

2025 Periplus to Northwest Passage for small vessels - 12th Edition



In those Northwest voyages where navigation must be executed in most Exquisite Sort" (John Davis 1594)

by Victor Wejer, Toronto, Canada, January 2025
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The feedback of many NWP sailors collected over the years with most grateful contributions and review by Antonin Barrier-Moulis (A.B.) Mirabelle, Eric Brossier (E.B.) Vagabond, Steven Brown (Novara) Novara, Ken Burton (Nadon), Tom Zagon (T.Z.) Canadian Ice Service, Jimmy Cornell (J.C.) Aventura, David Cowper (D.C.) Polar Bound, Mélissa Sauvé Dupont (M.D.) Kluane, Graeme Esarey (G.E.) Dogbark!, Étienne Gros (E.G.) Kluane, Henk Haazen (H.H.) Tiama, Susanne Huber-Curphey (S.H.) Nehaj, Richard Hudson (R.H.) Issuma, Capt. W. Jacobson (W.J.) Vagabond'eux, Michael Johnson (M.J.) Gitana, Andy Jamieson (A.J.) Infinity, Juho Karhu (J.K.) Lumi, Claudia Kirchberger (C.K.) La Belle Epoque, George Laycock (G.L.) Migration, Robin Kisling (R.K.) Margane, Jens Kjeldsen (J.K.) Kigdlua, Piotr Kuźniar (P.K.) Selma, Ernie Lyall (Taloyoak), Eric Maffre (E.M.) Breskell, Gerd Marggraff (G.M.) Thor, Vincent Moeyersoms (V.M.) Alioth, Bo Mogensen (Aasiaat Radio), Arthur J. Osborn (J.O.) Empiricus, Ali Parsons (A.P.) Arctic Tern, Randall Reeves (R.R.) Möli, Tim Riley (T.R.) Lumina, Larry Roberts (L.R.) Traversay III, Robert Shepton (R.S.) Dodo's Delight, Clive Shute (CL.S.) Kamaxitha, Charlie Simon (C.S.) Celebrate, Wolfie Slanec (W.S.) Nomad, Enrico Tettamanti (E.T.) Plum, Richard Weber (R.W.) Arctic Watch, Adriano Viganò (A.V.) Voyager, Eef Willems (E.W.) Tooluka, Carl Zaniboni (C.Z.) Salty. Intended to be updated annually.

The RCC Pilotage Foundation book *Arctic and Northern Waters* by Andrew Wilkes (publication by Imray, Laurie Norie and Wilson in May 2014) . 2nd Edition Published: 01 Nov. 2020 ISBN: 9781846239311 covers everything you will want to know about sailing in Arctic waters. It includes detailed passage planning and selected port information for Faroe, Iceland, Greenland, the Northwest Passage, the Northern Sea Route and their approaches.

This *Yacht Routing Guide to the Northwest Passage* by Victor Wejer is a compilation of further port and anchorage information which will be updated annually. The RCC Pilotage Foundation is very pleased to be able to make this guide available to you via a download from the RCCPF website. However, the RCCPF has had no part in the production of this guide and accepts no responsibility for the accuracy of the information contained within.

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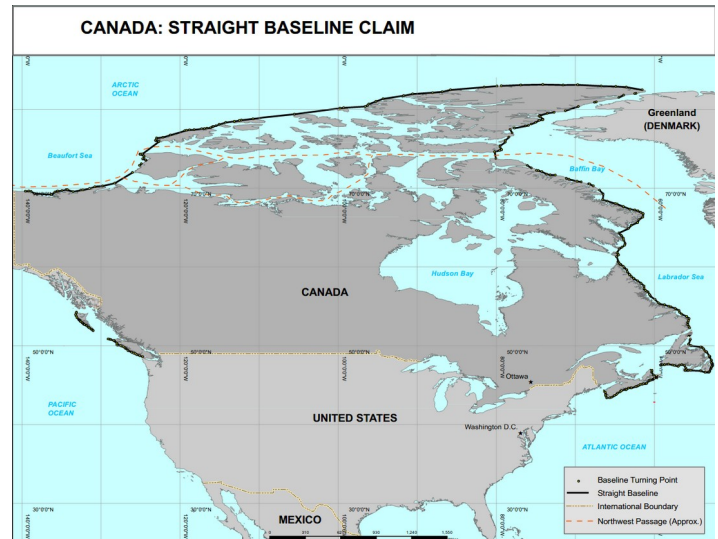
This guide contains selected information and thus is not definitive. It does not contain all known information on the subject in hand and should not be relied on alone for navigational use; it should only be used in conjunction with official hydro-graphical data. This is particularly relevant to the plans, which should not be used for navigation. The information provided in this guide may be out of date and may be changed or updated without notice. The RCC Pilotage Foundation cannot accept any liability for any error, omission or failure to update such information. To

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Canada Sovereign Territory



East coast Baffin Is. Heading North

Eastern seaboard of Baffin Is. and Labrador coast is known for its constant fog and icebergs flowing with Labrador Current south, it is not a recommended route for any sail boat to cruise those waters. Most of the navigation charts are not very precise including Canadian and many electronic. See final notes on Arctic Charts.

Kimmitut (Lake Harbour) 62°51'N / 69°52'W.

Located above tree line. Very safe harbour from all winds. Village with all support and airport. Tricky approach due to many small rocky isles and shoals. Most of approach covered by chart 5455 is not surveyed. Charts position WGS84 may be off by 2 Nm. Local Inuit Pilot at Beacon Is. 62°42'N / 69°43'W can be get at times. It has wooden pyramid. Anchorage 0.4 Nm SE of Sealer Narrows is not recommended in bad weather. Tidal stream in Lake Harbour is negligible. Used by whalers in 1800th. (inf. by Ernie Lyall).

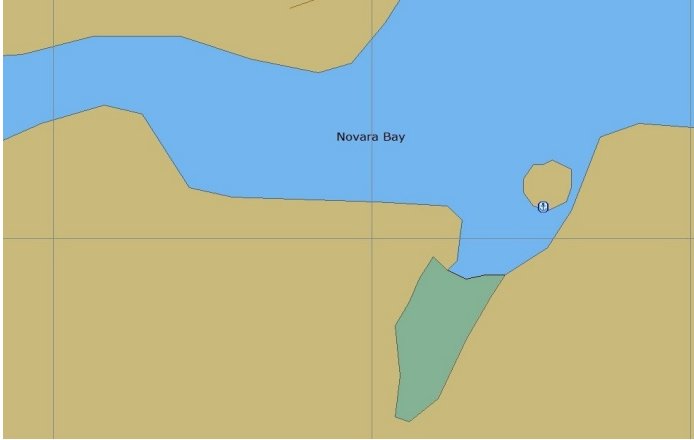
Clephane Bay 65°54.50'N / 62°28.40'W.

Anchored in 15m with good swinging room, fair holding and excellent protection. Estimated the Navionics charts were off 0.25 Nm to the south and the Cmap NT+ gave position as 65°54.21'N / 62°28.47'W (Novara).

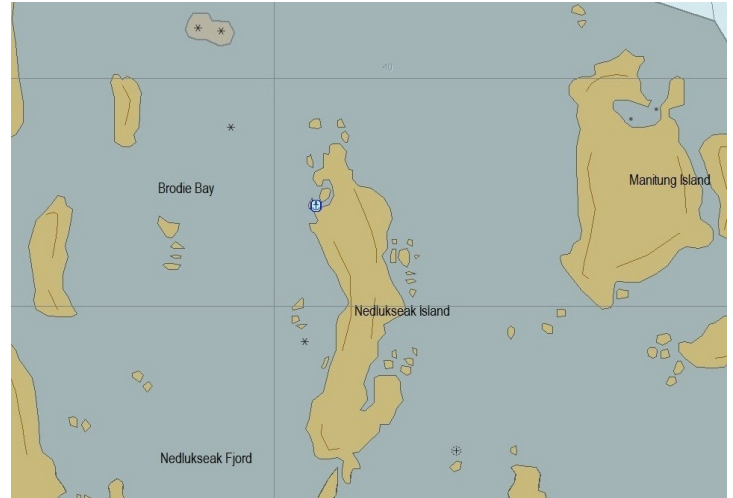
Pangnirtung – 66°08'N / 065°50'W. Accessible 0.6 Nm NW off landing beach. Poor holding. Sudden gales. Fuel and water from village, Airport.

Novara Bay (own name) 66°48'N / 61°37'W.

This bay 15 Nm north of Cape Dyer is offering greater protection than the bay 5 Nm to the south that is mentioned in the sailing directions. The Cmap charts are reasonably accurate except for a small islet. This islet is not shown on the Navionics charts but these also proved to be out by some distance. Some other charts show position of islet. Anchored in 14m with good holding just off the rocky shore. The entrance to the bay was partially blocked by the 2014 winter fast ice. (Novara).



shelter. Inside rocky cliffy cove with 23 mtr. depth. Rocky bottom with 250 ft. swing room. Wind can funnel between the mountains. Stream for fresh water. Charts still ½ Nm out. (Novara) (E.G.)



Cape Dyer 66°39'N / 61°21' W. Anchorage in Sunneshine Fjord. Fair holding but poor shelter. Strong tidal stream. Sudden gusts, Radiobeacon, Airstrip.

Coronation Fjord 67°12'N / 64°45'W.

A Spectacular anchorage about ¼ Nm off the calving face of the glacier. Found an alluvia flat to anchor in about 15m with good holding surrounded by high rock walls and within touching distance of the glacier. (Novara).

Broughton Is. Qikiqtarjuaq 67°33'N / 64°01'W. Very good holding with shelter available. Charts are off to the west. No reliable GSW84 positions. New small craft harbour with 1.4 mtr. depth at low tide and subject to small swell. Co-Op fuel truck available for \$150,- on-call fee on Saturday. Airport.

Okoa Fjord 67°38'N / 065°59'W.

Anchorage in deep water off a side glacier run off gully, sitting anchor and 3:1 scope without digging in to avoid snagging any big boulders. Another spectacular anchorage beneath huge cliffs.

Expect sudden torrential rains turning all trickling streams into torrents and 100's of waterfalls. Hanging glacier an indeterminable distance up galley does not give safe feeling spot! For a mountaineer it would not do to be avalanched boat! (Novara).

Nunatsiaq Island: Charts inaccurate. Rocks along bay shores but ceter of channel is clear. At entry minimum depth 12 tr. Center of bay is 50 mtr. Anchor at 67°58.6'N / 65°21.6'W in front of old camp. In 12 mtr. With good holding mud/clay lots of swinging room. Beautiful scenic views. (E.G.)

Nedlukseak Island: 68°07'N / 65°54'W.

Within strong headwinds anchor in a small bight on the W side of the island in 8m close to the shore to gain the most

Tanner Bay – Cape Hooper – C-maps and Raster charts for Cape Hooper Upper & Lower Anchorage and Approaches are off. (Novara). Important notes at Chart 7193 are placed and separate for Approach parts that state "...correction must be moved 2' 11" southward and 3' 26" eastward to agree with this chart".

Lower Anchorage 68°26'N / 66°48.5'W.

Open to the South and east with strong gusts coming down from the high cliffs. Good holding in 15m but uncomfortable in strong winds. Offset 2.5 Nm from Navionics charted position. (Novara). For Lower Anchorage CHS states "...correction must be moved 2' 12" southward and 3' 29" eastward..."

Upper Anchorage – Cape Hooper – 68°27.6'N / 66°48.7'W.

A far better anchorage offering good shelter and good holding in 10m to 15m.

An emergency shelter and service huts ashore. 2.75 Nm offset from Navionics charted position. (Novara). For Upper Anchorage CHS states "...correction must be moved 2 minutes southward and 3' 36" eastward..."



Cape Hooper 68°24.6'N / 66°37'W. Poor holding and open to NE winds is obtainable. (Novara).

Arctic Harbour, Aulitiving Island 69°31'N / 067°33'W. Little shelter that can be filled outside with many icebergs. The position according to the GPS is about 4 miles further west, so during approach it was interesting to find sailing way over the island. "Well protected, strong S winds, no ice. Plenty of ice outside at sea. Holding was good." (E.W.)



Clyde River 70°26'N / 68°37'W . Very good holding and protection from all except southerly winds. Its WGS84 location may vary by 0.35 Nm West. Foggy place mornings and evenings. Good place to clear entry to Canada. Fuel from village, water from stream. Airport. New small craft harbour will be completed in 2026. Fisheries and Oceans Canada is manage the construction and maintenance of the harbour. It will be first harbour in Eastern Arctic to provide uninterrupted services including proper refuelling.

Sam Ford Fjord
Kigut Peak anchorage – 70°32'N / 71°00'W. A superb anchorage on the south side of Sam Ford Fjord at the mouth of a river and wide valley leading to glaciers and mountains. Spectacular mountain scenery. (Novara)

Sam Ford Fjord - Walker Arm 70°33'N / 71°26'W. An amazing anchorage under enormous rock walls. Deep water anchoring and lines ashore. Place of Dodo's Delight and Bob Shepton plus Piolet D'Or team for climbing. (Novara)

Sam Ford Fjord South Side 70°45'N / 70°27'W. Anchor in a small bight on the southern entrance to the fjord behind a rocky promontory. Fair shelter from the South and west but open to the north and east. Poor holding. (Novara)

Cape Eglinton 70°47'N / 69°25'W. Take the last chance of a good anchorage under the lee of Cape Eglinton in 8m with good holding. Protected from the north and west this anchorage would be exposed in winds from the south and east. The charts are reasonably accurate along this stretch of coast. (Novara).

Round Island 72°09'N / 74°38'W. A poor anchorage but useful in the strong northerlies. Anchored on a shelf in 20m close to shore. Inadvisable with winds from any other direction. (Novara).

Greenland, West Coast

Smallesund Havn 61°33.089'N / 49°15.651'W, we marked it on our Navionics. We were surprised that the Sailing Directions gave clear instructions to take this path. The bottom came up to abrupt stop at 2-3 knots of speed. We struck our keel as we draw 2 mtr. where the center pin is located, while on our way to the "preferred anchorage". Avoid 7 mtr. sounding given path on the chart. (J.O.)

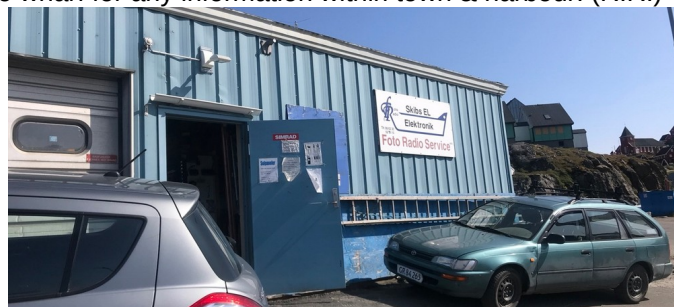


Irkens Havn 63°04'N / 50°47'W Eqalugissat on Mannisaat Is. (R.S.)

Nuuk 64°12.88'N / 051°46.34'W. Easily accessible fuel dock in the Eastern Corner of Quinnorput Bay, with 3 meter depth at low tide. (V. M.) As of 2024 entry for cruising sail boats is off limits into Harbour. Only for Cruising Ships. Other places nearby are opened at anchor. Fees for berth at Greenland's harbours are free except at Nuuk.

Sisimiut 66°56.45'N / 53°41'W. Western approach has to be taken carefully. There are underwater rocks near fairway. Head to 66°56.76'N / 54°10'W from that point take COG 90° to 66°56.76'N / 53°55'W then follow COG 92.5° onto range beacons 2 sec. yellow light and 4 sec. yellow light for about 5.6 Nm. Then red light on starboard into the harbor. Tides may exceed 4.5 mtr. Sisimiut has airport accepting only STOL aircrafts for local flight. Facilities for fuel, repairs and medical assistance with possible wintering on dry. Cost for 19 ton 40 feet boat is DK 2740,- for haul out & lunch plus some monthly charges.

Mr. Bent Lyberth is no longer there with help in harbour as he retired. Contact Skibs-EL, Foto Radio Servicelocated next to wharf for any information within town & harbour. (R.R.)



Ilulissat (Jakobshavn) 69°13'N / 51°05'W.

Attractive place due to its proximity of one of the most productive glaciers named **Sermeq Kujalleq**. As one of the major harbours it can get filled with ice growlers and floes with no warning and it happens every year. According to some theory one of the ice bergs from this glacier caused collision with RMS Titanic on April 14th 1912. This led to the establishment in 1914 of the [International Convention for the Safety of Life at Sea](#) (SOLAS), which still governs maritime safety today and since 1913, the United States Coast Guard has been tasked with the management and operation of the patrol, known as the [International Ice Patrol](#). As of 2024 entry for sail boats only for refuelling. Anchor outside harbour.



Important to point out that the safest anchorage in the Sortehul is:

Qornoq kangigdleq 72°44'N / 55°44'W. Shelter can be had either side of the promontory depending on wind direction. In the **Sarpinat** 72°46'N / 56°04'W for smaller bolder boats there is a more sheltered anchorage in the south west corner, gained by going close in along the southern rocky shore. Beware of rock at the end to starboard. Good when you get there! This was base camp for the first ascent of Sanderson's Hope AD2000 (R.S.)

Upernavik 72°47'N / 056° 08.8'W. Good place for start toward Lancaster Sd. or Pond Inlet. Anchorage is poor with rocky bottom exposed and roly. Ask the Polaroil folks about that when to arrange for fuel. They take credit cards and the number is +299 86 84 07. (G.L.) Should you need a taxi there is one in the area. The phone number is +299 49 25 00. Moor at floating pontoon if there is a place. (G.L.)



Qaanaaq (Thule) 77°27'N / 69°14'W.

A safer anchorage has been reported ("*Tooluka*", 2012) to the west, on the western side of the drying reef. "A shallow bay gives wonderful protection there from SE wind and ice, as only the smallest of pieces of ice can move over the reef at high tide." But there is only a narrow passage to get into this bay. 77°27.8'N / 69°17'W least depth on entering: 3,5 m., close to low water. In the bay itself it gets a little deeper. Attempts were made to find a way out of the bay further west, successfully. There may be a deeper passage, but that would need reconnoitering. Small Hospital, Airport (R.S.)

Northwest Passage Heading East through Fury & Hecla

Starting at Brentford Bay the usual Way Points that icebreakers take are:

- WP0083 - 71° 30.00'N,092° 00.00'W
- WP0084 - 69° 55.00'N,088° 00.00'W
- WP0085 - 69° 55.00'N,086° 00.00'W
- WP0086 - 69° 56.00'N,085° 30.00'W
- WP0087 - 69° 55.00'N,085° 00.00'W
- WP0088 - 69° 52.00'N,083° 15.00'W
- WP0089 - 69° 48.00'N,083° 00.00'W
- WP0090 - 69° 46.00'N,082° 50.00'W
- WP0091 - 69° 43.20'N,082° 40.00'W
- WP0093 - 69° 42.30'N,082° 30.00'W
- WP0094 - 69° 41.50'N,082° 27.00'W
- WP0095 - 69° 41.50'N,082° 00.00'W
- WP0096 - 69° 37.00'N,081° 30.00'W
- WP0097 - 69° 25.00'N,081° 00.00'W
- WP0098 - 69° 07.00'N,080° 30.00'W
- WP0099 - 67° 06.70'N,080° 30.00'W
- WP0100 - 63° 48.00'N,078° 20.00'W
- WP0101 - 63° 48.00'N,076° 00.00'W

Fury & Hecla Str. 69°55'N / 84°34'W. It is very wide strait with few anchoring places near northern shores. Southern shores despite charts showing some deep enough points are mostly shallow with drying rocks in many places. Constant Easterly currents regardless tidal stage 2-3 kt. Approach only when ice is less than 1/10. Magnetic variation reaches 48° W.

Labrador Narrows 69°43'N / 82°37'W.

Avoid sailing west through Labrador Narrows as it is only good for crafts with powerful engine. Approach 2 hrs before LW slack at Bonne Is. Tidal Station. Currents are well above 5 kt. heading East. Keep center of strait as counter currents and eddies are present. It is not very long strait at about 3.5 Nm and it could take only approx. 20-30 minutes to make it. Extra time to use before slack will be spent to clear notorious cross currents and eddies on the east side of Narrows into Foxe Basin. No any known safe anchoring places available. After completing, the nearest place to rest is Igloodik Island with Inuit village of the same name.

Igloodik 69°22'N / 81°45'W.

Good sheltered place to anchor in Turton Bay off landing beach. Approach only from East. Watch for kelp and some rocks on the E. & SE of island. The village is very active with all supplies available. Airport.

Foxe Basin

Heading to Cape Dorset. You will need about thirty hours to cross Foxe Basin, very shallow, very much unsurveyed. And currents are strong and unpredictable! (E.B.)

Kinngait - (Cape Dorset) 64°14'N / 76°33'W.

It is accessible from Hudson Str. With approach from the East. Nice Inuit village with all supplies available. Airport services.

Expect to see first ice bergs in Hudson Strait and turbulent eddies with high tides.

Next stop will be in Labrador, not at Button Islands.

Northwest Passage Heading from East to West

The major note from David Scott Cowper (Mable E. Holland, Polar Bound).

"The boats that come up to the Arctic are entering a hostile area weather-wise and should be fully aware that their boat must be capable of withstanding 80 mile per hour winds, ice and being nipped in the ice, which could easily crush their vessel, and make provisions for encountering these conditions with possibly the carrying of sledges, tents, extra food, skis, chainsaws, come-ons etc.. In addition, they should have very good heavy duty ground tackle. Another important item in my view, is that all boats should carry enough paper charts as opposed to relying on electronics." ... "Venturing forth in many cases in unsuitable vessels which are not strong enough to deal with robust conditions. If I was advising anyone on a suitable boat, strength would be the major factor at the expense of speed. I would also insist on about four watertight bulk heads up

to the deck level to give a boat a fighting chance if it was holed of being able to survive. The other areas on a boat that are vulnerable are, of course, the prop shafts and rudder" ...

Albert Harbour 72°45'N / 77°26'W, separated by Beloeil Is. from Baffin Is. within approaches to Pond Inlet. Entry from east with good holding in mud and sheltered from all winds. Ice may drift in. Exit can be done at the west end with caution between Baffin Is. and small isle on the west side of Beloeil Is. Used by whalers at the end of 1800th. GPS coverage is nil due to high cliffs obscuring satellite signal. (M.J.)

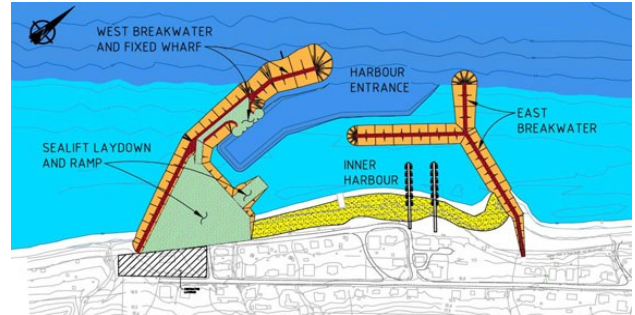


Albert Harbour by Arctic Tern

Pond Inlet 72°41'N / 77°58'W.

Open anchorage under constant threat from heavy ice

flows is no more with completion of New Harbour for small crafts as of end July 2022. Entry to it with 2.5 mtr. depths at low water. Fuel and water from village by truck hose directly to your boat instead using own tender off shore swelly beach. West fixed dock is subject to swell. Proficient machine shop available for repairs. Good place to clear entry to Canada. Airport. In the fjords some 40 miles south west of Pond Inlet, and south of Eclipse Sound: Charts may differ from GPS positions by as much as 1.5 Nm.



Emerson Island 72°22'N / 79°03'W.

Several possibilities for anchoring in the open bay on west side of island. (R.S.)

White Bay

Anchorage can be made on west shore of White Bay, on the south side of the small spit on east side of **Curry Island 72°26'N / 79°25'W**.

It may be possible to anchor on the north side, but beware of an extensive reef across the entrance. (R.S.)

Cape Hatt 72°29'N / 79°46' W. Small bay south of Cape Hatt offers excellent shelter from nearly all winds. See soundings. Anchored in 25 ft. 200 ft. off E headland w/only 3-1 scope. Its landlocked feature was used by many Arctic sailors. (R.R.)



Deep Cove off Milne Inlet 72°11'N / 80°24'W.

Strongly recommended by "Jonathan III" (2011) (R.S.)

Milne Inlet and part of Eclipse Sound is environmentally protected area and entry to it should be avoided unless coming storms are directing to use its shelters.

Tay Bay 73°30'N / 80°43.0'W – Navy Board Inlet. Muddy clay bottom with fair holding. Good shelter from just all winds and ice for small boats but restricted as is part of Sirmilik National Park that requires special permit to enter. Otherwise severe judicial penalty applies.



Wollaston Islands

a.k.a. Wallaston Islands 73°43'N / 80°55'W. At north side of biggest islands that has small bight indentation of shore line, attempts were made to anchor at approx. 73°43.8'N / 80°58.0'W in 4 m. During gusty SE 8-9°B anchor was not holding at all. Most likely due to its rocky bottom. (W.J.)



Navy Board Inlet is known for its tunnel like accelerated winds mainly due to its high elevation shores as it is barely 4.5 Nm wide at its narrowest point. (W.J.)

Elwin Inlet 73°21'W / 84°W, very deep up to shores, no good for small sail boats anchorage.

Baillarge Bay 73°23'N / 84°41'W, very deep up to shores, no good for small sail boats anchorage.

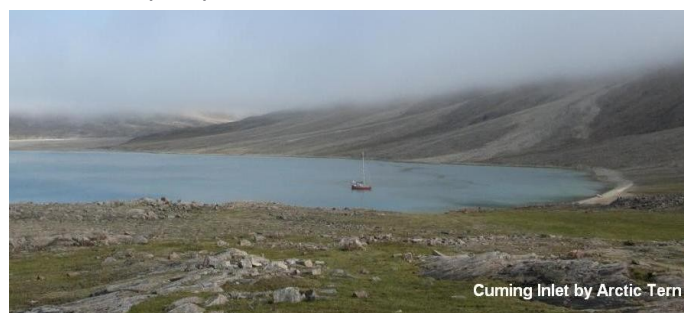
Nansivik Mine 73°04'N / 84°33'W – Admiralty Inlet. Excellent holding. Solid wharf available for mooring. May have some construction workers camp. Access to Arctic Bay airport. 2.5 Nm east of wharf good anchorage can be found further in English Bay. No fuel or water.

Arctic Bay 73°01'N / 85°07'W. Excellent holding. Fuel, water from village. Airport.

Dundas Harbour 74°32'N / 82°25'W and Johnson Bay 74°31'N / 82°23'W – Lancaster Sound. Former RCMP outpost over the ridge. 2 locations. Deeper into the bay better shelter can be found during northerly gales.



Cuming Inlet 74°34'N / 85°W. A superb fjord, a bit of trip up to anchorage well worth it. On west side anchorage with protection from the north. A bay on the east side further up providing protection from the south, good holding. Muskox and walrus. (A.P.)



Burnett Inlet 74° 36' N / 86° 10.2' W. Burnett Inlet is a great stopover on the N side of Lancaster Sound. The fjord entry is wide and deep, easily entered in fog. The bay is deep and matches the charts on Navionics. Anchor toward head of the fjord between a small island and the coastline in 10 mtr. and had good holding on mud, sand and gravel. The anchorage has good protection from all directions but a strong southerly a little swell around the corner. It gets shallow very fast toward streams at head of fjord. Abundant Wildlife — walrus, polar bears, and belugas. There are several beaches to get land access by dinghy. (A.V), (G.M.)



Stratton Inlet 74°30'N / 86°38'W. Good anchor at the head of the inlet (A.P.)

Hobhouse Inlet 74°30'N / 87°00'W.

Very deep up to shores, anchor in NE end. Charts are off by approx. 0.4 Nm West. Chart by "Tooluka". Anchorage at 74°50.2236'N / 87°00.7635'W. Some sailors liked it, some didn't. (E.W.) No settlement.

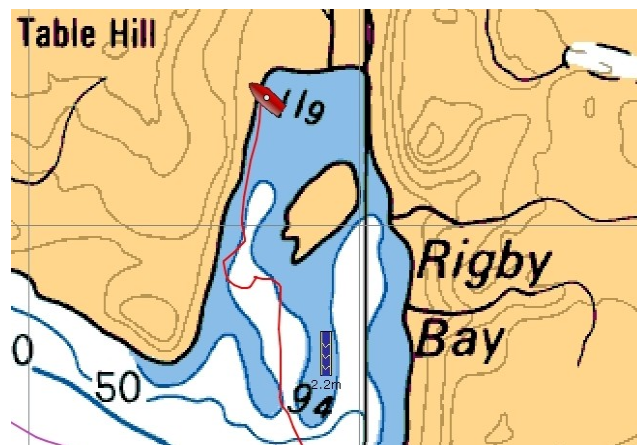
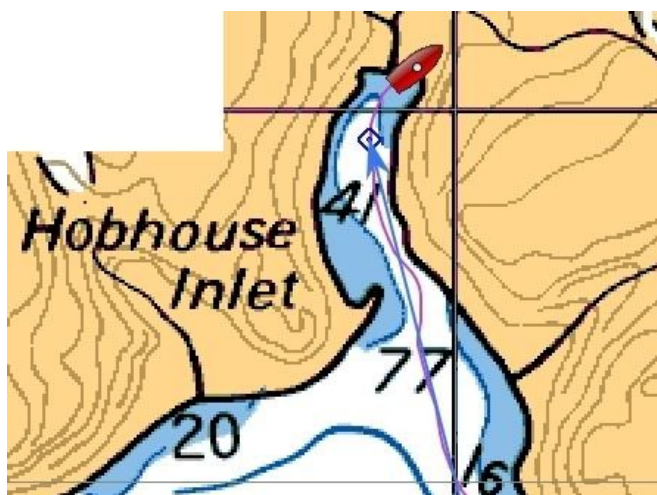


Hobhouse Inlet by Libellule

Rigby Bay 74°34'N / 90°03'W used by "Tooluka" in 2013 for shelter. The unnamed island position in the middle is off by some 0.2 Nm west. Entrance found close to the west shore. Anchored at 74°34.992'N / 90°02.8192'W good holding. No settlement. (E.W.)



Rigby Bay by Arctic Tern



Blanley Bay 74°30'N / 87°24'W.

Good for short stop over, unknown depth anchorage. No settlement.

Graham Harbour 74°31'N / 88°10'W.

Excellent anchor past mid spit and shelter from all winds and ice. Soundings by (C.K.) No settlement.



Scallon Cove at Radstock Bay 74°45.40'N / 91°10.70'W, used by few boats in 2013 for shelter. Good holding and good shelter from all but SSE winds. Water ashore. No settlement. (L.R.), (A.P.)

Kearney Cove 74°43'N / 90°45'W, on opposite side of Radstock Bay has better shelter from SE but parts of it may be a bit deep for small boat anchoring. No settlement. (L.R.)

Erebus & Terror Bay, Beechey Is.

74° 43'N / 91°6'W

Place of three graves of late Franklin expedition crew are at the far west end. In odd years can be filled with ice and not accessible. Select Union Bay from north separated by the sand spit instead.

Resolute Bay 74°41'N / 94°52'W – Barrow Str.

Usually not accessible due to heavy ice in Barrow Str. Poor holding available for smaller vessels in open bay. Deeper vessels in open roadstead. Can be swamped with ice at no notice. Advisable to enter on western side, for depth. Fuel and water from village. Airport.

Polaris Mines NW off Resolute. 75°23'N / 96°53'W.

Sheltered from all directions.

Bridport Inlet, Melville Is. 75°01'N / 108°45'W.

Good for large vessels available off south shore.

Arctic Watch 74°04.2N / 93°48.7W, at Cunningham Inlet north side of Somerset Is. Never listed by any Pilot Books. It is an Arctic Lodge a tourism establishment for wildlife viewing since 2000. Entry to it is prohibited.



Port Leopold 73°51'N / 90°18'W – Prince Regent Inlet. Water in harbour has a dangerous looking light tinge. Anchoring quality fair. Shelter from N winds, ice may enter any time. Abandoned HBC outpost. In past used by whalers and Thule.

Batty Bay 73°14'N / 91°24'W - Somerset Island. Kennedy wintered there. Tides are 1.2 to 2.1 m. Good shelter from almost all directions except a strong easterly winds. Shallow area of 2 meters depth almost all along the entrance to the bay, except at the southern side where there a channel depths is around 6 meters, in good visibility you can see the channel if you have a person on the first spreaders of the mast. Good holding at the head of the bay in 10 meters in front of river mouth.

Some ice moving around inside the bay on the currents.

The way points to follow in and out of the bay are:

WP1 - 73° 13.33'N / 091° 22.27'W

WP2 - 73° 13.29'N / 091° 22.60'W

WP3 - 73° 13.33'N / 091° 23.13'W

WP4 - 73° 13.50'N / 091° 24.50'W

WP5 - 73° 13.62'N / 091° 24.83'W (H.H.)

On Northern shore in small cove poor holding in rock and kelp but good shelter in 10 mtr. and good landing beach. (E.G.)

Cresswell Bay 72°40'N / 93°00'W, generally shallow with few soundings and leading nowhere.

Port Bowen 73°13'N / 89°00'W. Parry wintered there. Avoid south point entrance. Anchorage at North Cove in 8 m.

Point Neill 73°09'N / 89°10'W. Well sheltered in NW part, mud with good holding. No settlement.

Fitzgerald Bay 72°09'N / 89°45'W, has very low and fronted shallow waters. Pilotage there is tricky with sand banks.

Levesque Harbour 71°54.6'N / 94°28.2'W. Off Smellie Point offers safe anchor from all winds. Used by M'Clintock and many other since 2013 during gales. No settlement.



Brentford Bay west approach or east approach.

No entry to **HAZARD INLET** please. The entry to it is unknown despite the charts are showing 7 mtr. Its good place for kayak. Just avoid it. The same applies to Port Kennedy and Possession Point.

Many different nautical charts show the area with different soundings or unknown. The Icebreakers use there only one and is safe to Fort Ross in Depot Bay to follow those WP's from the north/south on the Prince Regent Inlet side:

WP1 - 71° 57.00' N / 093° 50.00' W

WP2 - 71° 55.50' N / 094° 03.00' W

WP3 - 71° 56.50' N / 094° 08.00' W

WP4 - 71° 57.45' N / 094° 12.50' W

WP5 - 71° 59.30' N / 094° 12.50' W

WP6 - 72° 00.00' N / 094° 13.00' W

The same applies for, in reverse when leaving Brentford Bay heading East.

Note for Bellot Strait Crossing:

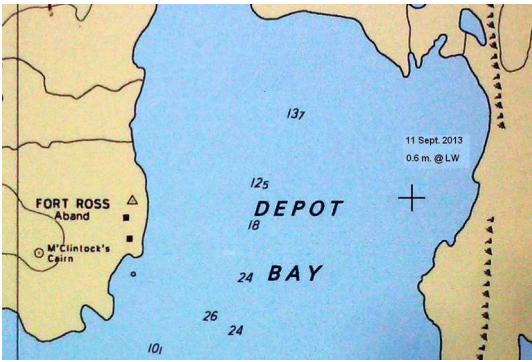
The entry to Bellot is described in ARC 402 and 403 that you should have. 1.5-2 hrs. before High Water at Ft. Ross for westbound route enter following range beacons to avoid Magpie Rock if you can see them. In the strait keep rather to the north side as south side gets counter currents. On the exit no short cuts. Sail out strait ahead west for at least 5Nm. Stay away from Pemmican Rock.

For eastbound enter center of Bellot Str. 1.5-2.0 hrs. before Low Water at Ft. Ross, watch for Magpie Rock eddies at the exit to Brentford Bay. Timing of tides in Bellot from Canadian source is not accurate and differs about 90-105 minutes sooner than reality. Use WxTides32 from Open CPN table. It is much different approach than to those French Tides model. There is no anchoring or mooring place in the strait that can be safely used.

Depot Bay at Ft. Ross 72°00'N / 94°13'W.

Anchorage in mud and gravel good for W winds only. Anything from WNW to ENE Gale force winds should be avoided in Depot Bay. Communication by VHF radio limited with west end of Bellot Str. At 72°00.65'N / 94°12.10'W shallow water of 0.6 m. during ebb.

Place may get engulfed with dense fog with no warning. Abandoned Hudson's Bay Co. outpost, new book inside south hut to sign by visitors. The key to the hut may be found under the stone at right hand corner of hut if new lock was installed as original key was misplaced by some visitors during 2013/2014. Otherwise no key, use door knob handle. Replace wooden planks upon leaving. Drag the dinghy to a spot beyond the reach of the high tide. Pepper spray dinghy to prevent damage by Polar Bears.



Near Ft. Ross a good shelter from ice and wind can be found in a bay WSW off **Brands Is.** at 71°57.70'N / 94°29.0'W. Holding is fair and shelter excellent. Entry can be taken via the channel south of Brands Is. Care must be taken on this route as, channels is generally deep, there are shoals and rocks that covers & uncovers during tidal water levels, some of which are uncharted. (L.R.) In addition to this note more explanation is provided from Larry. A lot of eddy currents develops in that area in the strongest parts of the tidal flow. During two attempted transits of the Strait and final successful transit, it was noticed the drifting ice was bunched together with considerable force in those eddies.

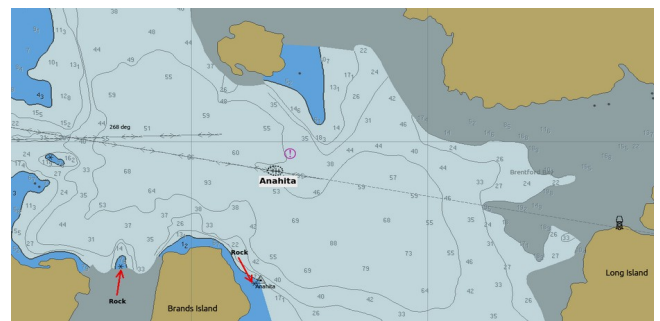
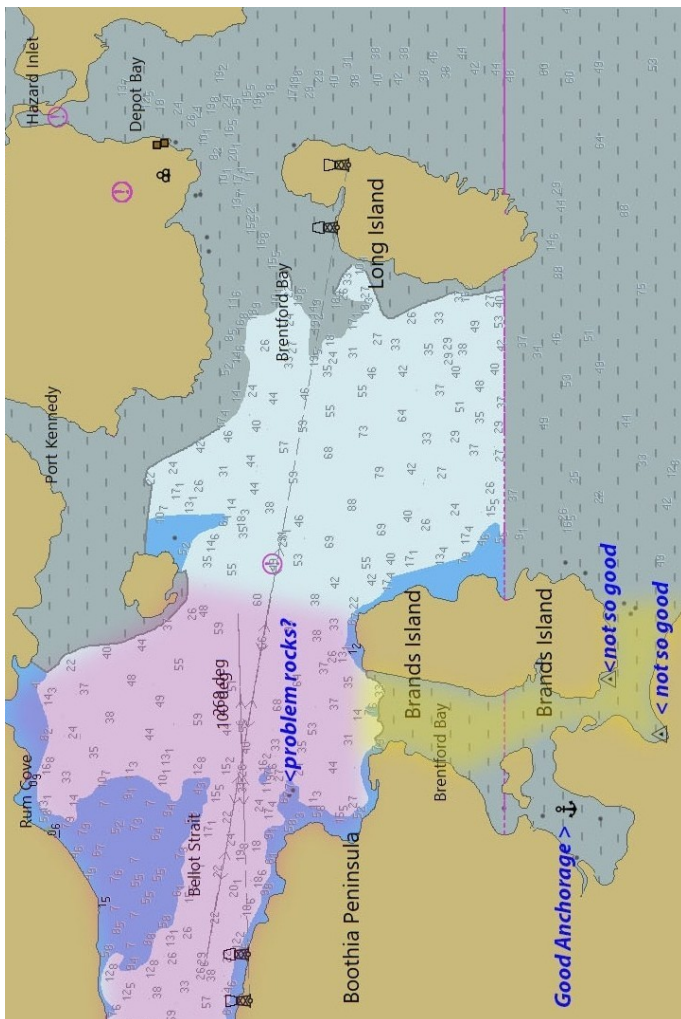
Concerned to stay well away from such moving ice. Marked in pink on the attached chart the areas thought were worst; though imagine with a lot of ice, there would also be a lot of pressure between Brands Island and Long Island and even into the channel between Depot Bay and Long Island.

The area referred to containing unmarked shoals was out of the main tidal stream; marked it in yellow. This area had much less current but the ice **was** moving in wind and current and ultimately caused to reject anchorages at the two triangle marked spots.

They are at bay 71° 57.7'N / 94° 29.0'W and small bight 71°57.6'N / 94°25.8'W. The anchorage suggested in the area is the one marked by the anchor symbol in the closed bay to the WSW of Brands Island. While obviously, ice can be anywhere, there was no current in this bay and do not believe there is enough fetch for wind driven ice to seriously threaten a small vessel. Still recommend this anchorage but, in the light of the events of the last 2018 summer, the approach and exit south of Brands Island might be the safer one, particularly if there is ice around.

The eastern approach to Bellot is very unfriendly other than at slack water. The description of ice coming from every direction is very much what can be expected when the tidal current is flowing. It is a very serious place for small boat navigation!

Approximate wreck location of 2018 "s/v Anahita" (FRA) is at 71°59.48'N / 094°25.15'W in 48 mtr.



South of 71°06'N the electronic charts end displaying much details of shore line and soundings of Boothia Gulf. Sailors need to maintain extreme caution.

Cape M'Clure 72°54'N / 96°41'W – Peel Sd. Channel between Prince of Wales Is. and Pandora Is. nearly always blocked by shallow waters. Not for navigation.

Young Point 72°41'N / 97°00'W – Peel Sd. Very shallow bay with excessive shoaling at the mouth of streams.

Morgane Inlet (own name) 72°05.506'N / 95°06.311'W Peel Sd. south of Fitz Roy Inlet. Anchor in 6 mtr. with good shelter from N and E & SE winds. (R.K.)

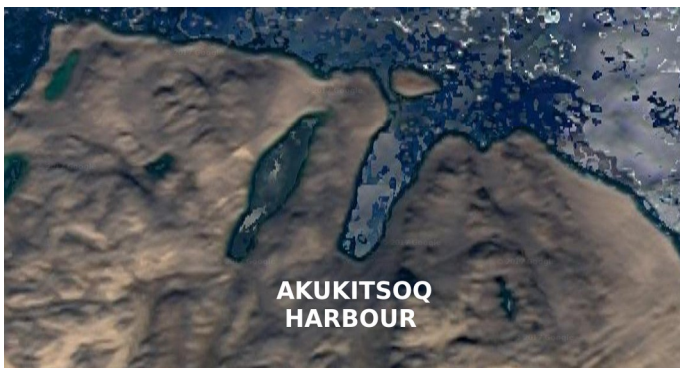
False Str. 71°59.3'N / 95°08'W – Peel Sd. Shelter from all but westerly winds. Good holding 1 Nm within entrance in 7-10 m. Preferable place for waiting out proper time before crossing Bellot Str. No settlement. (R.S.)



Willis Bay 71°56'N / 96°38'W – Peel Sd.
Good shelter from all winds with fair anchorage.

Jonathan Shoal 71°43.94'N / 95°41.30'W.
Reported by “Jonathan III” (2012) after hitting rock at 2.1 m. depth. Acknowledged by Canadian Hydrographic Service in Notice to Mariners.

Akukitsoq Harbour, (Greenlanders [those with the fur-annoraks] Harbour) - 71°50.72'N / 95°18.58'W, assumed name at North end of Gibson Is. Small Bay with good shelter from winds and ice. Near high hills offers good lookout toward Franklin Str. ice (J.K.)



Coutts Is. 071°49.537'N / 095°29.775'W, shelter from W to NNE winds & ice in the small bight on approach to Bellot Str. (H.H.)

Cape Maguire 71°34.78'N / 095°54'W, unknown name bay, very uninviting with sudden ingress of heavy ice if any in vicinity flowing in with tidal current. Avoid !!! (E.T.)

Tasmania Islands Teleport Shoal
71°19.6610'N / 96°41.0320'W, own name. Reported by “Teleport” (2011) tidal rips in apparent 40 m. depth.

Charlie's Channel – (own name), Tasmania Islands, 71°17'N / 96°39'W, the short passage between Toms Is. & Tasmania Is. used in 2017 probably first time. Tasmania Islands charts are very sketchy with not much details.

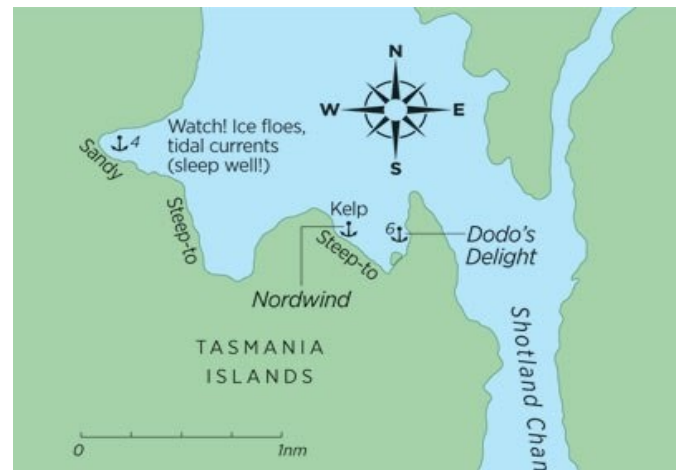
Refer to **71°11.83'N / 096°25'W Hartstene Pt.** – tidal station

The approach to the channel from the north has some difficult spots.

Way Points heading South:

071° 18.904'N / 096° 36.260'W
071° 18.364'N / 096° 38.030'W
071° 17.701'N / 096° 38.667'W
071° 17.336'N, 096° 38.399'W
071° 16.771'N / 096° 38.658'W
071° 15.959'N / 096° 38.890'W
071° 15.017'N / 096° 38.548'W
071° 14.421'N / 096° 38.887'W
071° 13.399'N / 096° 39.136'W
071° 12.247'N / 096° 39.016'W - end of route
Depth approx. 15 m. with opposite 1-2 kt tidal current about 1.5 hrs. before H.W. at Hartstene Pt. (C.S.)

Sophie Louise Cove 71°15'N / 96°32'W. Assumed name. A pleasant anchorage by a beach at the far western end of this cove. However ice floes on the unpredictable tidal currents can be a problem. See more at: <https://www.yachtingmonthly.com/tag/anchorages> (R.S.)



Larsen Sd.

Tidal currents in these waters are very prominent causing movement of ice accelerated by the strong winds. Sailing during strong westerly winds in heavy ice along west coast of Boothia Peninsula is not advisable. Reference tidal points at Admiralty Is. (Driftwood Pt.), Tasmania Is. (Hartstene Pt.), Seal Bay (King William Is.) and False Str. (Bellot Str.) can be used. Please note that some tidal points are not listed in Canadian Tide and Current Tables for Arctic and Hudson Bay, Volume 4.

Weld Harbour 71°07'N / 96°22'W, very good shelter even for winter with good steel hull boat. Jetfuel depot nearby, lots of Muskox. (E.B.) Southern part good for boats with less than 2 m. draft. Used extensively during 2017 navigation season for shelter.



Pasley Bay 70°36'N / 96°09'W – Larsen Sd. Used by St. Roch to winter 1941/1942. Place of grave & Cairn in Northern Arm of RCMP crewman. Fair holding and shelter except for W winds. No settlement.

Cape Victoria 69°52'N / 96°08'W, charts can be off by 0.8 Nm. Anchorage available at south side during fair weather only. Some shoals are reported in vicinity. (W.J.)

Oscar Bay 69°45'N / 95°39'W, offers good anchorage in sand for small vessels except for NW winds bringing ice from Larsen Sd. Watch for ingress of ice brought during tidal currents not specified anywhere. (W.J.)

James Ross Str. Has undocumented difficult currents causing shift of ice at about 6 hour intervals in its northern part. At 69°42.4167'N / 95°43.50'W chart 7760 shows doubtful shoal. The depth is 32 m. (M.J.)

Josephine Bay on the North side of St. Roch Basin. At 69°38.57'N / 94°43.8'W anchorage in 8 m. sand. Generally 20-30 m. deep. Gary River estuary offers good and safe anchorage and granite hills to 100 m. high with some shoals near shores. Sudden dense fog may be encountered in all Josephine Bay. No settlement. (W.J.)

Taloyoak (Spence Bay) 69°32'N / 93°32'W. Difficult approach. Good anchorage except in SW winds. Entrance to harbor must be held to the southeast. September gales funnel large waves into the harbor and has a very late thaw. Pilot book ARC 403 page 8-14 is a good description of approach.

At low tide when entering the inner harbor anchorage rocky in 4.9 mtr. Looks better, deeper in the bay. Inner harbor has anchor points on land for supply vessels to moor.

Daylight approach only and lots of morning fog here. Fuel at airport and fresh water available from lake few hundred feet inland of inner harbor. Two grocery stores and most friendly and welcoming village. Not acceptable port for wintering. No crane or heavy equipment. Used by only few sail boats in past. (J.O.)

AZS Bay, (own name), 68°46'N / 95°22.5'W. Place Vagabond'eux anchored in 1988 after spending three enforced winters at Tuktoyaktuk & Gjoa Haven due to enormous ice closing the transit toward Atlantic. Leisure anchorage place at 7 mtr. near unknown name river mouth with shelter from all but South winds. (W.J.)

Wilkins Point, off route – Rasmussen Basin. Unsheltered with good holding for larger vessels 0.4 Nm off beach.

Gjoa Haven 68°38'N / 95°53'W King William Is. Good holding and shelter from all winds off landing beaches. Some Banking at the Northern Store. Fuel and water from town. Airport.

Gladman Point 68°38.634'N / 97°44'W – Simpson Str. Obtainable south of entrance to bay and off former landing beach. Abandoned DEW Line facility. Tide monitoring point.

Simpson Strait, crossing at slack water near Eta Island 68°32.22'N / 97°23.37'W which has many tidal breakers and eddies.

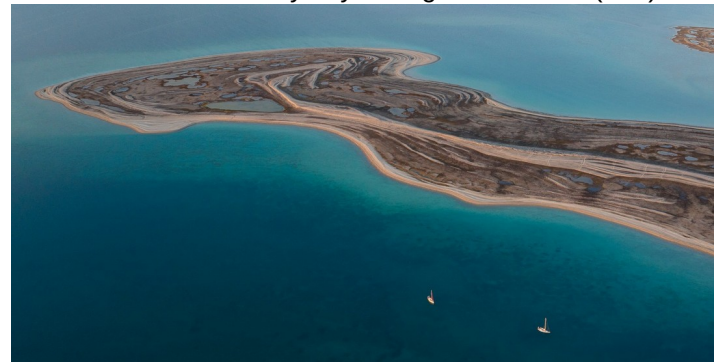
St. Magnus Island 68°36.2'N / 097°46.0' W, anchor depth 7.8m, 150m off the beach, good holding and protection from southerly winds to wait before making (the East bound passage) into Simpson Strait towards Gjoa Haven. (S.H.)

Queen Maud Gulf, 68°31.59'N / 099°53.19' W. WNW off Wilk Island. Soft mudbank at approx. 1.2 mtr. (H.H.)

Hat Island 68°19'N / 100°06'W - Queen Maud. No anchor near 68°18'N / 100°00'W small Islands. Good holding elsewhere. No settlement.

Hat Island 68°17.5'N / 100°07.4'W, at 5.30m, good holding. The big bay on the Southwest side of the Island, off a rocky and sandy beach. Sheltered from N - NE – E winds. If there are strong head winds from the NE Hat Island is the only anchorage in the area. Its a good place to wait (on a East bound passage) for entering Requisite Channel towards King William Island. Charts error: Hat Island and also Requisite Channel are charted 0.35 miles too far to the East. (S.H.)

Admiralty Island 69° 33.877N / 101°9.992W. A lot of shallow shoals. The shallowest encountered 4 meters, be careful to avoid the shoals. The bay is about 5-6 meters deep and has a good holding bottom. Good access to the beach with dinghy! Use for shelter from extensive ice in Larsen. Never used by any sailing boat before. (J.K.)



Ellice River 68°01.30' N / 104° W, in the Campbell Bay south of Spalding Islets offers outstanding Arctic Char fishing. Contact Bill Lyall in Cambridge Bay or at: manager.ikaluktutiak@arcticco-op.com Approach to Ellice River requires very intricate navigation skills due to many shoals and rocks along the way.

Jenny Lind Bay 68°38'N / 101°45'W - Queen Maud Anchorage with good shelter except from SE winds. No settlement.

Jenny Lind Island, 068°36.64'N / 102°09.14'W, good shelter from strong Easterlies on the eastern side of unnamed island in 4-5 m. (H.H.)

Parker Bay 68°49' N / 103°12'W. Officially uncharted. Possibility of hiding from incoming ice from SE-SSE behind small unnamed islet at 68°50.21' N / 103°10.18' W in 5 m. as per Vagabond'eux information dated 20 Aug. 1986. The middle of bay has shoal with many places at 1.2 m. muddy bottom. (W.J.)

Cambridge Bay 69°06'N / 105°04'W Victoria Is. Good holding in central part of arm and off landing beach on N side of entrance. Refueling can be done either by tank truck at dock or at gas station located near airport at Tank Farm. At dock there are 2 options: 2 inch-camlock or with jerrycans.

a) 2 inch-cam lock = the truck comes with fuel for \$500, and connects to the boat.

b) The company comes to the dock, takes the boat's jerrycans, drives to the tank farm and brings it back. The fee is \$150 for one trip. The boat has to provide the jerrycans. All prices just for services, price for the ultra low sulfur diesel was \$1.8265/liter in 2024. An alternative option is to sail west 1.5 Nm to the regular Qillaq gas station located at the Tank Farm, about 200m from the coast. You pay just for fuel, no service charges. Qillaq company, (phone number + 1-867-983-2818 or email Sandi Gillis: Sgillis@qillaq.ca). If you choose to rent a car for fuel and food provisioning for example, you can contact Bruce Perterson Contact: (780)913-3348 bruce@inukshukent.ca Price:\$250/day.

Qillaq is open from Monday to Friday from 7am to 6pm and weekends but it needs to be organized earlier as it is more difficult to reach the office on weekends. Qillaq Innovations is a Inuit-owned company based in the heart of Cambridge Bay, Nunavut. They offer a diverse range of services tailored to meet the unique needs to northern communities and supply high-quality petroleum products and services. Water delivery is \$100,- + cost of water. Propane available with North American style 20 lb. cylinder exchanged for \$80,- at Kitimuth Supplies. WiFi available at hotel restaurant. Some repairs can be done and capable machine shop present. For boats to winter no crane available to lift on shore. Only makeshift slide on shore. Major airport.

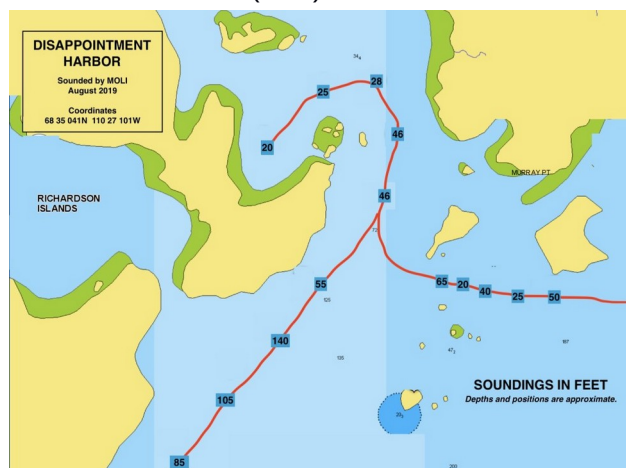
Cape Alexander 068°55.180'N / 106°13.896'W. Little bay 1.5 Nm SSW off Cape Alexander. Can be very vital as a shelter from just about all winds and ingress of ice. Depth 5-6 m. (H.H.)

Dease Str. & Coronation Gulf from Finlanson Islands to Lady Franklin Point. Generally south of 60°20'N. Includes Kent Peninsula, Duke of York Archipelago, Home Islands, Lawford Islands, Barens Islands, Coupler Islands and Black Berry Is. positioned as much as 2 Nm off WGS84. Be aware.

Byron Bay 68°55'N / 108°30'W. Good holding in 25 ft. black & red mud. Protection from N-SW winds. Open to S-E winds. Gradual slope of bottom from beach to anchor 1/4 mile off head. *Arctic Tern* anchored there in 2014 to escape W40kt winds. (R.R.)

Sinclair Creek 68°44'N / 108°57.6'W. Unsheltered anchorage is available over rock and shingle bottom.

Disappointment Harbour - own name. 68°35'N / 110°27.10'W. "disappointment" because it's a little too big and a little too shallow. I can't quite tuck in far enough. But a nice spot for anything less than a hurricane. Two approaches lead. South, below Murray Point and SW entering between rocks & isles in deep water. Entering harbour make wide berth to avoid rocks in SE corner. This place offers complete protection from Coronation Gulf with 20 ft. mid bay where anchorage can be taken in mud with excellent holding. It favors windward headland in strong winds to avoid fetch. (R.R.)



Edinburgh Is. 68°31'N / 110°41' W.

Fair anchorage in one of the bights in about 10 mtr. on East side of island. Will shelter against NW & W winds. (W.S.)

Johansen Bay: 68°36.1'N / 111°01.2'W. 200 meters from shore is 10 meters depth and the rest of the bay is fairly flat bottom at about 17 meters. The sounding corridor appears accurate. Anchorage can be found 5 meters depth at 100 meters from shore from old cabins with oil drums. Good holding, clay mud. Good protection from west and north winds. Holding well in NW45 kt. (M.D.)

Baychim Harbour – off main cruise
Anchorage obtainable in NW part of the harbour.

Port Epworth 67°43'N / 111°54'W.
Available in the west and east arms. Excellent anchorage. Shallow draught vessels only.

Kugluktuk 67°49.7'N / 115°05.6'W. Should be approached with caution. Good holding 0.8 Nm NW of hamlet. Some time fuel available from village. Airport.

Lady Franklin Point 68°29.1'N / 113°14.5'W.
0.4 Nm off landing beach. Barges if any, anchor with stern lines to shore. A small hut offers shelter for stranded.

Chart 7776 & CA373343 69°08'39"N / 113°47'52"W.
The shoal with known depth of 3 meters Rep (2019) as per Notice to Mariners dated 25 Oct. 2019 (Department of Fisheries and Oceans Canada 6604572-01) (E.M.)

Muskox Bay 69°13'N / 113°40'W

(Vagabond'eux own name).

Excellent anchor holding bottom with mud while rather shallow. Good shelter from all but southerly winds and ice. Small unoccupied Inuit cabin. Fog frequents the area (1986 W.J.) Visited extensively in 2015 by s/v Selma (P.K.) In 2019 s/v Breskell visited finding extensive shoaling in front of the bay with some 1.2 mtr. depth half cable away from entry to the bay. (E.M.)



Read Is. 69°13'N / 113°53'W.

Abandoned Hudson's Bay outpost. Long narrow bay offers 2.7 m. depth for small craft. 0.2 Nm North of island in 9 m. water has sand and mud with good holding. (W.J.) SE of island offers solid holding in sand in 15 ft. at small bay 69°12.133'N / 113°49.93'W. South part of this bay has a shoal and another between Read Is. & Igloodik Is. breaking swell from west. Good rest place with worry free of anchor watch. (E.M.)



Sutton Is. 68°54.323'N / 114°17.681'W anchorage. The unnamed bay on the east shore offers shelter from gale winds from South, North and a little less from the West winds. Soundings inside the bay not available but good for mid size icebreaker. Bottom comes gradually to the beach and makes easy landing. Anchor holding not the best due to rocky bottom. Ice accumulation may not be as prominent after prolonged westerly winds. (A.B.)



Bernard Harbour 68°46.8'N / 114°46'W.

Large vessels at 1 Nm north of Chipman Point. Can be difficult w/NW gales at some badly selected hiding places. No settlement.

Cape Young 68°56'N / 116°54'W. Unprotected obtained at 0.5 Nm off former beach landing. No settlement.

Ulukhaktok (Holman) 70°44'N / 117°46'W.

Poor holding and exposed to south winds. Easier anchorage at Queens Bay for sail boats in 6 m. Fuel and water sometime available from village. Internet access at library next to school. Health Center, Airport. (R.H.)

Fresh Water Bay on Diamond Jenness Peninsula

70°36'N / 117°28'W fresh water available at the far end west arm of bay from the stream 70°38.1N / 117°29.6'W. Proceed in the middle with no less than 13 m. water until close to creek. Anchor in 5 m. loose gravel/poor holding. (R.H.)

Tysoe Point 69°35.5'N / 120°43.2'W. 0.4 Nm offshore anchorage but exposed to wind and ice.

Pearce Point Harbour 69°49.4'N / 122°41.4'W.

Its charts follow GPS position with no offsets. Fair holding and protected from all but north winds. Difficult holding during gale winds. Careful selection of anchoring should be made according to Sailing Directions ARC 403. In less than gale winds good ground tackle should hold. Only sheltered anchorage for next 200 Nm. No settlement.



Darnley Bay 69°45'N / 123°40'W at many places gets foggy for some 20 days a month. There is a constant set of currents in the bay.

Letty Harbour 3 Nm South of Racing Is. at 69°51'N / 124°26'W offers full shelter off abandoned trading post in 3.7 m. depth.

Letty Harbour 69° 51'N / 124°25.48'W.

Arrival at Letty without problems. Never less than 15m once entering between the islands. Anchored in 6m outside old abandoned huts. Appears to be good holding. The tidal range in Letty is low at about 0.6 mtr. Good shelter against west/east/south winds. Really lovely place. (T.R.)



Cape Parry 70°11'N / 124°32'W.

Available in Cow Cove with poor holding but fair shelter from E winds. Warning: Chart 7686 for Police Point georef accuracy is poor. Not much recommended.

Wise Bay 70°06'N / 124°43'W.

See chart 7686 appearing accurate with no noticeable offsets for the detail of Wise Bay inset. The mooring buoy is still there to use and place offers very good rest. For bigger sail boats choose middle of the bay. (CL.S.)

Summers Harbour 70°07.7'N / 125°04.6'W.

Excellent protection from sea and ice with good holding. See chart 7686 appearing accurate with no noticeable offsets for the detail of Summers Harbour inset.

Franklin Bay 69°50'N / 126°00'W known for its Smoking Hills. It gets similar dose of fog as Darnley Bay.

Baillie Is. Snowgoose Pass, 70°34'N / 128°06'W.

Shoaling and silting due to strong tidal currents, not recommended for deep draughted yachts! Smaller boats with less than 1.8 m. draught may pass by keeping to the middle of the channel but only with good visibility and during fair weather. Islands wrongly located according to radar observations. (J.C.)

Nicholson Island, Liverpool Bay 69°56.1'N / 128°52.7'W. Close off outer side of Hepburn Spit. Not recommended to sail due to erratic tidal currents.

Sachs Harbour, Banks Is. 71°58.4'N / 125°17'W.

Very clear water. Ice threat with NW winds. Better anchorage 6 Nm W. Not used much by sailors as is off the beaten track. Fuel and water if available from village. Airport.

De Salis Bay, Banks Is. 71°26.9'N / 121°37.2'W.

Sheltered from all but north to west winds on East side of the bay. Alternate in NW part of the bay. No settlement.

Russell Inlet on Tutoyaktuk Peninsula 70°08'N /

130°03'W Is too exposed to any element. No hiding place.

Mackinley Bay 69°56'N / 131°09'W.

This is the great anchorage as it used to be the old oil field turning basin for anchorage and dredged channel was no less than 7.6 meter all the way in. Electronic charting was dead on. There is even break water man made stopping swells entering anchorage. Possible mooring at concrete wharf. This is not on charts. (C.Z.)

Hutchison Bay 69°44'N / 132°10'W.

Abandoned oil rig. Unknown depth appearing shallow for bigger boats.

Tuktoyaktuk 69°27'N / 133°02'W.

The harbour is relatively deep and sheltered. Fuel, water and repairs available. Airport and full Banking Services. Watch for possible over charges for fresh water supplies. Fuel can no longer be taken from the pumps adjacent the Northern Store on the W side of the bay. The pumps have been shut down. Also, the pier adjacent the Northern Store used in the past has been torn down and replaced

with a kayak-style floating dock suitable only for very small craft. It turns out that E. Gruben Transport who operates fuel supplies decided to terminate fuel station by Northern Store. Instead fuel can be get at their main place of business at fuel dock located at Cache Point 69°26.15'N / 132°59'W inside Tuk Bay. Contact Ricky the Fuel Man 867-678-0034. Tuk Taxi, operated by Ilene. \$7 one way 867-340-0103. (R.R.)

Inuvik 68°21'N / 133°44'W. Located some 100 km inland on MacKenzie River. The only NWP presently available wintering place for boat with lifting keel to clear river very shallow bed of 1.2 mtr. Storage on dry with Northwind Marine Yard. (W.S.)

Shingle Point 68°58.8'N / 137°16'W.

Good anchorage on south side of Escape Reef. Shallow !

Herschel Is. Pauline Cove 69°34'N / 138°55'W.

Good anchorage in 6 m. Historical and very quaint place. Herschel Island Territorial Park is just about the only place you'll be able to spot a Polar Bear in Yukon, though they can be found on the North Slope as well. Never stray too far from camp without a firearm for protection. Workboat Passage; the depths are much greater than the charts show. Use tender first to check the depths to be able to seek shelter from a lee shore and looming ice. Infinity (2018) never had less than a meter of water beneath 3 mtr. keel. Anchored just to the East of the sand spit. A vigilant anchor watch is required as there are currents which push a lot of ice through the channel. It gets often foggy. (A.J.)

Original wood burning sauna available upon request.



Komakuk Beach 69°36'N / 140°11'W. In open roadstead with good holding, alternative in Thetis Bay.

Demarcation Bay 69°41'N / 141°19'W shallow water to get in, use the north entrance, Inuit fishing summer camp. (E.B.) Demarcation Bay is not how it looks on the chart, the sandbar and little islands are all joined and there is only one gap now. Again, we did a tender trip first to confirm the depths and found nothing less than 4 mtr. in the middle of the channel. The locals, who were staying in a hunting camp, confirmed that the sand spit moves a lot and so do the depths so anyone venturing in would be well advised to check the depths first. We found Demarcation Bay to have perfect 360 degree protection, good holding and has a very uniform angled bottom. We could have anchored almost anywhere in the lagoon. Furthermore, not only is there good fishing to be had but a large river/stream which provides good drinking water. (A.J.)



Barter Is. (AK) 70°09'N / 143°37'W.

Extensive shoaling to 1.0 m.

At Kuvritovik Entrance 70°07'N / 143°47'W shelter can be found with 2.2 mtr. under keel (R.S.)

The entrance to lagoon of Simpson Cove can be messy ! and scary ! But offers a very good hold and shelter in strong easterlies !! Anchor in mud in 2 mtrs. at 69°58.718'N / 144°50.932'W (R.K.)

Flaxman Island, 70°12'N / 146°13'W.

I am pleased to tell you that this morning 25 July 2015 we managed to get through that ice choke point off Flaxman Island. We stayed in shallow water 5 to 6 meters depth, encountered maximum 5/10 ice but managed to find our way around. Yesterday we were in areas 6 to 8/10 east of Prudhoe Bay, got into some dead ends but found ways around. Last night we diverted south of Duchess Island (Maguire islands) - the latest Canadian chart was wrong, location of the sand banks was wrong, depths all wrong... we had to lift centerboard up so as only draw 1.2 m. to avoid going aground, and also when leaving via Mary Sachs entrance early this morning. Sand banks have shifted also west of Flaxman...So far, so good, and it may sound easy but you do have to have a boat like Aventura (aluminum, centerboard that reduces draft from 9 feet to 4 feet in an instant), and good crew. (J.C.)

Pole Island 70°18.10'N / 147°05.14'W, in the Stockton Island group anchored in just under 4 mtr. with a crescent shaped island that offered protection from the N through ESE. The island is further E than charted, and larger than it shows on the chart as well. (G.E.)

Tigvariak Island, Mikkelsen Bay, Reliance Pt. 70°12.41'N / 147°10.54'W. About a mile long spit. East side at 70°13.140'N / 147°09.790'W enough depth for Open 60 sail boat with 3 mtr. draft so further North and South. Good shelter against SW gales. Surprise! The island was not where charts said it would be and chart shows less water. (G.E.)

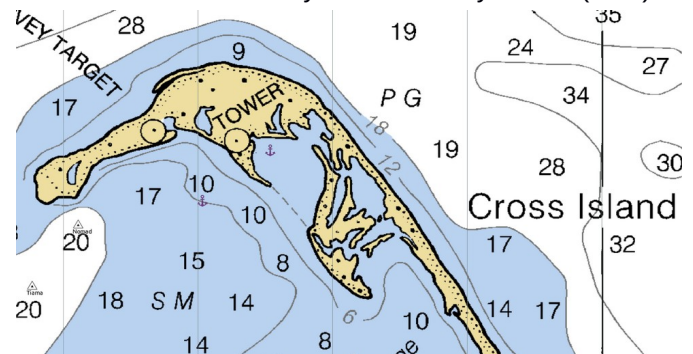
Narwhal Is. (AK) 70°24'N / 147°30'W.

1955 this barrier island was 2.17 Nm long. By 1979 breached in 4 locations creating five island chain. By 1984 consisted 3 pieces reformation. In 2022 it was found off 1.1Nm NNE compared to NOAA charts.

Cross Is. (AK) 70°29'N / 147°57'W.

Good anchorage, watch for shoaling. Ex. whaling station.

Island is actually located about 0.51 Nm SW. Excellent place against E & W winds. Two places to choose: 70°29.303'N / 147°59.423'W and inside lagoon after giving a wide berth to sand spit in front of rusty barge in 5 m. depth at 70°29.400'N / 147°58.94'W (W.S.) At 70°28.4590'N / 147°58.2425'W, 70°28.521'N / 147°59.418'W and 70°28.459'N / 148°00.280'W safe depth for larger boat with 3 mtr. draft and stormy NE & Easterly winds. (G.E.)



Cape Halkett (AK) at Harrison Bay. Anchor at 70°46.12'N / 152°15.2'W in 2.7 m. was not found in 2014 mainly due to extensive shoaling. Unknown quality of bottom.

Elson Lagoon 71°21'N / 156°21'W.

Shelter and rest can be found in the lagoon to the north east of Point Barrow. Enter through Eluitkak Pass. It offers shifting sand bottom with approx. 3 m. depth and some shelter from west winds. Walking distance to Pt. Barrow (R.S.), (M.J.)

Next is **Point Barrow** (AK).

Gravel beach landing only. Airport, Hospital. The hospital is a qualified Acute Care facility and State certified Medevac Service.

NSB Search & Rescue provides Critical Care Air Ambulance Service.

Emergency Services have coastal helicopter and floatplane access.

Emergency service is provided by 911 Telephone Service volunteers and health aide.

Borough Volunteer Fire Dept/EMS/Search & Rescue/Medevac (907) 852-0234 or (907) 852-6111

Peard Bay 70°50'N / 158°35'W.

Have seen its casualties. Its not the place to visit or storm. Shifting sand banks and mainly very shallow. Sail boat with lifting keel and min. draft of 1.10 mtr. may cautiously enter unless absolutely needed.

Wainwright 70°36'N / 160°07'W.

Is subject to shifting sand banks and information should be sought by radio before any attempt to enter. (R.S.)

Cape Lisburne 68° 52.9235'N / 166° 12.2443'W

We tried to find holding NE of Cape Lisburne in front and next to several streams and in front of several mines but only found rock with absolutely no holding. At the time we had a solid 25+ southerly.

We worked our way south to peninsula adjacent to Point Hope. We found excellent holding in sand. By the time we arrived, it was blowing solid 35 from the south. While peninsula is a low sandy spit, not offering much protection

from the wind, we had surprisingly calm waters. Some swell made it around the point, but as a stopover in adverse wind conditions, we can highly recommend it. (G.M.)

Point Hope

Good place to refuel diesel before attempt or at last miles before Nome. As its name indicates the shelter can be found to the north or south of Point Hope.

To the north:

Karen's Cove 68°27'N / 166°19'W (assumed name). It is south of Kowtuk Pt. Anchor in 7 m. off beach by curve of the shoreline. NOAA charts there are off by 0.23 Nm West. It may be possible to enter beginning of the lagoon, well hidden a little to the west, but it is still ten miles from the settlement.

To the south:

The shore is very steep-to in the vicinity of the settlement. The best anchorage is approximately 3 miles to the east. In the event of southerly storms good place to visit is around Sarichef Island SW to Shishmaref Inlet. Tidal range is about 0.3 mtr.

Once through Bering Str. **Port Clarence** offers good shelter with its Teller place/Grantley Harbour and airstrip while most will be proceeding as fast as possible for **Nome** (Alaska) where USA border crossing clearance can be get. (R.S.) (E.B.)

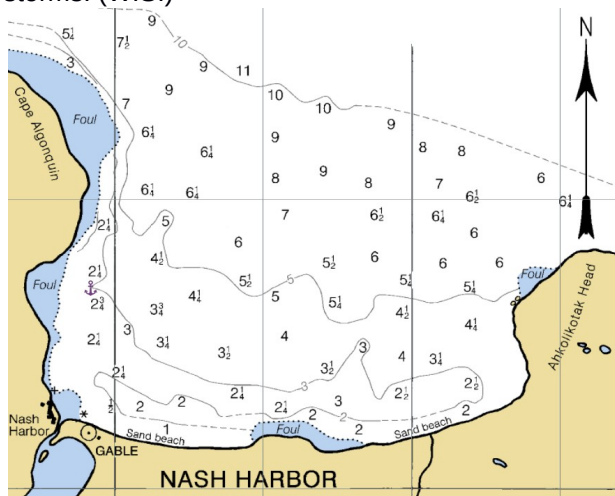
For those arriving to seek winter shelter in Alaska can be intimidating and difficult. Anchoring in kelp should be discouraged. The following places are recommended:

Nome, 64°30'N / 165°25'W. US Customs Port of Entry. Proper port with nearly all facility. Limited wintering, only for smaller boats on dry, contact Rolland Trowbridge for help at (907) 434-1516.

Nunivak Is. 60°20'N / 166°37'W. This Island offers some landing. Watch for plenty of kelp primarily on the south shores and dangerous shoaling in Etolin Str. Preferable cruising on the west site of island.

Nash Harbor 60°12.69'N / 166° 56.16'W.

Quaint place from all but Northerly winds, some kelp evident. Used for shelter by many during Bering Sea storms. (W.S.)



Hagemeister Str. In Bristol Bay 58°46'N / 161°08'W.

Good shelter from prolonged Westerly & Northerly storms.

Security Cove in Kuskokwim Bay 58°41'N / 161°54'W, offers good place for anything but Northerly winds.

St Paul, Pribilof Islands, has sheltered harbor (Port of Refuge). Docking is \$2/ft. for each 12 hours (so \$4 ft/day). Groceries available. Anchoring on the lee of the island is also possible. Not recommended for wintering.

Urilia Bay 54°54.364'N / 164°20.573'W.

This anchorage has excellent protection from southerly gales and good holding while waiting for better conditions/currents in Unimak Pass. (C.S.)

Hopper Bay 61°30.3740' N/166°01.1520' W. We found deep water (up to 70 ft). The push boat is now anchored on 30ft and we have 25ft. The secret is that the shallows shown well into the entrance is the absolute edge of a deep water channel that arch's up toward the town of Hooper. Proceeding north from our position the water shallows dramatically. There is a larger extent to the deep water channel but it was blowing hard and we did not feel like adventuring further. There are significant surface currents so even in a gale, you are not hanging clear on the anchor. Holding is excellent. (G.M.)

FALSE PASS..."After we took UNIMAK PASS we spoke with fishermen at King Cove and a tug with barges who told us that they all use FALSE PASS rather than UNIMAK PASS because it saves about 150 miles off the passage if a stop at Dutch Harbor is not needed. The tugman said he goes through with anything with a draft less than 12ft. Hopefully, some future voyager can add a few waypoints to make False Pass a viable route." (C.S.)

During windy approaches to False Pass from Bering Sea the crossing can be difficult. North swell and shore break conditions in the entrance add difficulties. Follow very well marked channel and with deep draft may touch the bottom. Local knowledge is essential. Crab pots are everywhere with floating ropes in between. Water & electricity available at pontoon. Small grocery store and propane when operator is there. Fuel at the dock. No Wi-Fi. (R.K.)

Note you want to enter southbound False Pass with southbound current. The switch of current direction there happens about 2-3 hours before LOW WATER at Bechevin Bay and Isanotski Strait heading south. You rather read Current Table instead Tidal Table which is done for all Alaska. Start at Bechevin Bay Entrance Buoy BB 55° 06.1454'N/ 163° 30.1262'W if heading south follow all 30 buoys to inside of Pass. Select entry timing for current direction SSE 139° from Wxtide32 table used with OpenCPN. For heading North select current direction NNW 339°

Dutch Harbor, 53°54'N / 166°31'W.

Is a major fishing port with all services available. US Customs Port of Entry. Potential place to winter in-water.

Sand Point (Humbolt Harbor) 55°20'N / 160°30'W, major fishing port with 150 ton travel lift. All services available including repairs. Good wintering on dry. (R.K.), (V.M.) In 2023 locals refused for transient to lift out of the water.

King Cove 55°02'N / 162°19'W

Gives good shelter and facilities providing there are no violent williwaws are present. Propane refill by Harbormaster. Shower, Wi-Fi at Harbor office. Grocery store and chandlery in front of Harbor. Fuel and laundry at Peter Pan office. Travel lift for haul out. Check for wintering availability. (R.K.)

Chignik, 56°18'N / 158°24'W.

is a fishing harbor. Travel lift. Fuel at Fishing Dock and propane likely available. (R.H.) Access to Internet and grocer store open from June to end of August only. A lot of bears wondering around and good place for fishing. (R.K.)

Herring Lagoon 55°58'N / 158°41'W, Anchor in 4 mtr. Nice bay with a bit rolling swell from south. (R.K.)

Kodiak, 57°47'N / 152°26'W.

Is a major fishing port with all services available. US Customs Port of Entry. Contact for potential place to winter in-water with Robert Chichenoff (907) 942-5333 who acts as assistant Harbor Master and knows everything. (D.K.)

Homer 59°36'N / 151°25'W. Crowded wintering either in water or on dry. Many services. Used well by many in 2023/2024.

Halibut Cove 59°35'N / 151°14'W. Pristine Alaska place. Reachable by boat or sea plane only. Former fishing place now resided by artists and business people. Electricity on shore. Possible wintering for sail boats in water, no services.

Seward 60°07'N / 149°26'W. Some yachts wintered in water, available on dry as well. Many services. Road to Fairbanks.

Yakutat, 59°33'N / 139°44'W.

is a small fishing town of about 500 people. Airport. Small boat harbor has good protection, inexpensive docking (no electricity for transients). Many boats run aground on rock outside harbor. Follow both daymarks to avoid the rocks. (R.H.)

Hoonah (Inside Passage, near Juno)

58°06.5'N / 135°26'W has a 250 ton Travelift and a large gravel pad to store boats ashore. Potential place to winter boat ashore (or in water, but harbor is small). (R.H.)

Sitka, 57°03'N / 135°21'W, is a fishing port of about 8000 population. All services available, and a potential place to winter in-water. (R.H.)
All Alaska ports and harbors have access to the airports.

For contact with Alaska Harbor Masters check most recent updated entries on Internet in advance. Most updated contact for Nome Harbor Master is: Lucas Stotts : lstotts@nomealaska.org

US Customs and Border Protection issued New Procedures for Small Boat Reporting Beginning 2016
Release Date: December 22, 2015.

The Polar Bears protection issue was published in 2016 by US at: <https://maritime-executive.com/article/polar-bears-win-120-million-acres-of-alaska> so be aware.

Canada Search and Rescue

The Canadian Armed Forces (DND) are responsible for coordinating all Search and Rescue (SAR) activities in Canada, including Canadian waters and at the high seas off the coasts of Canada. A Joint Rescue Coordination Centers (JRCC) are situated in the Canadian Forces base at Halifax, Victoria & Trenton to coordinate activities in the regions. The JRCC is the headquarters of a coordinated network of agencies trained and responsible to search for and aid vessels in distress. There are Canadian Coast Guard officers at the JRCC who are on continuous watch to arrange the response to marine SAR incidents. Maritime Rescue Coordination Subcenters (MRSC) are maintained at St. John's, Newfoundland and Quebec City. These centers function as subcenters of the above-mentioned JRCC. MRSC St. John's will coordinate the necessary response measures during marine SAR incidents in the waters off the coasts of Newfoundland and Labrador. MRSC Quebec will similarly respond to SAR incidents in the waters off the province of Quebec. **All distress situations and requests for assistance should be directed to the appropriate JRCC or MRSC via the nearest Canadian Coast Guard Radio Station, Vessel Traffic System Center, or by any other available means. The JRCC and the MRSCs can be contacted, as follows:**

The most important place to contact in distress in Arctic is:

Central & Arctic Region, JRCC Trenton

Tel: 1-800-267-7270 or 613-965-3870

Fax: 613-965-7190

Email: jrcctrenton@sarnet.dnd.ca

Others are as follows:

Pacific Region, JRCC Victoria

Tel: 1-800-567-5111 or 250-413-8934

Fax: 250-413-8932

Email: jrcvictoria@sarnet.dnd.ca

Atlantic Region, JRCC Halifax

Tel: 1-800-565-1582 or 902-427-8200

Fax: 902-427-2114

Email: jrcchalifax@sarnet.dnd.ca

MRSC Quebec

Tel: 1-800-463-4393 or 418-648-4325

Fax: 418-648-3614

Email: mrscq@sarnet.dnd.ca

MRSC St. John's

Tel: 1-800-563-2444 or 709-772-5151

Fax: 709-772-2224

Email: mrscsj@sarnet.dnd.ca

All Canadian government ships and aircraft are available for search and rescue duties when required, as are all Canadian registered ships in accordance with the Canada Shipping Act.

In addition, the Canadian Coast Guard operates a number of specialized vessels whose prime mission is search and rescue under the guidance of SAR Trenton.

Medical assistance in Canadian part of NWP is provided at most places with qualified nurses, for more severe cases the lift by aircraft to Yellowknife Hospital or University Hospital in Edmonton is available. The return flight from Cambridge Bay to Yellowknife may cost approx. \$3500,- per person.

Canadian gun permit fee in 2014 was \$50,- and is usually good for 2 months unless requested otherwise (for boats wintering). Inquire at local RCMP detachment.

**Alaskan maritime region. If you are in need of immediate assistance contact the US Coast Guard at: 17th District command center: 907-463-2000 Local 911 Coast Guard on VHF-FM channel 16 (marine-band radio)
Email: jrccjuneau@uscg.mil
<https://www.uscg.mil/d17>**

The note about **Canadian Coast Guard (CCG)**

The Canadian Coast Guard is the civilian unit. Formed in 1962, the coast guard is tasked with marine communication, navigation and transportation issues in Canadian waters, navigation aids, ice breaking, marine pollution response, fishing protection and providing support for Arctic vessels and other Canadian government initiatives. The Canadian Ice Service assigns Ice Services Specialists (ISS) on the larger Canadian Coast Guard icebreakers. Telephone: 1-877-789-7733

The agency existed for nearly a century before that, under different names and under a variety of Ministries (at times split between the Fisheries Patrol and Hydrographic Survey missions in one department, and the Lighthouse Supply and Ice breaking missions in another. At no time has the CCG been part of Canada's military as USCG who can board any vessel at sea at any time. Now it is under the governing of Department of Fisheries and Oceans.

Entry to Canadian Arctic settlements.

Pond Inlet and Cambridge Bay, Nunavut has now official immigration officer of *Canada Border Services Agency* (CBSA) during summer time while the rest of Canadian Arctic uses its local Royal Canadian Mounted Police (RCMP) to do the clearance. **For all aliens leaving Canada it is not required to report to authorities.**

From practical point of view any vessel transiting Canadian Arctic or Labrador Coast upon arrival at any settlement shall report to local RCMP detachment and show the crew's valid passports for entry. Failure to do that may lead to substantial monetary penalty as it happened to one sail boat crew in 2016. They had to pay \$1000,- fine in Resolute, cause they went for a shower before checking in. In many cases it is done at the very relaxed mode as officers are getting a break from their monotonous duty and gladly invite sailors for the tea after it.

Also please note, any Harbour in Canadian Arctic does not have so familiar Harbour Master. Using VHF Radio at all of places is not answered.

NORDREG Canada vessel registration.

The Northern Canada Vessel Traffic Services Zone North of 60 Parallel.

Regulations apply to every ship of 300 tonnes gross tonnage or more.

For smaller vessels it is advised to do registration as well due to safety concerns.

Contact: iganordreg@innav.gc.ca or phone: (867) 979-5724

Expected should be surveillance of all traffic with low flying aircraft's until proper Drone will be used from 2024 by Transport Canada.



Canada's skies are opening to new drone rules in 2025
The changes build on the country's first rules, which came out in 2019 <https://www.cbc.ca/news/canada/canada-drone-rules-1.7418332>

Transport Canada's updated rules, to be unveiled early this year, will lift restrictions on longer-distance flights for the remotely piloted aircraft (RPA) or drone industry, making it simpler for pilots to take to the skies. It'll open up much of the country's skies to missions that fall under low-risk [beyond visual line of sight \(BVLOS\)](#), where a drone flies out of the pilot's field of view.

GREENPOS and KYSTKONTROL, Greenland, See full text at:

[https://wwwcdn.imo.org/localresources/en/KnowledgeCentre/IndexofIMOResolutions/MSResolutions/MSC.126\(75\).pdf](https://wwwcdn.imo.org/localresources/en/KnowledgeCentre/IndexofIMOResolutions/MSResolutions/MSC.126(75).pdf)

Contact information:

Aasiaat Radio can be contacted on VHF, MF (see <https://www.tusass.gl/en/coastal-radio/mf/>).

Furthermore, on telephone +299 389 454 or via mail oyr@tusass.gl.

Arctic Command, JRCC Greenland telephone: +299 364 000, Email oyr@telepost.gl

For the safety of navigation in the waters off Greenland, ships reporting systems have been established with the purpose of monitoring ships' navigation in these waters and, if necessary, to cause search and rescue operations to be launched.

Two systems have been established: One – called GREENPOS – is mandatory for ships engaged on voyages to and from Greenland waters, and in transit. The other one – called COASTAL CONTROL

(KYSTKONTROL) – for ships larger than 20 GT travelling between Greenland ports and places of call. Other ships may use COASTAL CONTROL (KYSTKONTROL) as well
The first is mandatory for ships passing to and from Greenland.

The second is mandatory for ships (>20BT), sailing in Greenland waters.

INFORMATION ABOUT THE GREENPOS SYSTEM: As of December 1st 2002 THE GREENPOS system is mandatory for ships traveling to and from Greenland. The ships report their position, course, speed and actual weather information every 6th hour. GREENPOS self service on internet:

<https://greenpos.joint-arctic-command.org/>

INFORMATION ABOUT THE COASTAL CONTROL (KYSTKONTROL) SYSTEM: As of December 1st 2002, the COASTAL CONTROL system is mandatory for ships larger than 20 GT and passenger ships travelling between Greenland harbours and places of call. The ships report their departure, position report every 24 hours and then an arrival report.

GREENPOS and COASTAL CONTROL (KYSTKONTROL) reports are free of charge.

Greenland worked with DMA, to develop a program, that suits small sailors and boats with a small internet connection. This is a program that can be reached on <https://www.barentswatch.no/arcticinfo/>

The program delivers maritime safety information and other relevant information as well.

NOTMAR

Notmar.gc.ca email notification service provides with Section 2 - Chart Correction notices only.

Users wishing to receive the complete Monthly Notices to Mariners publications electronically can do so by subscribing on page at:

<https://www.notmar.gc.ca/subscribe>

Mariners are responsible to apply the complete Notices to Mariners publications (Section 1 -5) in accordance with the Canada Shipping Act.

To view all sections of the Notices to Mariners publication visit www.notmar.gc.ca and select the appropriate publications from the left side menu under "Notices to Mariners". For more information on marine safety or other Canadian Coast Guard programs and services please visit www.ccg-gcc.gc.ca.

Notice to Mariners – Feb. 2012.

Mariners are reminded that chart 7725 and 7731 are drawn on an unknown datum, positions plotted from the global navigation satellite system may be in error by 0,5 NM positioning methods such as range and bearing should be used.

Notice to Mariners – Nov. 2017.

Chart 7736 / CA473317 - Simpson Strait

Delete: green port hand spar buoy, marked 17 – 68°31'47.0"N / 097°22'46.7"W

Notice to Mariners issued on 1 April 2019 dated 15 March 2019. Eta Island in Simpson Str. where two Range Beacons were moved to new locations. The area where about are main tidal rips are present. The most southerly Beacon is a General Purpose Lattice

warning mark with Radar Reflector and doesn't serve as Range Beacon.

Reposition front leading beacon to 68°32'16.5"N / 097°23'45.1"W. Reposition rear trailing beacon to 68°32'13.7"N / 097°23'22.4"W. It all concerns Chart No. 7736 and ENC S-57: CA473317.

Notices to Mariners: 2019-09-25

Charts updated: [7082](#) [7779](#) [7782](#)

To be updated every year Canadian Annual Notice to Mariners 2022 can be downloaded from:

<https://www.notmar.gc.ca/annual-annuel-en.php>

There is a French version as well for this 20.1 Mb 331 page document.

Good US NOAA S57 Charts can be get from Internet: NOAA ENC Charts

<https://www.charts.noaa.gov/ENCs/ENCs.shtml>

NOAA RNC Charts

<https://www.charts.noaa.gov/RNCs/RNCs.shtml>

Weather and Ice Reporting via Internet:

For Alaska - weather:

<https://www.weather.gov/atg/marine>

For Canadian Arctic – weather see its GDPS site:

https://weather.gc.ca/marine/index_e.html

For Canadian Ice Service:

<https://www.canada.ca/en/environment-climate-change/services/ice-forecasts-observations/latest-conditions.html> (NEW since 2020).

"Manice" book (pdf format) Manual of Ice 265 pages, very essential to read ice visually and its codes at:

https://publications.gc.ca/collections/collection_2013/ec/En56-175-2005-eng.pdf

Be well aware, the CIS ice charts are available in three different types; image analysis charts, daily ice charts and regional ice charts. The reason for the timing is as follows:

1. Image analysis charts come from a single satellite image or pass, and they are posted as soon as the image is analyzed. Their area of coverage changes with the extent of the image so each one is slightly different in their extent.
2. The daily ice charts take information from a number of different data sources and they are technically a forecast (although I would call them a nowcast). They are produced once a day, valid at 18:00 Z and usually come out between 17:00 and 18:00 EDT. Their extents are fixed.
3. The weekly regional charts are produced once a week.

They incorporate ice information from the preceding Friday to Monday. They are meant to be a climate record. (T.Z.)

Canadian Arctic Nautical Charts and Charting Deficiencies

One of the principal problems with charts in the Arctic concerns the horizontal datum on which the actual chart is based. With more and more vessels using accurate positioning systems such as the Global Positioning System (GPS) or the Russian system (Global'naya Navigatsionnaya Sputnikovaya Sistem - GLONASS), the greater the problem will become. Regarding GPS, the positions are referenced to the World Geodetic System (WGS 84) which is virtually equivalent to the North American Datum 1983 (NAD83). If you are navigating on a NAD83 chart with GPS there would

be no corrections to apply. If you wanted to plot on a NAD 27 chart you must manually apply the appropriate corrections.

In 1997 there were 245 charts listed in the Arctic Chart Catalog. Only 55 charts (22%) have sufficient accuracy or detail to facilitate accurate plotting of positions obtained by GPS, which requires a chart base relative to the NAD83 horizontal datum. There are 49 charts that specify that positioning with GPS can lead to positioning errors up to some defined magnitude, which may be as much as 4 nautical miles. The remaining 141 charts did not have any information about the horizontal datum of the chart. For bathymetry (depth soundings, bottom composition, etc.) it is estimated by the Canadian Hydrographic Service that less than 25% of the Arctic waters are surveyed to acceptable, modern standards. Much of the data has been collected by random vessel's track soundings or over ice spot soundings.

Sailors should proceed with due caution and prudent seamanship when navigating in the Arctic especially in poorly charted areas or when planning voyages along new routes. Additional information may be found in the Annual Edition Notices To Mariners.

Effect of High Latitude on Compasses and Electronic Aids Compasses

The magnetic compass can be erratic in the Arctic and is frequently of little use for navigation:

The magnetic compass depends on its directive force upon the horizontal component of the magnetic field of the earth. As the north magnetic pole is approached in the Arctic, the horizontal component becomes progressively weaker until at some point the magnetic compass becomes **useless as a direction measuring device.** If the compass must be used the error should be checked frequently by celestial observation and, as the rate of change of variation increases as the pole is approached, reference must be made to the variation curve or rose on the chart. The best magnetic compass used in Arctic is **Sestrel Major** that still needs many adjustments.

The gyro compass is as reliable in the Arctic as it is in more southerly latitudes, to a latitude of about 70°N. North of 70°N special care must be taken in checking its accuracy. Even with the compensation given by the latitude corrector on certain makes of compass, the gyro continues to lose horizontal force until, north of about 85°N, it becomes unusable. The manual for the gyro compass should be consulted before entering higher latitudes. The numerous alterations in course and speed and collisions with ice can have an adverse effect on its accuracy.

GPS compass may be the best with wired interface for your plotter and computer.

Therefore, when navigating in the Arctic:

Principles of High Latitude Navigation:

Navigating in high latitudes requires great care in the procedures and in the use of information. The remoteness of the Arctic and the proximity to the North Magnetic Pole has an affect on the charts that are supplied and the navigation instruments that are used with them. This section discusses some of the effects and limitations on charts and instruments used in the Arctic.

At high latitudes, the meridians are not the familiar parallel lines of the Mercator chart but radial lines converging at the poles. Thus Ice Charts provided by Canadian Ice Service are plotted on Polar Stereographic projection to show real shape of ice occupied particular waterways. Mariners prefer using a Mercator chart, so to preserve the look of a Mercator chart a polar grid is used. A grid is printed parallel to a meridian, usually the Greenwich meridian. On a Transverse Mercator chart the fictitious meridians found on this type of chart would serve this purpose. Because the meridians cross all grid lines at the same angle they are fictitious rhumb lines. The direction that is chosen as the reference for the grid is north, so then all parallel grid lines can be taken to be extending in the same direction. The direction relative to the grid lines is then known as the grid direction. If a magnetic compass is used to follow the grid direction then the corrections of variation and convergency can be combined to a single correction called grid variation or gravitation.

Charts:

There are two areas of concern with the use of charts in the Arctic. These are consideration of the uncommon projections used and the accuracy of the surveys.

Charts Projections

To compensate for the fact that the meridians converge as they near the pole the scale of the parallels is gradually distorted. In the high Arctic, Mercator projections suffer too much distortion in the latitude direction to be used for anything but large-scale charts. As the latitude increases the use of rhumb lines for visual bearings becomes awkward, as it is necessary to add ever larger convergency corrections. As the Arctic becomes better surveyed there will be more Mercator charts, but other projections such as Lambert Conformal, Polyconic, and Polar Stereographic are used as well. Until about 1985 most of Arctic Charts were of Polyconic projection. Polar Stereographic is becoming the most popular as it provides minimum distortion over relatively large areas. The number of different projections makes it important, when changing charts, to check the type and any cautions concerning distances, bearings, etc. For example, the habit developed with Mercator charts is to use the latitude scale for distance, which is not possible on Polyconic charts. Particular care must also be taken when laying off bearings in high latitudes, as a convergency correction may be needed even for visual bearings.

Accuracy

The accuracy of charts in the Arctic can vary widely according to the date of survey. The more frequently travelled areas, such as Lancaster Sound, Barrow Strait, and the approaches to Polaris and Nanisivik mines, are well surveyed, but many charts are based on aerial photography (controlled by ground triangulation) combined with lines of reconnaissance soundings. Even new editions of charts may be misleading as some information on them may be dated. The appearance of depth contour lines on new charts does not indicate any new information. Production priorities may result in new information being added to large-scale charts only. Precautions to be taken when using charts for Arctic areas include:

- checking the projection and its limitations

- checking the date of survey and / or the Source Classification Diagram
- using range and bearing to transfer positions from chart to chart
- checking for evidence of reconnaissance soundings,
- using the larger scale map in preference to the smaller scale map; and
- checking for the method of measuring distances and taking bearings.

Radar

In general, Arctic or cold conditions do not affect the performance of radar systems. Occasionally weather conditions may cause ducting, which is the bending of the radar beam because of a decline in moisture content in the atmosphere. This effect may shorten or lengthen target detection ranges, depending on the severity and direction of the bending. A real problem with radar in the Arctic concerns interpretation of the screen for purposes of position fixing.

Position Fixing

Problems encountered with position fixing arise from either mistaken identification of shore features or inaccurate surveys. Low relief in some parts of the Arctic make it hard to identify landmarks or points of land. Additionally, ice piled up on the shore or fast ice may obscure the coastline. For this reason radar bearings or ranges should be treated with more caution than measurements in southern waters. Visual observations are always preferable. Sometimes it is possible to fix the position of grounded icebergs and then to use the iceberg for positioning further along the track, if performed with caution. Large areas of the Arctic have not yet been surveyed to the same standards as areas further south, and even some of the more recently produced charts are based on aerial photography. To decrease the possibility of errors, three lines (range, or less preferably bearings) should always be used for positions. Fixes using both sides of a channel or lines from two different survey areas should be avoided. Because of potential problems, fixes in the Arctic should always be compared with other information sources, such as electronic positioning systems.

Global Positioning System (GPS)

The Global Positioning System, or GPS, is a space-based radio-navigation system which permits users with suitable receivers, on land, sea or in the air, to establish their position, speed and time at any time of the day or night, in any weather conditions.

The navigational system consists nominally of well over 50 operational satellites in many orbital planes, and an orbital radius of 26,560 kilometres (about 14,350 nautical miles above the earth). Of the all satellites, are considered fully operable and some functioning, deemed 'spares'. The orbital planes are inclined at 55° to the plane of the equator and the orbital period is approximately 12 hours. This satellite constellation allows a receiver on earth to receive multiple signals from a number of satellites 24 hours a day. The satellites continuously transmit ranging signals, position and time data which is received and processed by GPS receivers to determine the user's

three-dimensional position (latitude, longitude, altitude), speed and time.

GPS was declared initially operational in December 1993 with full operational capability being declared in July 1995. GPS provides two levels of service - a Standard Positioning Service (SPS) for general public use, and a Precise Positioning Service (PPS) primarily intended for the use of the U.S. military. The SPS point accuracies within 100 meters in the horizontal plane and 156 meters in the vertical plane, 95% of the time. However, the US Department of Defence, deliberately introduced errors in the satellite's clock oscillator frequency in a seemingly random, though controlled manner, consequently degrading the accuracy to those given for SPS. This deliberate introduction of errors is known as Selective Availability. The US president has proclaimed that the level of SA will be reduced to zero within the next seven years and when this occurs the horizontal position accuracy for stand alone civilian GPS receivers will improve from the previously stated 100 meter level to the 30 meter level.

Although the satellites orbit the earth in a 55° plane, the positional accuracy all over the globe is generally considered consistent at the 100 meter level. For a ship at a position 55° North or South latitude or closer to the pole, the satellites would be in a constellation around the ship with the receiver actually calculating the ship's Horizontal Dilution of Precision (HDOP) with satellites possibly on the other side of the pole. With a ship at or near the north pole all the satellites would be to the south, but well distributed in azimuth creating a strong fix. The exception to this is the vertical component of a position which will grow weaker the further north a ships sails because above 55°N there will not be satellites orbiting directly overhead. Other than Selective Availability, there are a variety of sources of error which can introduce inaccuracies into GPS fixes especially in polar regions such as tropospheric delays and ionospheric refraction in the auroral zone. The troposphere varies in thickness from less than 9 kilometres over the poles to over 16 kilometres on the equator which can contribute to propagation delays due to the signals being refracted by electromagnetic signal propagation. This error is minimized by accurate models and calculations performed within the GPS receiver itself. The ionospheric refraction in the auroral zone (the same belt in which the aurora borealis / aurora australis phenomena occur) caused by solar and geomagnetic storms will cause some error. Sunspot activity is on an 11 year cycle and this activity is expected to peak at about the year 2022. If the datum used by the GPS receiver in calculating latitude and longitude is different from the datum of the chart in use, errors will occur when GPS derived positions are plotted on the chart. GPS receivers can be programmed or reset to output latitude and longitude based on a variety of stored datums. Information on the chart will describe the horizontal datum used for that chart and for those not referenced to NAD 83 which is WGS 84, corrections will be given to convert NAD 83 positions to the datum of the chart. The title block of the chart will describe the horizontal datum used for the chart and will give the corrections to convert from the datum of the chart to NAD 83 and vice versa.

Northwest Passage Weather ForecasNotes

This is about weather forecasts in Arctic North America and Western Greenland from the perspective of a small boat sailing in these areas. Details of the equipment used for receiving weather forecasts.

GRIB Forecasts:

GRIB forecasts are available everywhere if you have the ability to receive them.

In Arctic Canada the GRIB forecasts (using the GFS model) for quite a while were correct on the direction of wind, but unusually underestimated the speed. Normally with a GFS GRIB forecast, with wind speeds less than 30 knots, consider the forecast to be up to 50% higher (ie, if the forecast speed is 10 knots, expect 10-15 knots, if the forecast speed is 15 knots, expect 15-22 knots). What seen in Franklin Strait and Victoria Strait was often GRIB forecasts for 2-7 knots and actual wind speeds of 12-20 knots (the wind directions were correct, the speeds were just way low).

Weatherfaxes:

Weatherfaxes covering much of Greenland are broadcast by The UK Weather Office

National Weather Service (USA) weatherfaxes, which forecast conditions up to 96 hours away, go up to 60 degrees N in the Atlantic. Beyond that, to some extent, location and movement of lows and highs can be inferred from them.

Canada broadcasts weatherfaxes for Eastern Canada, but, as the National Weather Service faxes from Boston cover the same area, go out farther, and are much easier to read (thicker lines, less information).

Forecast Areas:

To use official forecasts or ice conditions via NAVTEX, you must know what the forecast areas are. For Greenland, see the [DMI](#) site

For Canada, you want the maps from the Canadian Coast Guard's Radio Aids to Marine Navigation, both the Atlantic and Pacific versions. Freely downloadable from [Canada Coast Guard Radio Aids to Marine Navigation](#)

For Alaska, you want the (outdated and no longer supported, but still useful to understand which forecast areas are where) [Marine Service Charts](#)

Latest News as of 2 March 2021.

NOAA Begins Four-Year Transition to Phase Out Paper Charts

Two years after announcing its intent to begin the phaseout of paper nautical charts, the U.S. National Oceanic and Atmospheric Administration (NOAA) has officially begun the effort to sunset one of the most basic of tools for all mariners ranging from captains of giant ocean-going vessels to the recreational boaters. NOAA is transitioning exclusively to electronic navigation charts. Dating back to the 13th century and the invention of the magnetic compass, chart making evolved into an art. The original maps were drawn on a flat plane not taking into account the curvature of the earth, but by the 17th century, the modern concept of Mercator projection charts was developed to adjust for the shape of the earth. The failure to keep charts updated and obstacles that led to

groundings or collisions, however, was frequently cited by mariners as the causes of accidents.

Citing the benefits of quicker and easier updates to increase marine safety, NOAA announced in late 2019 the start of a five-year process to end traditional paper nautical chart production. The process for selecting the individual charts to be phased out will initially be based on the volume of sales or downloads, and in regions with improved NOAA electronic navigational chart coverage. Notification will be included with each chart as the final version is released and the cancellation of all traditional paper and associated raster chart products is expected to be completed by January 2025. While NOAA is sunsetting its traditional nautical chart products, it is undertaking a major effort to improve the data consistency and provide larger scale coverage within its electronic navigational chart product suite. Over the next four years, NOAA will work to ease the transition to electronic products by providing access to paper chart products based on electronic data. The online NOAA Custom Chart tool also enables users to create their own paper and PDF charts from the latest NOAA ENC data.

Imray Charts

In a press release on Monday 18 November 2024, the centuries-old nautical publisher Imray has announced that it will stop production of its paper navigation chart products. The company intends to focus on its pilot book and cruising guide titles, along with its Explore with Imray digital product. Support and printing for paper charts will continue through Imray Notices to Mariners through the 2025 season, after which, no new editions will be published. The UKHO had previously announced that it was going to withdraw its paper chart products by 2026, but following user feedback announced that it would continue publication until at least 2030. It has, however, announced price increase for its paper products from January 2025. Imray is suggesting that the following 12 months represent the last opportunity to buy up to date charts in a cost effective manner. Imray has been published charts and pilotage information for merchant ships from the City of London since the mid-1700s.

Notice by U.S. Homeland Security National Cybersecurity and Communications Integration Center concerning Memorandum for U.S. owners and operators using GPS to obtain UTC time.

BACKGROUND: The GPS Internal Navigation Time Scale "GPS Time" is based on the weighted average of GPS satellites and ground station clocks. GPS Time is used for user navigation solutions. A nanosecond error in GPS Time can equate to one foot of position (ranging) error. The Week Number (WN) parameter is provided via a ten (10) bit parameter—or "counter". The valid range of values for the WN parameter is 0 to 1023 (or 1024 total values). The WN parameter is incremented by one each week. At the end of the 1024th week, the counter experiences a rollover (resets) to 0. Each WN rollover event defines a new GPS Time Epoch. The WN value is referenced to the start of the current GPS Time Epoch. The last WN rollover was August 21, 1999. GPS Time is currently in the second Epoch.

The WN rollover was on April 6, 2019.

GPS Time is adjusted by the U.S. Air Force GPS Directorate to maintain alignment with UTC as provided by the U.S. Naval Observatory. A GPS device that provides UTC time does so by converting GPS Time to UTC using multiple parameters – including WN – conveyed in GPS. GPS devices with a poorly implemented GPS Time-to-UTC conversion algorithm may provide incorrect UTC following a WN rollover. Additionally, some GPS devices that calculate the WN value from a device-specific date rather than the start of the current GPS Time Epoch may provide incorrect UTC at some other device-specific date.

Your precise navigation position depends on precise UTC time.

Radios

Radio communications in the Arctic, other than line of sight, are subject to interference from ionospheric disturbances.

Bad propagation is common. Whenever communications are established alternative frequencies should be agreed upon before the signal degrades. Use of multiple frequencies and relays through other stations are the only methods of avoiding such interference.

Satellite Communication

Far above the planet, thousands of satellites are orbiting Earth. Some are taking high-resolution photographs and beaming them back to ground stations, allowing companies like San Francisco-based Planet Labs to count how many ships are in a port. The spate of viral satellite images of Evergreen Marine's *Ever Given*, grounded in the Suez Canal in March 2021, cemented the importance of satellites for tracking and documenting the global shipping fleet. Other satellites provide television and phone service and, increasingly, Internet access to remote corners of the planet. More and more, these space borne sentinels are linking up with the maritime sector.

INMARSAT

Use of INMARSAT services in the Arctic is the same as in the south, until the ship approaches the edge of the satellite reception. At high latitudes where the altitude of the satellite is only a few degrees above the horizon, signal strength is dependent on the height of the receiving dish and the surrounding land. The 1990 repositioning of the Atlantic West satellite has extended its area of coverage to include most of Lancaster Sound and Barrow Strait. As the ship leaves the satellite area of coverage the strength of the link with the satellite will become variable, gradually decline, and then become unusable. When the strength has diminished below that usable for voice communications, it may still be possible to send telexes. Upon the ship's return to the satellite area of coverage there may be problems in obtaining the satellite signal and keeping it until the elevation is well above the horizon.

IRIDIUM

Iridium as of end of 2017 has over 60 satellites to service communications world wide including Arctic regions. Additional X-Gate package from GMN provides excellent and reliable E-Mail services and attachment of ice chart imaging. The Pilot package gives freedom of Internet access including tracking.

Introducing Iridium Certus 100 for 2022.

The all new Certus 100 terminal from Blue Sky Networks! At 88 Kbit/s, the Skylink is significantly faster than the older 'dial-up' Iridium phones (such as the Iridium GO! and 9555/9575 phones which all operate at 2Kbit/s), and has excellent voice quality.

The increase in speed means that the Skylink is far more capable and flexible than the Iridium's older handheld devices and offers something closer to 'modern' internet access, enabling weather applications, messaging applications such as WhatsApp and the downloading of attachments.

Key features:

- Regular (and distress) voice calls
- Receiving emails (including with attachments)
- Full sized GRIB Weather downloads (eg, access Windy from your phone)
- Receiving photos and small videos
- WhatsApp & social media
- (Light) Internet browsing
- Compact and portable - not much larger than a paperback book
- Integral 4G cellular router
- Integral smart firewalling

The Skylink comes with an external marine antenna and cable for the satellite element of the terminal. A number of additional adapters are available to purchase separately – such as a POTS adapter, allowing you to connect a regular BT style home phone for making satellite calls if desired (this is not required though, as you can also use a VoIP - voice over IP - application on your mobile phone to place calls via the Skylink).

Starlink

Starlink made the revolution nearly everywhere in 2023 and mainly in Arctic.

Out at sea, a significant amount of this data will be transmitted by satellites - specifically, those in low Earth orbit (LEO), where U.S.-based SpaceX operates its Starlink satellite constellation.

From 550 kilometres (340 miles) above the planet, Starlink satellites provide high-speed, low-latency broadband Internet to users below including, crucially, across most of the world's oceans. This has helped to radically boost connectivity speeds. Previously, satellite Internet at sea was provided by medium-Earth-orbit and geostationary satellites up to 35,000 kilometres (21,700 miles) above the planet. Greater distances from Earth meant much slower Internet connection speeds, limiting the service's utility.

Its low orbit makes cell phones operation so much easier. No need for dedicated Email address. Just use your present gmail or anything you have. Its service is based on internet. You can not use Starlink in a life raft. If you are in a storm, Starlink might not work, or might be damaged, but the Iridium will work normally. Iridium will work off an internal battery when the power goes out.

Different products for different purposes:

- Starlink = High power, large antenna, high-speed data, works when it wants, voice fiddly but can be made to work.
- Iridium go = lower power, smaller antenna, lower speeds, works most of the time, voice doubtful at best.
- Iridium Certus = lower power, smaller antenna, lower speeds, works always, voice always there, expensive.
- Inreach etc = self contained/very low power, smaller antenna, short text messages, no voice, works always.

Tracking GSM or satellite?

The Global System for Mobile Communications (GSM) is equivalent to a mobile phone signal and it doesn't cover Arctic regions. Iridium's 66 satellites guarantee total global coverage, including in polar regions and mid-ocean. If you are heading further afield or if you require two-way communications Iridium should be your choice.

Fixed or portable? Fixed trackers can be securely mounted, wired into a 12V supply and hidden from view. Portable trackers for the active person are a lifestyle purchase, useful for crews rather than boat owners.

Mapping portal, How does your chosen tracker export and display your positions? Not all trackers come with their own mapping portal, so bear that in mind.

Popular devices like Spot, **DeLorme InReach**, **Yellow Brick** are reliable for Arctic usage all the time.

In 2016 Garmin made acquisition of DeLorme and Spot. Only DeLorme remains as a part of Garmin's offering.

Spot is now with Globalstar and doesn't cover all Arctic. Predict Wind now offers tracking with winds prediction in one package, not very precise in Arctic.

Other European supplies also offer different devices with variety of features and prices suiting sailors. Selective options will have to be used for comprehensive results.

Tracking services Shiptrak or Pangolin are useless for Arctic tracking requiring 10 minutes reporting intervals for secure & proper guidance.

Notes to the places:

If no note about safe anchorage or specific anchor bottom holding that means no information is available.

If no emergency landing strip mentioned it means no aircraft can land for lift off.

Note to cellular phone users: Greenland, Nunavut, Northwest Territory and Yukon are not covered with roaming that Europe, North America can enjoy **unless satellite connections are in place**. For Alaska North Slope shore it is very limited while starting from Barter Island it gets increased and from Nome more frequent localized while Alaska roaming service has to be in place. Places of Alaska Peninsula gets black spots off high hills as well as Homer, Seward, Prince William Sd. and Alaska Inside Passage.

Internet users can enjoy good connections in Greenland as it is linked through fibre optics cable to Nuuk since 2009. Its G4 connections can be used by purchasing user card. Communities in southern Yukon and Northwest Territories also have speedy fibre connections. The rest of Arctic Canada unfortunately relays on slow satellite signal of mainly no more than 1200 baud while practical is about 600 baud.

Canadian Government has set a download speed to 3Mbp/s for 2017, a step down from previous commitment. So, the need to turn off the updates to operating system is needed in order to avoid locking computer.

Arctic Fibre, a Canadian company, initiated the project to build the first Asia-Europe telecommunications line through the Arctic. Logistics delays are uncertain now. Alaska connections to Anchorage, Kenai, Homer, Seward and Kodiak are through the cable including Anchorage, Juneau, Seward, Ketchikan, Warrenton, Sitka, Angoon, Petersburg, Wrangell and Prudhoe Bay. No Nome to Barrow is included.

Parcels

Many emergency parcels with spare parts air lifted to Arctic or Alaska were missed in past and not delivered on time. To make sure of prompt delivery the **Way-bill Number** has to be printed on parcel by shipper in big **Letters / Numbers** visible from the distance by the warehouse personnel. It will ease identification fast.

Adding **URGENT** slogan visible from miles away may help. Address to c/o (care of) / Poste Restante, Airport name or Postal Station including its postal code, boat name and recipient name and its Email address. In order to avoid custom duties hassle, the best is to ship from local place like Canada or USA. For American parcels to Alaska use US Postal Service which is faster than courier as Postal contracts with airlines specify Mail cannot be bumped from flight. Any shipment to Nome, Alaska can be made through UPS as they provided very speedy service in recent years of just few days from Eastern Sea Board of US.

Flights to and from Greenland

Only direct flights to Greenland are from Denmark and Iceland. Icelandair is one of two airlines that fly to Greenland from international destinations. Flights to Greenland from US or Canada typically include a stopover in either Denmark or Iceland. Play Airlines of Iceland is pulling out of Canada less than two years after entering the market. The discount carrier's schedule shows that starting in late April 2025 it will stop its four flights per week from Hamilton, Ontario to its home base in Reykjavik, Iceland. That was the shortest flight from Canada to Greenland instead flights via Denmark. Play Airlines will continue its flight out of Boston, Baltimore and New York.

Other Notes:

Typically **Kenn Borek** Aircrafts can land nearly anywhere in Arctic and provides an emergency lifts. They work with Aklak Air and Unaalik Aviation. Contact at: Kenn Borek, 290 McTavish Rd. NE, Calgary, AB T2E 7G5 phone 403-291-3300, 1-800-536-1149 toll free, admin@borekkair.com and Resolute Bay, NU, Canada, P.O. Box 210, X0V 0V0, **ph. 867-252-3845**, yrb@kbaops.com

Geographical positions reported by Vagabond'eux are very accurate as they were using Sat-Nav system, predecessor of today GPS. At that time they were fortunate to get only once a day an accurate position regardless cloud cover. Obtaining reliable GPS signal in the Arctic depends on "visibility" of satellite signal coming from south direction. Any obstruction of horizon below 3° will make signal very weak or unavailable.

For other support notes refer to Royal Cruising Club Pilot Foundation (RCCPF) as well as Canadian Hydrographic Service Sailing Directions **ARC400**, **ARC 401**, **ARC402** and new **ARC403**.

-NEW:

Final Notes on Canadian Charts

Canadian Hydrographic Service – Paper Chart Catalogs – Printing to be Discontinued as it is world wide trend.

The Canadian Hydrographic Service permanently discontinued the printing of all volumes of the Paper

Chart Catalogues effective March 1st, 2022. As such, they will only be available digitally and will not be available in paper format. The Paper Chart Catalogs are available for free in a variety of digital formats on charts.gc.ca:

<https://charts.gc.ca/publications/catalogues-eng.html>
<https://waves-vagues.dfo-mpo.gc.ca/Library/41028715.pdf>

<https://charts.gc.ca/charts-cartes/paper-papier/papertable-tablepapier-eng.asp#wb-auto-4>

Advances in technology bring a new era of marine navigation with a focus on digital and electronic products.

The Canadian Hydrographic Service is transforming the way it delivers quality data and services to clients, in a timely manner, to support decision-making. For more information, visit charts: <https://charts.gc.ca/>

-NEW:

Dec. 2021 Canadian Hydrographic Service – Sailing Directions – Section 4 Notices to Mariners and Printing of Volumes to be Discontinued. Sailing Directions are updated as required throughout the year to ensure safe navigation.

The process to communicate these changes to the mariners will be amended as follows starting January 2022:

- All digital volumes will include a new section entitled “Record of Changes” which will list all updates that were incorporated during the **current** calendar year;
- The Canadian Hydrographic Service will permanently discontinue the publication of these changes in Section 4 of the monthly Notices to Mariners;
- Section 4 of the monthly Notices to Mariners will instead list the titles of the volumes that were amended during the previous month and link to their download page on charts.gc.ca
- CHS will no longer maintain the separate “Cumulative Corrections for Sailing Directions” currently available on notmar.gc.ca .

Due to the availability of all volumes of the Sailing Directions on charts.gc.ca as free downloadable PDF files, the Canadian Hydrographic Service will permanently discontinue their printing effective March 1 st , 2022.

As such, all future volumes will only be available digitally and will not be sold in paper format.

Those books can be downloaded from Internet for free at:
<https://www.charts.gc.ca/publications/sailingdirections-instructions-nautiques-eng.html>

Effective April 1st 2013, in an effort to adopt and focus on newer technologies, the Canadian Coast Guard (CCG) did cease the printing of its List of Lights book & Annual Edition of the Notices to Mariners. Instead Internet based Notices are in place. For Canadian Arctic it only applies for approaches to Tuktoyaktuk Harbour List of Lights book. Also note, NOAA as of 1 January 2020 stopped selling traditional paper charts.

According to the Geographical Names Board of Canada many Arctic names are now changed to Inuktitut language of native Inuits.

Eclipse Sound officially is now **Tasiujaq**
Pond Inlet is now **Tursukattak** (inlet)
Pond Inlet is now **Mittimatalik** (town)
Baffin Bay is now **Saknirutiak Imanga**
Cambridge Bay is now **Ikaluktuutiak**
Tuktoyaktuk is now **Tuktuyaaqtuuq**
Barrow is now **Utqiaġvik**
Sachs Harbour is now **Ikaġhuak**
Holman is now **Ulukhaktok**
Cape Dorset is now **Kinngait**

Refueling points are (approx.):

Aasiaat to Pond Inlet 680 Nm
Pond Inlet to Gjoa Haven 780 Nm
Gjoa Haven to Cambridge Bay 330 Nm
Cambridge Bay to Tuktoyaktuk 780 Nm
Tuktoyaktuk to Nome 1200 Nm
Pond Inlet to Cambridge Bay via Peel & Victoria Str. 900 Nm.

Resolute re-fulfilling may not be reachable due to frequent ingress of heavy ice around.

Note by Ken Burton, RCMP Inspector

Community Culture and Customs-for the visitor

When visiting an Inuit community some advance knowledge is always a good thing. Following these simple community guidelines will go a long way to ensure that your visit is safe and enjoyable.

Minimize the potential of spreading any ship-or aircraft-based germs, by cleaning your hands thoroughly prior to visiting. This is equally important on your return to the ship or aircraft. Do not visit or interact with community members if you are ill.

Canadian currency are expected while in Greenland Danish Krone not Euro. Only a few sites offer credit card transactions (usually the visitor center, Co-Op or Museum). US currency is accepted while not everywhere, although normally at par with the Canadian dollar. Banking infrastructure is very limited. Do not expect to find any financial establishments in the more remote areas. Carry cash with you.

Private trading of Opioids in Canada is prohibited, refrain from any attempts.

English is spoken

Shore facilities are very minimal and may be difficult to access or find (washrooms or fresh drinking water). Do not expect to find coffee bars or other services consistent with what you might expect in larger southern centers.

Most communities have a Co-Op store of some description. These are hybrid hardware, general merchandise and food stores. A community visit can be an enjoyable and educational experience for all. Set aside any preconceived notions and social bias. Enjoy a sincere and non-judgmental visit and truly appreciate the uniqueness of these communities.

Some general information, along with guidelines, are presented below.

- Speak to the people directly and not “about the people”. Most Inuit will happily engage in conversation with a sincere visitor.
- Avoid purchasing food or perishables from the community store if at all possible. Usually this food has been flown in at significant cost, and is intended for the community members and not for visitors.
- Avoid commenting on or photographing commercial items for sale in the stores. Often items for sale in the far north are sold at many times the value of the same product in a southern store.
- Avoid bartering situations, and pay fair market price for the product or service you are receiving. Be aware that the art item that you are acquiring may be subject to your home country import laws. In the USA, one of the applicable laws is the Marine Mammal Protection Act. This act makes it illegal to “import any marine mammal or part or product” back into the USA.
- Never bring alcohol or drugs into a community. It is illegal to barter alcohol for artwork in the territory.
- Keep off the middle of the road (there are no side walks). Walk on the side of the road only.
- Never approach any dogs (sled dogs) without the owner's permission. These are working animals and not family pets.
- Never take their photograph without obtaining permission. If they do not answer you or look away and frown, consider that to be a “no” and please do not take their photograph.
- Avoid photographing into people's homes and businesses.
- Never visit a community graveyard without a specific purpose and permission. Grave sites are not tourist destinations.
- Wear appropriate clothing and shoes for the anticipated weather and terrain.
- Respect private property as well as any community cultural remains. This includes not making cairns, piles of rocks or Inuksuks of any kind.
- Do not pick any plants or flowers.
- Heed warnings about polar bears or muskox.
- Do not expect to find open Internet access. Although the communities are well wired with modern digital services, the architecture of the system is based on the community needs. It does not need additional visitors flocking to various Facebook and websites.
- Consider removing muddy footwear before entering any buildings.
 - Expect to see animal remains or animal products in the process of being butchered or being processed. It is normal for northern communities to leave the head of a slaughtered whale prominently displayed, facing the ocean on a community beach. This is a deep sign of respect for the animal and it is intended to demonstrate this respect to any passing whales.

The Internet Links and Emails addresses included may change since the date of publication. Be aware. Also those Links and Emails may not respond directly by “clicking on” as different computers and operating systems may react different way. In such case just copy them into your Browser or Mail and execute appropriately.