

Mariner's Routing Guide Northwest Passage Arctic Ocean

Scale 1:4,300,000
Lambert Conformal Conic Projection
Standard Parallels: 62° 30' N, 84° 30' N
DRAFT

Principle Ports

Marine Communications and Traffic Services (MCTS)

- MCTS Center
- Peripheral Radio Site or Repeater

NAVTEX

- NAVTEX transmitter
- Limit of service

Radar Beacons (RACONS)

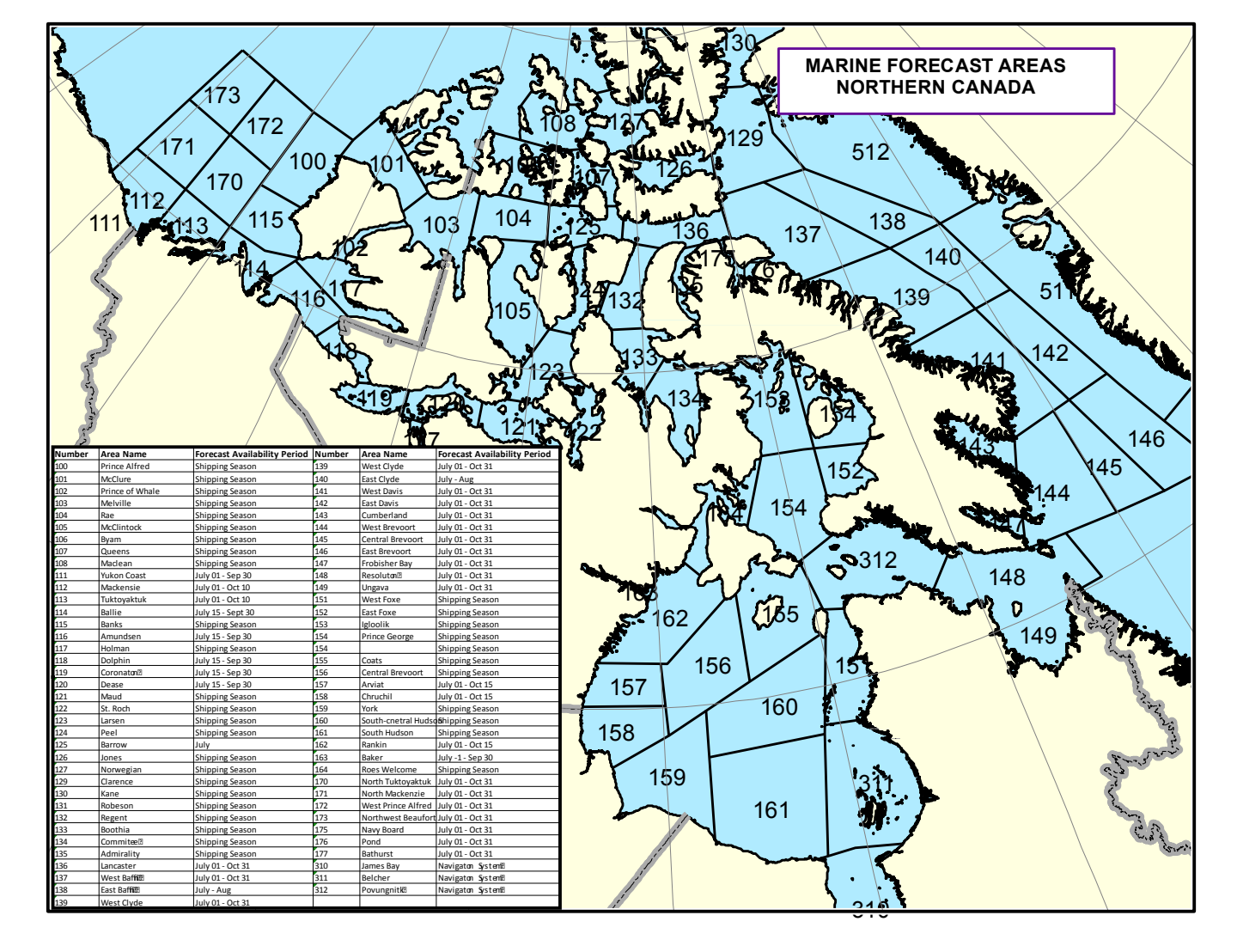
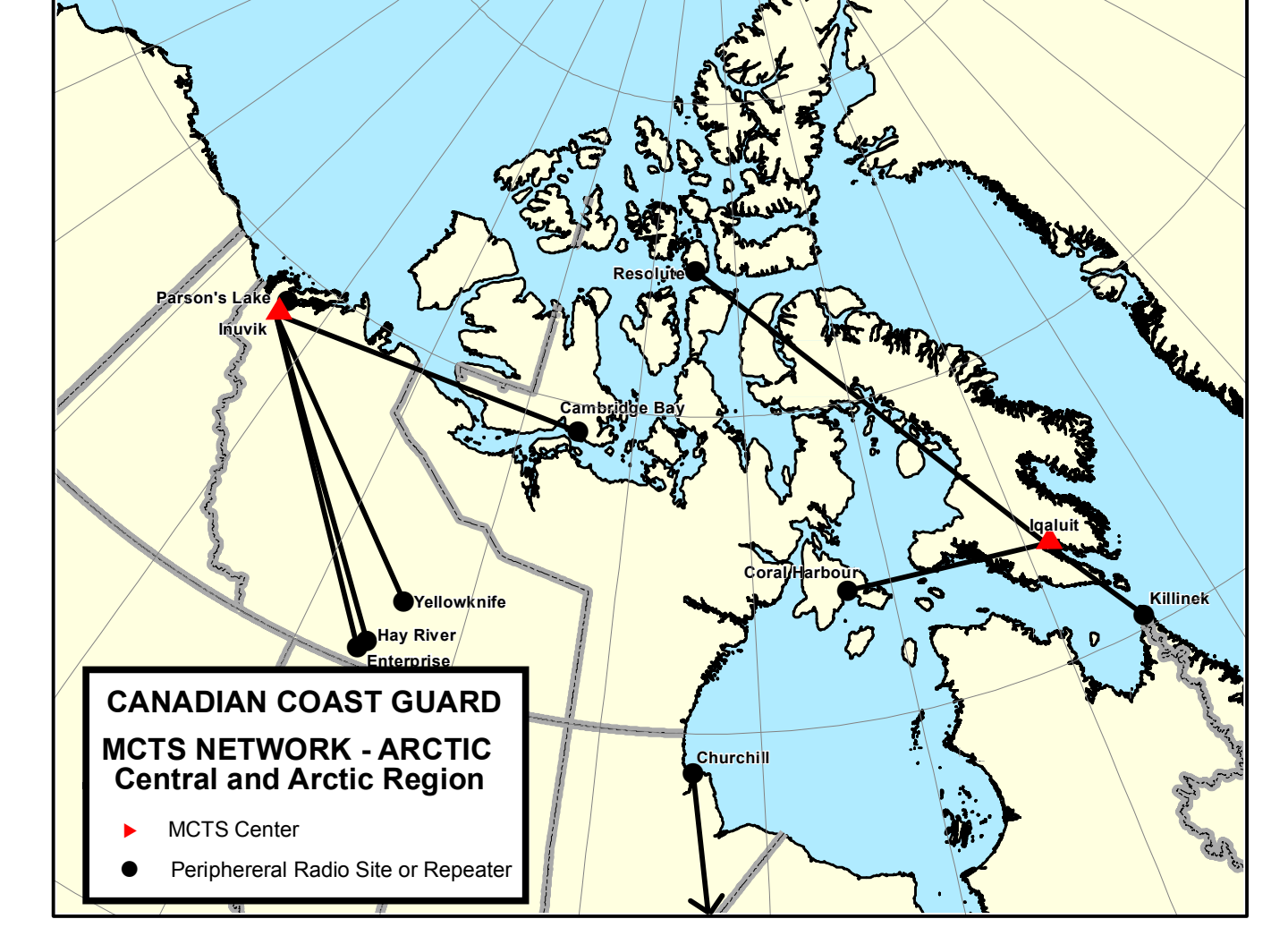
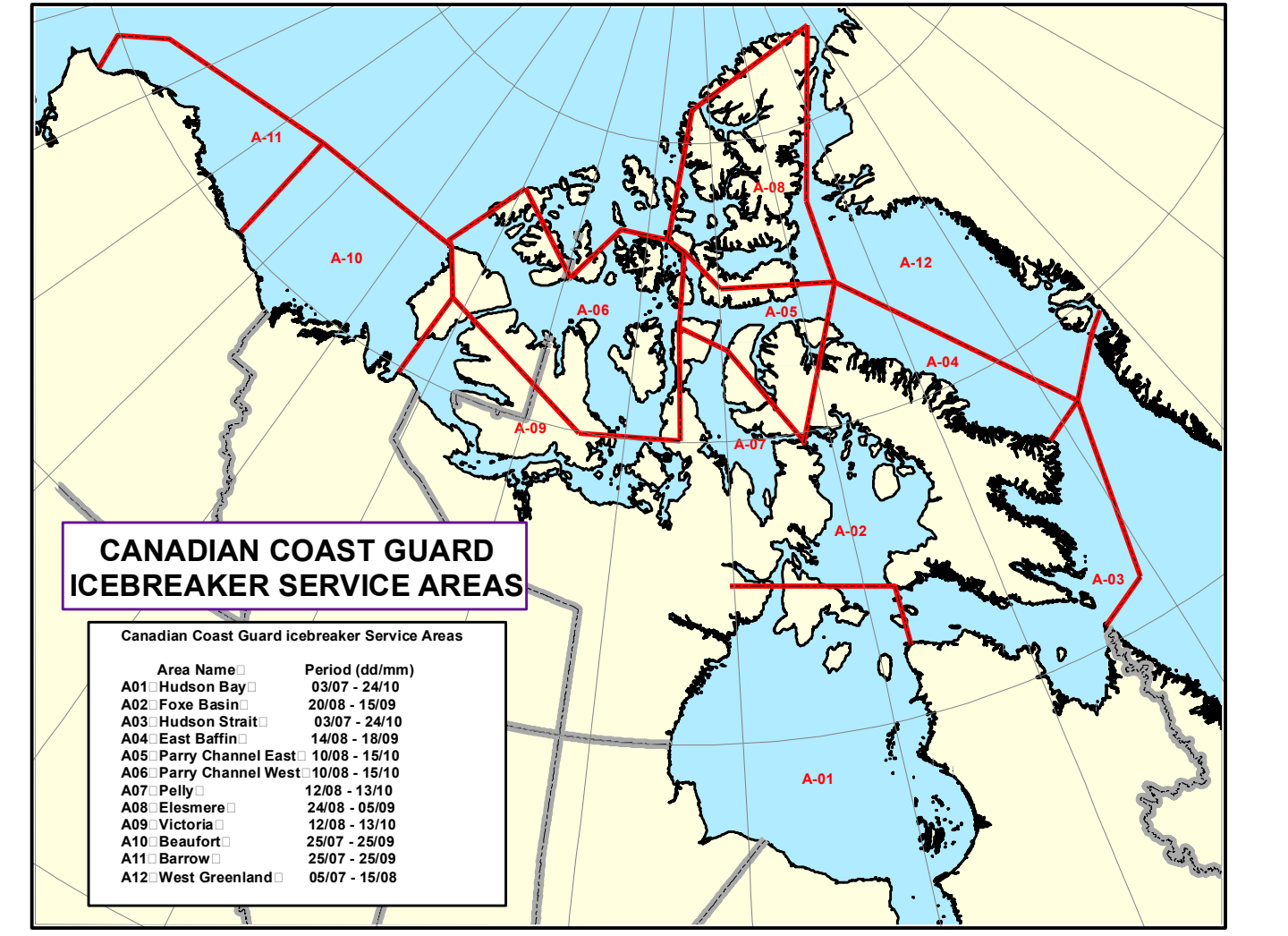
- Radar Beacons
- Range

Marine Forecast Areas

Icebreaker Service Areas

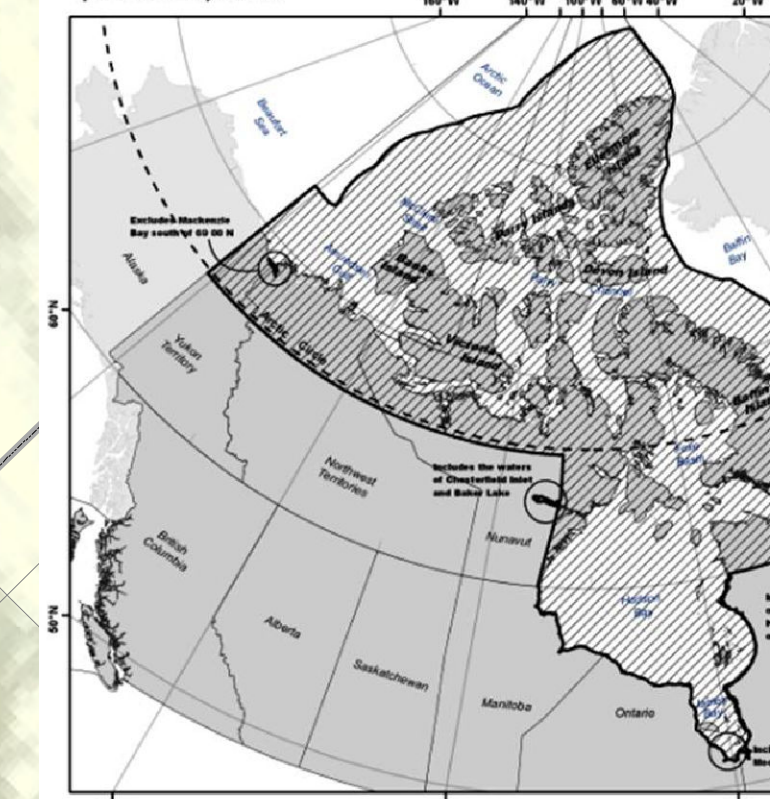
Mineral/Gas Exploration

- Closed 2002
- Existing
- Future
- Lights
- Airfield
- Northwest Passage



ALASKA (USA)

VESSEL TRAFFIC SERVICES (VTS)



The Northern Canada Vessel Traffic Services (NORVTS) Zone consists of:

- the shipping safety control zones prescribed by the Shipping Safety Control Zones Order
- the waters of Ungava Bay, Hudson Bay and Kuguklikt Bay that are not in a shipping safety control zone
- the waters of James Bay
- the waters of Koksoak River from Ungava Bay to Kunjuiq
- the waters of Foul Bay from Ungava Bay to Tanajunq
- the waters of Chesterfield Inlet that are not within a shipping safety control zone and the waters of Baker Lake
- the waters of Moose River from James Bay to Mooseonee.

The Northern Canada Vessel Traffic Services Zone Regulations apply to the following classes of vessels:

- vessels of 100 gross tonnage or more;
- vessels that are engaged in towing or pushing another vessel, if the combined gross tonnage of the vessel and the vessel being towed or pushed is 500 gross tonnage or more;
- vessels that are carrying as cargo a petroleum or dangerous goods, or that are engaged in towing or pushing a vessel that is carrying as cargo a pollutant or dangerous goods.

These regulations apply in respect of:

- every ship twenty metres or more in length;
- every ship engaged in towing or pushing any vessel or object, other than fishing gear, where:

The Canadian Marine Transportation Security Regulations (MTRSR) require a Pre-Arrival Information Report (PAIR) to be filed prior to entry into Canadian waters.

Change in Information
A report shall be made whenever a significant change occurs in the information previously provided in any report made pursuant to the Eastern Canada Vessel Traffic Services Zone Regulations or the Vessel Traffic Services Zone Regulations except where the report was made when departing from a VTS Zone.

Non-Routine Reports
Pursuant to the Eastern Canada Vessel Traffic Services Zone Regulations and the Vessel Traffic Services Zone Regulations a report indicating the vessel's name, position and a description of the incident shall be made prior to the vessel proceeding as soon as the master becomes aware of any of the following conditions:

When the vessel is about to enter the NORVTS Zone
A sailing plan report (SPR) shall be provided when the vessel is about to enter the NORVTS Zone and must include the following designators: A, B, either C or D, E, F, G, H, I, L, O, P, Q, S, T, W, and X.

Departing a berth/anchorage
A sailing plan report (SPR) shall be provided more than one hour but not more than two hours before a vessel departs from a berth within the NORVTS Zone, unless the vessel is moving to another berth in the same part.

Getting Underway After an Incident
A sailing plan report (SPR) shall be provided immediately before a vessel gets underway within the NORVTS Zone if the vessel has been damaged as a result of a breakdown in the main propulsion systems or steering systems and has been involved in a collision.

Entering a VTS Zone Boundary
A position report (PR) shall be provided immediately after a vessel enters the NORVTS Zone and must include the following designators: A, B, either C or D, E, F, and S.

NORVTS Report Contacts
NORVTS reports shall be sent to the nearest MCTS Center.

Entering a VTS Zone Boundary
A position report (PR) shall be provided immediately after a vessel enters the NORVTS Zone and must include the following designators: A, B, either C or D, E, F, and S.

Hydrographic Charts

Attention is drawn to the Canadian charts and publications regulations, an abbreviated description of which is given in the Annual Summary of Admiralty Notices to Mariners. Many of the present Canadian Arctic charts are based on aerial photography. There also are some charts where discrepancies of appreciable magnitude exist, such as in the charted positions of islands in relation to the adjacent coast, and in distances between coastlines forming channels.

The maritime territorial claims of Canada are, as follows:

- Territorial Sea: 12 miles
- Contiguous Zone: 24 miles
- Fisheries or Economic Zone: 200 miles
- Continental Shelf: 200 miles or the Continental Margin.

World-wide Navigational Warning Service - METAREA/NAVAREA

METAREA/NAVAREAS XVII, XVIII, and IV

Effective 01 June 2011, an International SafetyNET Service for broadcasting navigational warnings and meteorological warnings and forecasts in the English Language was declared to be in a "Full Operational Capability" (FOC) in Canada for METAREAS XVII and XVIII and NAVAREAS XVII and XVIII.

Arctic NAVAREA Broadcast Schedules:
NAVAREA XVII (ROR) at 1100UTC and 2300UTC
NAVAREA XVIII (AOR-W) at 1100UTC and 2300UTC

Arctic METAREA Broadcast Schedules:
METAREA XVII (ROR) at 0900UTC and 1500UTC
METAREA XVIII (AOR-W) at 0900UTC and 1500UTC

Contact Information:
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navarea4@inga.mil

Churchill Harbor (58°47'N, 94°12'W)
World Port Index No. 1900
The terminal part of the Canadian National Railway, lies at the mouth of the Churchill River. The town of Churchill, with its grain elevators and port facilities, lies on the S side of the river, close SE of its mouth. The port is a major grain terminal for the shipment of Canadian wheat.

Winds—Weather—The only gales that affect the harbor are those from the NE, which send in a choppy sea for a short distance inside the entrance and along the NW side. The E side is generally possible by the last week of July. The latest departure dates are governed by the start of ice formation in Churchill Harbor. Navigation usually ends about October 20.

Tides—Currents—The tidal range varies from 4.8m at springs to 3.4m at neaps.
Depths—Limitations—Depths in the approach to the harbor entrance range from 19.8m at Fairway Lighted Bell Buoy, shoaling gradually to a depth of 7.1m about 0.5 mile NE of the entrance, then decreasing to depths of 11.3 to 2.1m in the entrance between Cape Merry and the mainland to the NW.

Note: This product is not to be used for navigation.