70.72 W148.05	1425	Reported boat as the <i>Mikkelsen Bay</i> and gave his coordinates
nuk3_091209C	N70.71 W148.06	1433	Westernmost point of NUK3 track, turned away from boat
nuk3_091209D	N70.61 W147.98	1450	Bearded seal sighting
NUK3_091209E	N70.48 W147.45	1543	NUK3 joined other boats (in the general area)

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	4:10:55
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: All boats left Cross Island headed NE to ENE, and later movements were influenced by the first whale sightings of the day. The first sighting was about 9:45am (ian_091209a) was only approximately located. BO1 marked this as BO1_091209a about 9:57am, when they may have seen this whale. Most boats scouted this area heading NE, although IAN stayed in the area and to the NW. When IAN spotted a second whale at about 11:54am (IAN_091209b, marked as coordinates by other boats as BO1_091209b, IP1_091209a, and IP1_091209b) all boats except NUK3 responded. NUK3 continued to the NW and west. Most boats did not stay in this area very long, and the BO boats never reached it, since BO2 saw a whale at about 12:19pm (BO1_091209c and BO2_091209a, while heading towards IAN_091209b) and changed course towards it and slowed in the area bo2_091209a'. The other boats joined the BO boats in this area or further to the east. Boats scouted east, NE, and NW of the initial area of sighting and saw the whale again (BO1_091209d). From this point all boats (except NUK3) followed this whale to the east. The boats followed it east until they judged that it was too far from Cross Island – BO1_091209e and ip2_091209a are the last marked points for this whale, and bo1_091209f marks the area where BO1 turned SW at about 4:00pm. NUK3 had traveled to the NW and about 2:12pm reported seeing a boat (nuk3_091209a). About 2:25 NUK3 identified the Mikkelsen Bay and gave his coordinates (NUK3_091209b). Probably because of the boat, NUK3 turned to the SE towards the other boats (nuk3_091209c). About 2:50pm NUK3 reported seeing a bearded seal (nuk3_091209d). NUK3 did not report any other sightings, and reached the other boats at about 3:43pm (nuk3_091209e). NUK1 reported a whale about 4:17pm (NUK1_091209a) and scouted near nuk1_091209a' (about 4:23pm). Other boats marked this whale as IP1_091209c and BO1_091209g. IP2 saw a big whale with no blow at ip2_091209b. This point seems to have been the last sighting of the whale first seen by NUK1. Boats then scouted a bit to the east, SE, and NE before most boats turned back towards Cross Island between about 5:30pm and 6:00pm, some at scouting speed and others at high speed. NUK1 and NUK3 stayed in the area longer than the other boats.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	No	Weather notes:	BP 29.5 and rising
Wind Direction:	West	Wind speed and other notes:	0-8 mph, westerly most of the day, then shifty to N
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	calm	Other Notes:	
Other pertinent notes:	Other notes on sea conditions: "Calm, flat water"		

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Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

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GPS track? Yes **GPS Track Name:** NUK3_091209.gdb

If not, why not?	
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Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09 **Crew:** various **GPS Type:** NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Napageak (NAP)	FG	21	Honda 225	disabled
Taalak 1 (TAL1)	AL	24	Yamaha 250	Onshore – butchering whale landed 9/11
Taalak 2 (TAL2)	AL	20	Yamaha 115	Onshore – butchering whale landed 9/11

Whaling today? No **If not, why not?** NAP boat disabled, TAL crew butchering their whale

Time departed: NA **Time returned:** NA

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NA			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	<u>NA</u>
Time spent actively scouting/# people looking:	<u>NA</u>
Time spent in travel/tow/assistance to other boats/on "break":	<u>NA</u>
Notes:	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	<u>morning</u>	Weather notes:	<u>BP 29.6 and rising</u>
Wind Direction:	<u>North</u>	Wind speed and other notes:	<u>2-12 mph, wind northerly</u>
% Ice Coverage:	<u>0</u>	Ice Type:	<u>NA</u>
Wave Height:	<u>small</u>	Other notes on sea conditions:	<u>Conditions good, but not as calm as 9/12</u>
Other pertinent notes: <u>Fog on Cross Island in the morning, some on the water but burns off</u>			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No **If yes, describe below**

GPS track? NA **GPS Track Name:** _____
If not, why not? _____

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09 Crew: Oyagak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 1 (BO1)	FG	17.5	Yamaha 80	Scouting w/3
Whaling today?	Yes	If not, why not?		

Time departed: **0651** Time returned: **1741**

Trip time of **10 hours 50 minutes**, roundtrip of **84.7 miles**, furthest point from Cross Island of **24.5 miles**

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
BO1_091309A	N70.56 W147.77	806	Whale sighting
BO1_091309B	N70.55 W147.13	1049	Whale sighting
BO1_091309C	N70.52 W147.68	1400	Saw "something" but no reported sighting

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/10:50
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: BO1, BO2, NUK1, NUK3, and probably IAN headed NE or ENE. IP1 and IP2 left Cross Island headed north for 16 or 17 miles and then turned east. BO1 spotted a whale about 8:05am (BO1_091309a). IP1, IP2, and NUK1 stayed to the north of the BO boats, while NUK3 was well to the east of them. IAN may have been near NUK1 or NUK3. When NUK3 reported seeing a whale about 10:00am (nuk3_091309a, nuk3_091309a') IP1, IP2, and NUK1 (and IAN) increased speed to join NUK3. BO1 and BO2 delayed doing so until 10:18am or so, when they went east at high speed to join in chasing the NUK3 whale. The NUK3 boat radioed their coordinates to the other boats about 10:09am (NUK3_091309b). NUK3 reported striking the whale at 10:35am (nuk3_091309d) but it seems likely that it may have been a bit earlier (nuk3_091309c, 1034). Similarly, the Com Center recorded that the NUK3 boat used their shoulder gun at 10:39am (nuk3_091309f) when it likely was a little earlier (nuk3_091309e). The whale was declared dead no later than 10:55am (NUK3_091309g). The whale was small (later measured as a 20'4" female), so the whalers decided to try to land a second whale. BO1 (and the boats with them) saw a different whale about 10:49am (BO1_091309b). BO1, BO2, IP1, IP2, and probably IAN followed this whale north at high speed soon after the NUK3 whale was declared dead. IP1 turned back to the NUK3 whale about 11:11am to help with the tow. The NUK2 boat was called to help with the tow but due miscommunications NUK2 did not meet the tow until 2:54pm or so. The boats that followed the BO1 whale north made a loop about 6.1 miles to the NE, and then headed back to Cross Island to refuel. On the way back to Cross Island BO1 saw something about 2:00pm (bo1_091309c), and BO1 made an "extra" loop about 5.1 miles to the NW. BO1 did not report sighting anything of interest. This delayed BO1's return to Cross Island and, with conditions getting more marginal, BO1 did not make a second trip. On the tow back to Cross Island, IP2 saw a whale at about 1:36pm (ip1_091309a) and slow to look around at about 1:40pm (ip1_091309a'), but did not report seeing any sightings. They returned to Cross Island, rather than rejoining the tow, since by that time NUK2 had joined the tow and they were not far from Cross Island. BO2 made a second trip of about 2 hours to the north and NE, and reported no sightings. IP1 and IP2 made second trips of 3.5 and 2.5 hours to the east, to areas where whales had been seen before. They also reported no sightings.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other notes on sea conditions:	Conditions good, but not as calm as 9/12
Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: BO1_091209.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Oyagak 2 (BO2)	FG	17.5	Yamaha 150	Scouting w/3 (both trips)
Whaling today?	Yes	If not, why not?		

Time departed: **0653/1619**Time returned: **1447/1820**

First trip time of 7 hours 54 minutes, roundtrip of 64.7 miles, furthest point from Cross Island of 24.5 miles

Second trip time of 2 hours 01 minutes, roundtrip of 25.0 miles, furthest point from Cross Island of 10.9 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	3/9:55
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: BO1, BO2, NUK1, NUK3, and probably IAN headed NE or ENE. IP1 and IP2 left Cross Island headed north for 16 or 17 miles and then turned east. BO1 spotted a whale about 8:05am (BO1_091309a). IP1, IP2, and NUK1 stayed to the north of the BO boats, while NUK3 was well to the east of them. IAN may have been near NUK1 or NUK3. When NUK3 reported seeing a whale about 10:00am (nuk3_091309a, nuk3_091309a') IP1, IP2, and NUK1 (and IAN) increased speed to join NUK3. BO1 and BO2 delayed doing so until 10:18am or so, when they went east at high speed to join in chasing the NUK3 whale. The NUK3 boat radioed their coordinates to the other boats about 10:09am (NUK3_091309b). NUK3 reported striking the whale at 10:35am (nuk3_091309d) but it seems likely that it may have been a bit earlier (nuk3_091309c, 1034). Similarly, the Com Center recorded that the NUK3 boat used their shoulder gun at 10:39am (nuk3_091309f) when it likely was a little earlier (nuk3_091309e). The whale was declared dead no later than 10:55am (NUK3_091309g). The whale was small (later measured as a 20'4" female), so the whalers decided to try to land a second whale. BO1 (and the boats with them) saw a different whale about 10:49am (BO1_091309b). , BO1, BO2, IP1, IP2, and probably IAN followed this whale north at high speed soon after the NUK3 whale was declared dead. IP1 turned back to the NUK3 whale about 11:11am to help with the tow. The NUK2 boat was called to help with the tow but due miscommunications NUK2 did not meet the tow until 2:54pm or so. The boats that followed the BO1 whale north made a loop about 6.1 miles to the NE, and then headed back to Cross Island to refuel. On the way back to Cross Island BO1 saw something about 2:00pm (bo1_091309c), and BO1 made an "extra" loop about 5.1 miles to the NW. BO1 did not report sighting anything of interest. This delayed BO1's return to Cross Island and, with conditions getting more marginal, BO1 did not make a second trip. On the tow back to Cross Island, IP2 saw a whale at about 1:36pm (ip1_091309a) and slow to look around at about 1:40pm (ip1_091309a'), but did not report seeing any sightings. They returned to Cross Island, rather than rejoining the tow, since by that time NUK2 had joined the tow and they were not far from Cross Island. BO2 made a second trip of about 2 hours to the north and NE, and reported no sightings. IP1 and IP2 made second trips of 3.5 and 2.5 hours to the east, to areas where whales had been seen before. They also reported no sightings.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other Notes:	
Other notes on sea conditions: Conditions good, but not as calm as 9/12			
Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: BO2_091209a.gdb, BO2_091309b.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09Crew: OyagakGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5
Whaling today?	Yes	If not, why not?		

Time departed: **0645**Time returned: **1739**Trip time of **10 hours 54 minutes**, roundtrip of ?? miles, furthest point from Cross Island of ?? miles**Waypoints or Coordinates noted**

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	5:10:54
Time spent in travel/tow/assistance to other boats/on "break":	NA
Notes: BO1, BO2, NUK1, NUK3, and probably IAN headed NE or ENE. IP1 and IP2 left Cross Island headed north for 16 or 17 miles and then turned east. BO1 spotted a whale about 8:05am (BO1_091309a). IP1, IP2, and NUK1 stayed to the north of the BO boats, while NUK3 was well to the east of them. IAN may have been near NUK1 or NUK3. When NUK3 reported seeing a whale about 10:00am (nuk3_091309a, nuk3_091309a') IP1, IP2, and NUK1 (and IAN) increased speed to join NUK3. BO1 and BO2 delayed doing so until 10:18am or so, when they went east at high speed to join in chasing the NUK3 whale. The NUK3 boat radioed their coordinates to the other boats about 10:09am (NUK3_091309b). NUK3 reported striking the whale at 10:35am (nuk3_091309d) but it seems likely that it may have been a bit earlier (nuk3_091309c, 1034). Similarly, the Com Center recorded that the NUK3 boat used their shoulder gun at 10:39am (nuk3_091309f) when it likely was a little earlier (nuk3_091309e). The whale was declared dead no later than 10:55am (NUK3_091309g). The whale was small (later measured as a 20'4" female), so the whalers decided to try to land a second whale. BO1 (and the boats with them) saw a different whale about 10:49am (BO1_091309b). , BO1, BO2, IP1, IP2, and probably IAN followed this whale north at high speed soon after the NUK3 whale was declared dead. IP1 turned back to the NUK3 whale about 11:11am to help with the tow. The NUK2 boat was called to help with the tow but due miscommunications NUK2 did not meet the tow until 2:54pm or so. The boats that followed the BO1 whale north made a loop about 6.1 miles to the NE, and then headed back to Cross Island to refuel. On the way back to Cross Island BO1 saw something about 2:00pm (bo1_091309c), and BO1 made an "extra" loop about 5.1 miles to the NW. BO1 did not report sighting anything of interest. This delayed BO1's return to Cross Island and, with conditions getting more marginal, BO1 did not make a second trip. On the tow back to Cross Island, IP2 saw a whale at about 1:36pm (ip1_091309a) and slow to look around at about 1:40pm (ip1_091309a'), but did not report seeing any sightings. They returned to Cross Island, rather than rejoining the tow, since by that time NUK2 had joined the tow and they were not far from Cross Island. BO2 made a second trip of about 2 hours to the north and NE, and reported no sightings. IP1 and IP2 made second trips of 3.5 and 2.5 hours to the east, to areas where whales had been seen before. They also reported no sightings.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other Notes:	
Other notes on sea conditions: Conditions good, but not as calm as 9/12			
Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?

No

If yes, describe below

GPS track? No GPS Track Name:

If not, why not? Refusal

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09Crew: IpalookGPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 1 (IP1)	FG	18	Honda 150	Scouting w/4 (both trips)
Whaling today?	Yes	If not, why not?		

Time departed: **0656/1508**Time returned: **1450/1838**

First trip time of 7 hours 54 minutes, roundtrip of 72.0 miles, furthest point from Cross Island of 20.3 miles

Second trip time of 3 hours 30 minutes, roundtrip of 47.1 miles, furthest point from Cross Island of 18.1 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
IP1_091309A	N70.51 W147.63	1335	During tow saw a whale and left tow to go look
IP1_091309A'	N70.52 W147.66	1340	Estimated position of whale seen @ 1336

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N
Time spent actively scouting/# people looking:	4/11:24
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: BO1, BO2, NUK1, NUK3, and probably IAN headed NE or ENE. IP1 and IP2 left Cross Island headed north for 16 or 17 miles and then turned east. BO1 spotted a whale about 8:05am (BO1_091309a). IP1, IP2, and NUK1 stayed to the north of the BO boats, while NUK3 was well to the east of them. IAN may have been near NUK1 or NUK3. When NUK3 reported seeing a whale about 10:00am (nuk3_091309a, nuk3_091309a') IP1, IP2, and NUK1 (and IAN) increased speed to join NUK3. BO1 and BO2 delayed doing so until 10:18am or so, when they went east at high speed to join in chasing the NUK3 whale. The NUK3 boat radioed their coordinates to the other boats about 10:09am (NUK3_091309b). NUK3 reported striking the whale at 10:35am (nuk3_091309d) but it seems likely that it may have been a bit earlier (nuk3_091309c, 1034). Similarly, the Com Center recorded that the NUK3 boat used their shoulder gun at 10:39am (nuk3_091309f) when it likely was a little earlier (nuk3_091309e). The whale was declared dead no later than 10:55am (NUK3_091309g). The whale was small (later measured as a 20'4" female), so the whalers decided to try to land a second whale. BO1 (and the boats with them) saw a different whale about 10:49am (BO1_091309b). , BO1, BO2, IP1, IP2, and probably IAN followed this whale north at high speed soon after the NUK3 whale was declared dead. IP1 turned back to the NUK3 whale about 11:11am to help with the tow. The NUK2 boat was called to help with the tow but due miscommunications NUK2 did not meet the tow until 2:54pm or so. The boats that followed the BO1 whale north made a loop about 6.1 miles to the NE, and then headed back to Cross Island to refuel. On the way back to Cross Island BO1 saw something about 2:00pm (bo1_091309c), and BO1 made an "extra" loop about 5.1 miles to the NW. BO1 did not report sighting anything of interest. This delayed BO1's return to Cross Island and, with conditions getting more marginal, BO1 did not make a second trip. On the tow back to Cross Island, IP2 saw a whale at about 1:36pm (ip1_091309a) and slow to look around at about 1:40pm (ip1_091309a'), but did not report seeing any sightings. They returned to Cross Island, rather than rejoining the tow, since by that time NUK2 had joined the tow and they were not far from Cross Island. BO2 made a second trip of about 2 hours to the north and NE, and reported no sightings. IP1 and IP2 made second trips of 3.5 and 2.5 hours to the east, to areas where whales had been seen before. They also reported no sightings.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other notes on sea conditions:	Conditions good, but not as calm as 9/12
Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: IP1_091209a.gdb, IP1_091309b.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09 Crew: Ipalook GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Ipalook 2 (IP2)	FG	21	Yamaha 200	Scouting w/4 (both trips)
Whaling today?	Yes	If not, why not?		

Time departed: **0704/1508**

Time returned: **1500/1729**

First trip time of 7 hours 56 minutes, roundtrip of 90.3 miles, furthest point from Cross Island of 25.3 miles

Second trip time of 2 hours 21 minutes, roundtrip of 31.0 miles, furthest point from Cross Island of 13.0 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N
Time spent actively scouting/# people looking:	4/10:17
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: BO1, BO2, NUK1, NUK3, and probably IAN headed NE or ENE. IP1 and IP2 left Cross Island headed north for 16 or 17 miles and then turned east. BO1 spotted a whale about 8:05am (BO1_091309a). IP1, IP2, and NUK1 stayed to the north of the BO boats, while NUK3 was well to the east of them. IAN may have been near NUK1 or NUK3. When NUK3 reported seeing a whale about 10:00am (nuk3_091309a, nuk3_091309a') IP1, IP2, and NUK1 (and IAN) increased speed to join NUK3. BO1 and BO2 delayed doing so until 10:18am or so, when they went east at high speed to join in chasing the NUK3 whale. The NUK3 boat radioed their coordinates to the other boats about 10:09am (NUK3_091309b). NUK3 reported striking the whale at 10:35am (nuk3_091309d) but it seems likely that it may have been a bit earlier (nuk3_091309c, 1034). Similarly, the Com Center recorded that the NUK3 boat used their shoulder gun at 10:39am (nuk3_091309f) when it likely was a little earlier (nuk3_091309e). The whale was declared dead no later than 10:55am (NUK3_091309g). The whale was small (later measured as a 20'4" female), so the whalers decided to try to land a second whale. BO1 (and the boats with them) saw a different whale about 10:49am (BO1_091309b). , BO1, BO2, IP1, IP2, and probably IAN followed this whale north at high speed soon after the NUK3 whale was declared dead. IP1 turned back to the NUK3 whale about 11:11am to help with the tow. The NUK2 boat was called to help with the tow but due miscommunications NUK2 did not meet the tow until 2:54pm or so. The boats that followed the BO1 whale north made a loop about 6.1 miles to the NE, and then headed back to Cross Island to refuel. On the way back to Cross Island BO1 saw something about 2:00pm (bo1_091309c), and BO1 made an "extra" loop about 5.1 miles to the NW. BO1 did not report sighting anything of interest. This delayed BO1's return to Cross Island and, with conditions getting more marginal, BO1 did not make a second trip. On the tow back to Cross Island, IP2 saw a whale at about 1:36pm (ip1_091309a) and slow to look around at about 1:40pm (ip1_091309a'), but did not report seeing any sightings. They returned to Cross Island, rather than rejoining the tow, since by that time NUK2 had joined the tow and they were not far from Cross Island. BO2 made a second trip of about 2 hours to the north and NE, and reported no sightings. IP1 and IP2 made second trips of 3.5 and 2.5 hours to the east, to areas where whales had been seen before. They also reported no sightings.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other notes on sea conditions:	Conditions good, but not as calm as 9/12

Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below
 GPS track? Yes GPS Track Name: IP2_091209a.gdb, IP2_091309b.gdb
 If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009 Use one form for each vessel/day

Date: 09/13/09 Crew: Oyagak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Aqarguin (IAN)	AL	22	Yamaha 225	Scouting w/5
Whaling today?		Yes	If not, why not?	

Time departed: **0645** Time returned: **1739**

Trip time of 10 hours 54 minutes, roundtrip of ?? miles, furthest point from Cross Island of ?? miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	5:10:54
Time spent in travel/tow/assistance to other boats/on "break":	NA
<p>Notes: BO1, BO2, NUK1, NUK3, and probably IAN headed NE or ENE. IP1 and IP2 left Cross Island headed north for 16 or 17 miles and then turned east. BO1 spotted a whale about 8:05am (BO1_091309a). IP1, IP2, and NUK1 stayed to the north of the BO boats, while NUK3 was well to the east of them. IAN may have been near NUK1 or NUK3. When NUK3 reported seeing a whale about 10:00am (nuk3_091309a, nuk3_091309a') IP1, IP2, and NUK1 (and IAN) increased speed to join NUK3. BO1 and BO2 delayed doing so until 10:18am or so, when they went east at high speed to join in chasing the NUK3 whale. The NUK3 boat radioed their coordinates to the other boats about 10:09am (NUK3_091309b). NUK3 reported striking the whale at 10:35am (nuk3_091309d) but it seems likely that it may have been a bit earlier (nuk3_091309c, 1034). Similarly, the Com Center recorded that the NUK3 boat used their shoulder gun at 10:39am (nuk3_091309f) when it likely was a little earlier (nuk3_091309e). The whale was declared dead no later than 10:55am (NUK3_091309g). The whale was small (later measured as a 20'4" female), so the whalers decided to try to land a second whale. BO1 (and the boats with them) saw a different whale about 10:49am (BO1_091309b). , BO1, BO2, IP1, IP2, and probably IAN followed this whale north at high speed soon after the NUK3 whale was declared dead. IP1 turned back to the NUK3 whale about 11:11am to help with the tow. The NUK2 boat was called to help with the tow but due miscommunications NUK2 did not meet the tow until 2:54pm or so. The boats that followed the BO1 whale north made a loop about 6.1 miles to the NE, and then headed back to Cross Island to refuel. On the way back to Cross Island BO1 saw something about 2:00pm (bo1_091309c), and BO1 made an "extra" loop about 5.1 miles to the NW. BO1 did not report sighting anything of interest. This delayed BO1's return to Cross Island and, with conditions getting more marginal, BO1 did not make a second trip. On the tow back to Cross Island, IP2 saw a whale at about 1:36pm (ip1_091309a) and slow to look around at about 1:40pm (ip1_091309a'), but did not report seeing any sightings. They returned to Cross Island, rather than rejoining the tow, since by that time NUK2 had joined the tow and they were not far from Cross Island. BO2 made a second trip of about 2 hours to the north and NE, and reported no sightings. IP1 and IP2 made second trips of 3.5 and 2.5 hours to the east, to areas where whales had been seen before. They also reported no sightings.</p>	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other Notes:	
Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities?	No	If yes, describe below
GPS track? No	GPS Track Name:	
If not, why not?	Refusal	

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09 Crew: Nukapigak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 2 (NUK2)	AL	20	Yamaha 115	Assist with tow w/2 (both trips)
Whaling today?		Yes (tow)	If not, why not?	

Time departed: **0704/1508** Time returned: **1500/1729**

First trip time of 7 hours 56 minutes, roundtrip of 90.3 miles, furthest point from Cross Island of 25.3 miles
 Second trip time of 2 hours 21 minutes, roundtrip of 31.0 miles, furthest point from Cross Island of 13.0 miles

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
none			

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	N
Time spent actively scouting/# people looking:	NA
Time spent in travel/tow/assistance to other boats/on "break":	4/10:17
Notes: NUK2 did not go out scouting, since some of the Nukapigak crew members had left Cross Island already and only two boats could be fully manned. However, the NUK2 boat was in a "reserve" capacity and was available to help with an emergency or tow. When NUK3 struck an landed a whale, they called for NUK2 to come assist in the tow. Due to a series of miscommunications, NUK2 did not find the tow on their first trip and returned to Cross Island. After refueling and some rest, NUK2 went out again and joined the tow.	

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other Notes:	Conditions good, but not as calm as 9/12
Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off			

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: NUK3_091209a.gdb, NUK3_091309b.gdb

If not, why not?

Use Reverse For Additional Notes or Information

Cross Island Subsistence Whaling Data Collection Form, 2009

Use one form for each vessel/day

Date: 09/13/09 Crew: Nukapigak GPS Type: NA

Vessel	Type	Length	HP Motor	# crew aboard/notes
Nukapigak 3 (NUK3)	FG	22	Yamaha 150	Scouting w/4
Whaling today?	Yes	If not, why not?		

Time departed: **0726** Time returned: **1630**

Trip time of **9 hours 04 minutes**, roundtrip of **61.8 miles**, furthest point from Cross Island of **20.5 miles**

Waypoints or Coordinates noted

Waypoint #	Lat/Long	Time	Notes (if whale - # of animals, direction of travel, behavior)
NUK3_091309A	N70.55 W147.22	1000	NUK3 position when they saw a whale
NUK3_091309A'	N70.55 W147.19	1001	Estimated position of whale NUK3 saw @ 1000
NUK3_091309B	N70.55 W147.18	1008	NUK3 gave coordinates to other boats
nuk3_091309C	N70.55 W147.15	1034	Likely NUK3 strike time
nuk3_091309D	N70.55 W147.14	1035	Reported NUK3 strike time
nuk3_091309E	N70.55 W147.13	1038	Likely time NUK3 used shoulder gun
nuk3_091309F	N70.55 W147.13	1039	Reported time NUK3 used shoulder gun
NUK3_091309G	N70.55 W147.13	1055	NUK3 whale determined to be dead

Describe the day's activity (traveling, hours searching for whales)

Direction of initial search (and explanation):	NE
Time spent actively scouting/# people looking:	4/9:04
Time spent in travel/tow/assistance to other boats/on "break":	NA

Notes: BO1, BO2, NUK1, NUK3, and probably IAN headed NE or ENE. IP1 and IP2 left Cross Island headed north for 16 or 17 miles and then turned east. BO1 spotted a whale about 8:05am (BO1_091309a). IP1, IP2, and NUK1 stayed to the north of the BO boats, while NUK3 was well to the east of them. IAN may have been near NUK1 or NUK3. When NUK3 reported seeing a whale about 10:00am (nuk3_091309a, nuk3_091309a') IP1, IP2, and NUK1 (and IAN) increased speed to join NUK3. BO1 and BO2 delayed doing so until 10:18am or so, when they went east at high speed to join in chasing the NUK3 whale. The NUK3 boat radioed their coordinates to the other boats about 10:09am (NUK3_091309b). NUK3 reported striking the whale at 10:35am (nuk3_091309d) but it seems likely that it may have been a bit earlier (nuk3_091309c, 1034). Similarly, the Com Center recorded that the NUK3 boat used their shoulder gun at 10:39am (nuk3_091309f) when it likely was a little earlier (nuk3_091309e). The whale was declared dead no later than 10:55am (NUK3_091309g). The whale was small (later measured as a 20'4" female), so the whalers decided to try to land a second whale. BO1 (and the boats with them) saw a different whale about 10:49am (BO1_091309b). BO1, BO2, IP1, IP2, and probably IAN followed this whale north at high speed soon after the NUK3 whale was declared dead. IP1 turned back to the NUK3 whale about 11:11am to help with the tow. The NUK2 boat was called to help with the tow but due to miscommunications NUK2 did not meet the tow until 2:54pm or so. The boats that followed the BO1 whale north made a loop about 6.1 miles to the NE, and then headed back to Cross Island to refuel. On the way back to Cross Island BO1 saw something about 2:00pm (bo1_091309c), and BO1 made an "extra" loop about 5.1 miles to the NW. BO1 did not report sighting anything of interest. This delayed BO1's return to Cross Island and, with conditions getting more marginal, BO1 did not make a second trip. On the tow back to Cross Island, IP2 saw a whale at about 1:36pm (ip1_091309a) and slow to look around at about 1:40pm (ip1_091309a'), but did not report seeing any sightings. They returned to Cross Island, rather than rejoining the tow, since by that time NUK2 had joined the tow and they were not far from Cross Island. BO2 made a second trip of about 2 hours to the north and NE, and reported no sightings. IP1 and IP2 made second trips of 3.5 and 2.5 hours to the east, to areas where whales had been seen before. They also reported no sightings.

Observations of Whaling Crew - weather, sea state, ice-conditions

Fog or clouds?	morning	Weather notes:	BP 29.6 and rising
Wind Direction:	North	Wind speed and other notes:	2-12 mph, wind northerly
% Ice Coverage:	0	Ice Type:	NA
Wave Height:	small	Other notes on sea conditions:	Conditions good, but not as calm as 9/12

Other pertinent notes: Fog on Cross Island in the morning, some on the water but burns off

Note: Cross Island weather observations are compiled in a separate file (weather station + observer)

Engaged in any other subsistence activities? No If yes, describe below

GPS track? Yes GPS Track Name: NUK3_091309.gdb

If not, why not?

Use Reverse For Additional Notes or Information