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Maritime Services Directorate
Aids to Navigation



EXPLANATORY NOTES

Geographical positions refer directly to the graduations of the largest scale Canadian Hydrographic chart unless otherwise indicated.

Bearings refer to the true compass and are measured clockwise from 000° (North) clockwise to 359°; those relating to lights are from seaward.

Visibility of lights is that in clear weather.

Depths - The units used for soundings (metres, fathoms or feet) are stated in the title of each chart.

Elevations are normally given above Higher High Water, Large Tides unless otherwise indicated.

Distances may be calculated as follows:

1 nautical mile = 1 852 metres (6,076.1 feet)

1 statute mile = 1 609.3 metres (5,280 feet)

1 metre = 3.28 feet

Temporary & Preliminary Notices are indicated by a (T) or a (P) before the chart action and in the section 1. Please note that Nautical charts are not amended by the Canadian Hydrographic Service for Temporary (T) and Preliminary (P) Notices. It is recommended that mariners chart these corrections in pencil. Listing of charts affected by Temporary and Preliminary Notices are revised and promulgated quarterly in Section 1 of the Monthly Edition.

Please note that, in addition to the temporary and preliminary changes normally advertised as (T) and (P) Notices, there are a few permanent changes to navigational aids that have been advertised as Preliminary Notices to Mariners while charts are being updated for new editions.

Marine Information Report & Suggestion Sheet - Mariners are requested to notify the responsible authorities when new or suspected dangers to navigation are discovered, changes observed in aids to navigation or corrections to publications are seen to be necessary. Such communications can be made using the *Marine Information Report & Suggestion Sheet* inserted on the last page of each monthly edition of *Notices to Mariners*.

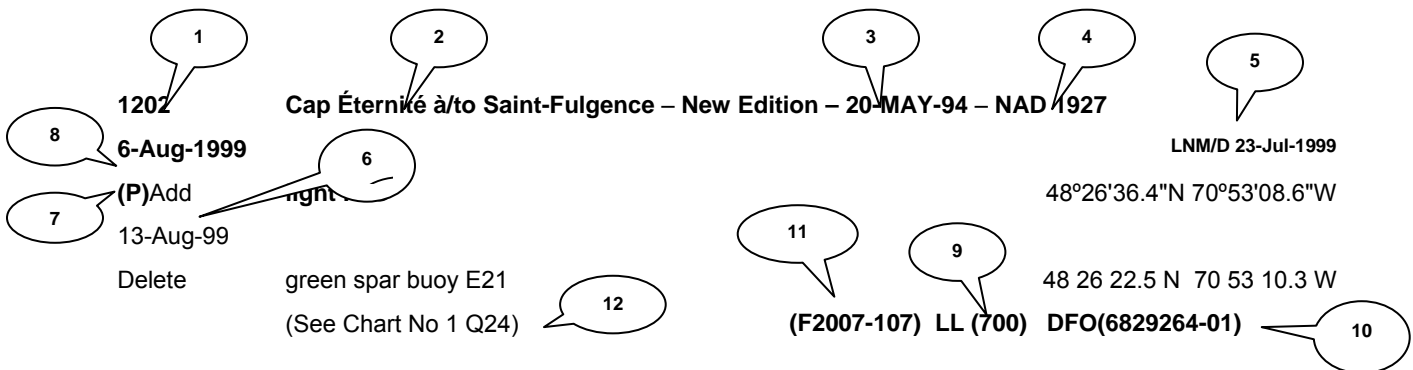
Monthly Notices to Mariners - WEB ACCESS - We are offering a feature where subscribers to our on-line service are able to receive the complete electronic monthly edition of our Notices to Mariners. We are encouraging our clients to visit the <http://www.notmar.gc.ca/subscribe/> user-friendly web site to subscribe for this service. Users wishing to receive information updates for their charts can do so by setting up a "User Profile" on the following web page – <http://www.notmar.gc.ca/search/mycharts-eng.php?czoxOToibnRtPXN0ZXBfb25Jmxbhmc9ZSI7>. This feature permits users to register the nautical charts they currently have in their possession. Registrants are then automatically notified by e-mail when a Notices to Mariners is published concerning these charts.

Canadian Nautical Charts & Publications - A source list of *Canadian Nautical Charts & Publications* is published in Notice No. 14 of the *Notices to Mariners Annual Edition April 2010*. The source supply and the prices effective at the time of printing are listed. For current chart edition dates refer to the following web site: <http://www.chs-shc.gc.ca/charts-cartes/paper-papier/index-eng.asp>

NOTE: Cette publication est aussi disponible en français.

CHART CORRECTIONS - SECTION 2

Corrections to nautical charts will be listed in numeric order by chart number. Each chart correction listed applies only to that particular chart. Related charts, if any, will have their own specific correction listed separately. Users should also refer to CHS Chart 1 Symbols, Abbreviations Terms for additional information pertaining to the correction of charts. The illustration below describes the elements that will comprise a typical Section 2 chart correction.



1 - Chart Number

2 - Chart Title

3 - Chart's latest New Edition date

4 - Horizontal Chart Datum

5 - Last Correction

6 - Chart action

7 - Notice type

8 - Weekly chart correction date

9 - List of light number

10 - CHS reference number

11 - CCG reference number

12 - Chart No 1 reference number

The last correction number is identified with the **LNM/D** or **Last Notice to Mariners Number / Date**. This number is expressed in either old notice number format (ex.: 594/99) or in day-month-year format which is the date known as the weekly chart correction date shown in the above diagram as item (8).

ADVISORY

NOTICES TO SHIPPING (WRITTEN AND BROADCAST)

The Canadian Coast Guard is implementing a number of changes to the aids to navigation system in Canada.

These changes are advertised as Notices to Shipping (Broadcast and Written) by the Canadian Coast Guard and are followed up with Notices to Mariners, then charts are updated by hand correction, reprints or new editions.

Mariners are advised that all relevant Written Notices to Shipping should be kept until superseded by Notices to Mariners or through revised charts issued by the Canadian Hydrographic Service.

Written Notices to Shipping are published weekly and are available from local Canadian Coast Guard Offices.

The Canadian Hydrographic Service is reviewing the impact of these changes with the Canadian Coast Guard and together we are preparing an action plan on the issuing of chart revisions.

For further information contact your local Regional Notices to Shipping (Notships) issuing authorities.

Pacific

Fisheries and Oceans Canada,
Canadian Coast Guard,
Vancouver MCTS
Suite 2380, PO Box 12107
555 West Hastings Street
VANCOUVER BC V6B 4N6

Telephone : 604-666-6011
Telex Number: 043-52586 CGTC VAS VCR
Facsimile : 1-604-666-8453
Email: mctsvancouver@pac.dfo-mpo.gc.ca

Website: http://www.pacific.ccg-gcc.gc.ca/mcts-sctm/vancouver/index_e.htm

Fisheries and Oceans Canada,
Canadian Coast Guard,
Inuvik MCTS Centre
P.O. Box 2659
INUVIK NT X0E 0T0

Telephone: 867-777-2667
Facsimile: 867-777-2851

For information on Notices to Shipping:

RMIC Email: rmic-pacific@pac.dfo-mpo.gc.ca
Website: http://www.pacific.ccg-gcc.gc.ca/mcts-sctm/notship/index_e.htm

MONTHLY EDITION OF NOTICES TO MARINERS

WEB ACCESS

We are offering a feature where subscribers to our on-line service are able to receive the complete electronic monthly edition of our Notices to Mariners. We are encouraging our clients to visit the <http://www.notmar.gc.ca/subscribe/> web site to subscribe for this service.

Users wishing to receive information updates for their charts can do so by setting up a "User Profile" on the following web page <http://www.notmar.gc.ca/search/mycharts-eng.php?czoxOToibnRtPXN0ZXBfb25lJmxbmc9ZSI7>

This feature permits users to register the nautical charts they currently have in their possession. Registrants are then automatically notified by e-mail when a Notice to Mariners is published concerning these charts.

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3601	11				
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4617	2				
5065	2				
5456	2				
7685	12,13				

**SECTION 1 – Edition 08/2010
SAFETY AND GENERAL INFORMATION**

CANADIAN HYDROGRAPHIC SERVICE - ANNOUNCEMENT REGARDING CANADIAN HYDROGRAPHIC SERVICE CHART PATCHES

Colour Web Patches are free to the mariner, and given the quality of many printers, should reproduce well. They will be available in real time all around the world.

CHS welcomes your feedback on this service at chsinfo@dfo-mpo.gc.ca

CANADIAN HYDROGRAPHIC SERVICE - CUMULATIVE CHART CORRECTIONS

The cumulative Notices to Mariners corrections for charts can now be accessed at <http://www.notmar.gc.ca/search/notmar-eng.php>

CANADIAN HYDROGRAPHIC SERVICE - CURRENT CHART EDITION DATES

CHART EDITIONS

The three terms described below are used to indicate the publication status of Canadian charts.

NEW CHART - "NEWCHT"

The first publication of a Canadian chart embracing an area not previously charted to the scale shown, or embracing an area different from any existing Canadian chart.

NEW EDITION - "NEWEDT"

A new issue of an existing chart containing amendments essential to navigation in addition to those issued in Notices to Mariners and making existing editions obsolete.

REPRINTS

A new issue of the current edition of a chart incorporating no amendments of navigational significance other than those previously promulgated in Notices to Mariners. It may also contain amendments from other sources provided they are not essential to navigation. Previous printings of the current edition remain in force.

The current chart edition dates can be accessed at <http://www.chs-shc.gc.ca/charts-cartes/paper-papier/index-eng.asp>

CANADIAN HYDROGRAPHIC SERVICE - PRINT ON DEMAND CHARTS - CARE AND USE

Background

By providing nautical charts to the public, the goal of the Canadian Hydrographic Service (CHS) is to provide services for safe navigation in a fiscally responsible manner. As a result, CHS continues to expand its portfolio of nautical paper charts that are printed using Print On Demand (POD) technology. These charts are easily recognized by their whiter paper and the coloured logo of the Canadian Hydrographic Service. This new technology enables CHS to print charts in a more efficient manner while enhancing chart content through being able to quickly add new and important information. POD technology provides customers with up-to-date charts without the historical hand-drawn corrections or glued-on patches. Additionally, this technology eliminates out-of-stock situations which arise with the traditional printing and warehousing methods. In the event of a national emergency, CHS can respond to the appropriate authorities with best available information very quickly.

Care of Your POD Chart

CHS encourages its customers to handle the POD charts more carefully than the traditional lithographic charts. When plotting information on POD charts, use HB pencils and apply limited pressure. Testing has suggested that an Indian gum eraser is more effective than alternatives when used on the product. This eraser is also suitable for charts printed using lithographic processes.

CANADIAN HYDROGRAPHIC SERVICE - TRANSPORT CANADA NAVIGATION SAFETY - ECDIS

Mariners are advised that ECDIS may not display some isolated shoal depths when operating in "base or standard display" mode. Route planning and monitoring alarms for these shoal depths may not always be activated. To ensure safe navigation and to confirm that a planned route is clear of such dangers, mariners should visually inspect the planned route and any deviations from it using ECDIS configured to display "all data". The automated voyage planning check function should not be solely relied upon.

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SAFETY AND GENERAL INFORMATION**

***801 CANADIAN HYDROGRAPHIC SERVICE - NAUTICAL CHARTS**

CHARTS	MAIN TITLE	SCALE	PUBLISHED	CAT#	PRICE
New Chart					
5065	Gray Strait and / et Button Islands	1:40000	27-NOV-2009	1	\$20.00
New Editions	All temporary and preliminary notices affecting the previous versions of the following chart(s) (is / are) now cancelled. For any outstanding notices please consult section 2 of this edition.				
3493	Vancouver Harbour, Western Portion / Partie Ouest	1:10000	11-JUN-2010	2	\$20.00
4617	Red Island to / à Pinchgut Point	1:40000	30-APR-2010	1	\$20.00
Chart Permanently Withdrawn					
5456	Button Islands				

***802 CANADIAN HYDROGRAPHIC SERVICE - ELECTRONIC NAVIGATIONAL CHARTS**

RELEASED PRODUCTS	
S-57 ENC NUMBER	CHART TITLE
CA470591	Continuation A
CA470609	Tuwartz Narrows
CA470622	Browning Entrance
CA570623	Griffith Harbour
CA573391	Gjoa Haven
CA576223	Burin Harbours
CA376358	Green Bay to / à Double Island
CA576359	Chateau Bay
CA476360	Niger Sound
CA470003	Haro Strait, Boundary Pass and / et Satellite Channel
CA570128	Tilbury Island to / à New Westminster
CA470218	Baynes Sound
CA570238	Fulford Harbour
CA570567	Approaches to / Approches à Sidney
CA373070	Passage Island to / à Thunder Bay
CA373295	Big Bay to Murray Canal
CA576003	Halifax Harbour - Point Pleasant to / à Bedford Basin
CA576004	Ocean Terminals
CA376094	Strait of Belle Isle
CA576222	Petit-de-Gras Inlet
CA276284	Sydney to Saint-Pierre
CA579055	Cap-Chat
CA579056	Les Méchins
CA479057	Mont-Louis
CA479058	Sainte-Anne-des-Monts
CA579167	Rivière-au-Renard
CA579213	Grande-Vallée

***803 CANADIAN COAST GUARD PUBLICATION – ANNOUNCEMENT REGARDING LORAN-C SERVICE**

In January 2010, both the Canadian Coast Guard (CCG) and the United States Coast Guard (USCG) announced the termination of the Loran-C signal.

The USCG terminated the transmissions of all U.S. domestic Loran-C signals including those covering the Great Lakes on February 8, 2010.

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SAFETY AND GENERAL INFORMATION

On August 3rd, 2010, the CCG and USCG jointly terminated the Loran-C service covering the East and West coasts of Canada.

Mariners are advised that Loran-C service is no longer available and therefore cannot be used for navigation. Comments should be directed to John Festarini, A/Manager, Aids to Navigation, Canadian Coast Guard, 200 Kent St., 5th floor, Ottawa, ON, Canada, K1A 0E6, E-mail to John.Festarini@dfo-mpo.gc.ca or by phone at (613) 998-1411. http://www.ccg-gcc.gc.ca/eng/Ccg/atn_Loran_C

***804 TRANSPORT CANADA (TC) - MARINE COMMUNICATIONS AND TRAFFIC SERVICES (MCTS) - NORTHERN CANADA VESSEL TRAFFIC SERVICES ZONE REGULATIONS - ANNOUNCEMENT REGARDING NORDREG**

As of July 1, 2010, the Northern Canada Vessel Traffic Services (NORDREG) Zone reporting system became mandatory for certain vessels. The NORDREG Zone, which covers Canada's northern waters, has also been extended to the outer limit of the exclusive economic zone of Canada. The following vessels are required to report information to NORDREG:

- Vessels of 300 gross tonnage or more;
- Vessels that are engaged in towing or pushing a vessel, if the combined gross tonnage of the vessel and the vessel being towed or pushed is 500 gross tonnage or more; and
- Vessels carrying as cargo a pollutant or dangerous goods, or engaged in towing or pushing a vessel carrying as cargo a pollutant or dangerous goods.

The above vessels destined for the NORDREG Zone or navigating within the zone should contact NORDREG CANADA or the nearest CCG MCTS Centre for full information on how to comply with the new requirements.

***805(P) MARINE COMMUNICATIONS AND TRAFFIC SERVICES (MCTS) - DISCONTINUANCE OF POLL FAX SERVICE**

The Canadian Coast Guard intends to permanently discontinue the Marine Facsimile Package, also known as the POLLFAX Service offered by Prescott MCTS Centre.

Comments on this action are solicited from mariners and other interested parties. Comments should be directed by mail to: Frank Dwyer, Officer-in-Charge, Prescott MCTS, P.O. Box 1000, Prescott, ON, K0E 1T0 or by fax (613) 925-4519 or by email at VBR@DFO-MPO.GC.CA within 3 months of this notice.

Any objections raised must state the facts on which they are based and should include supporting information on safety, commerce and public benefit.

You can find most of the information currently available on the POLLFAX at the following internet sites: www.weatheroffice.gc.ca <http://ice-glaces.ec.gc.ca>

***806 MARINE COMMUNICATIONS AND TRAFFIC SERVICES (MCTS) - ESTABLISHMENT OF ARCTIC MARITIME SAFETY INFORMATION SERVICES - 5 NEW ARCTIC NAVAREAS/METAREAS**

The International Maritime Organization (IMO), the International Hydrographic Organization (IHO), and the World Meteorological Organization (WMO) announce the establishment of five (5) new Arctic NAVAREAs/METAREAs as part of the expansion of the IMO/IHO World-Wide Navigational Warning Service (WWNWS) into Arctic waters. The limits of the new Arctic NAVAREAs/METAREAs are identified in the attached graphic. Effective 01 July 2010, an International SafetyNET Service for broadcasting navigational warnings and meteorological warnings and forecasts in the English language will be declared to be in an "Initial Operational Capability" (IOC) for these waters with a transition to "Full Operational Capability" (FOC) on 01 June 2011.

During the IOC period, these Arctic NAVAREA/METAREAs will be providing navigational warnings and meteorological warnings and forecasts on an intermittent and test basis. The broadcasting of SafetyNET messages to the new Arctic NAVAREA/METAREAs will be addressed to rectangular area(s) until the SafetyNET receiver modifications with the inclusion of the NAVAREA/METAREAs boundary limits and its identification are in place. Reception of rectangular addressed messages should be automatic providing the ship's position is inside the addressed area. However, mariners are advised to check their manufacturer's operation manuals to obtain information on the setting of their EGC receivers to receive relevant SafetyNET messages.

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SAFETY AND GENERAL INFORMATION

Arctic NAVAREA Co-ordinators and METAREA Issuing Services are:

NAVAREA/METAREA XVII - CANADA
NAVAREA/METAREA XVIII - CANADA
NAVAREA/METAREA XIX - NORWAY
NAVAREA/METAREA XX- RUSSIAN FEDERATION
NAVAREA/METAREA XXI - RUSSIAN FEDERATION

Arctic NAVAREA/METAREA Boundary limits:

NAVAREA/METAREA XVII bound by:

67° 00'.00N 168° 58'.00W,
90° 00'.00N 168° 58'.00W,
90° 00'.00N 120° 00'.00W,
south to the Canadian coastline along the 120°00'.00W meridian;

NAVAREA/METAREA XVIII bound by:

A position on the Canadian coastline at the 120°00'.00W meridian to:
90° 00'.00N 120°00'.00W,
90° 00'.00N 035°00'.00W,
67° 00'.00N 035°00'.00W;

NAVAREA/METAREA XIX bound by:

From a position on the Norwegian coastline at 65°00'.00N to:
65° 00'.00N 005° 00'.00W,
75° 00'.00N 005° 00'.00W,
west to a position on the Greenland coastline;
From the border between Norway and Russia (Inland) to:
69° 47'.68N 030° 49'.16E,
69° 58'.48N 031° 06'.24E,
70° 22'.00N 031° 43'.00E,
71° 00'.00N 030° 00'.00E,
From this geographical position (71° 00'.00N . 030°00'.00E) further north
along the 030° 00'.00E meridian to:
90° 00'.00N 030° 00'.00E,
90° 00'.00N 035° 00'.00W,
south to the Greenland coastline along the 035° 00'.00W meridian;

NAVAREA/METAREA XX bound by:

From the border between Norway and Russia (Inland) to:
69° 47'.68N 030° 49'.16E,
69° 58'.48N 031° 06'.24E,
70° 22'.00N 031° 43'.00E,
71° 00'.00N 030° 00'.00E,
From this geographical position (71° 00'.00N . 030°00'.00E) further north along
the 030°00'.00E meridian to:
90° 00'.00N 030° 00'.00E,
90° 00'.00N 125° 00'.00E,
then south to the Russian Federation coastline along the 125° 00'.00E meridian;

NAVAREA/METAREA XXI bound by:

From a geographical position on the Russian Federation coastline at
the 125°00'. 00E meridian to:
90° 00'.00N 125° 00'.00E,
90° 00'.00N 168° 58'.00W,
67° 00'.00N 168° 58'.00W,
west to a geographical position on the Russian Federation coastline along
the 67° 00'.00N parallel

Arctic NAVAREA Broadcast Schedules:

NAVAREA XVII (POR) at 1130UTC and 2330UTC
NAVAREA XVIII (AOR-W) at 1100UTC and 2300UTC
NAVAREA XIX (AOR-E) at 0630UTC and 1830UTC

**SECTION 1 – Edition 08/2010
SAFETY AND GENERAL INFORMATION**

NAVAREA XX (IOR) at 0530UTC and 1730UTC
NAVAREA XXI (POR) at 0630UTC and 1830UC

Arctic METAREA Broadcast Schedules:

METAREA XVII (POR) at 0300UTC and 1500UTC
METAREA XVIII (AOR-W) at 0300UTC and 1500UTC
METAREA XIX (AOR-E) at 1100UTC and 2300UTC
METAREA XX (IOR) at 0600UTC and 1800UTC
METAREA XXI (POR) at 0600UTC and 1800UTC

Feedback concerning the reception of NAVAREA broadcasts, especially above 76°N, is encouraged and may be sent to:

NAVAREA XVII and XVIII - CANADA
Prescott MCTS Centre
Telephone: +1-613-925-4471
Facsimile: +1-613-925-4519
Email: navarea17.18@innav.gc.ca

NAVAREA XIX - NORWAY
Vardoe VTS Centre
Telephone: +47 78 98 98 98
Facsimile: +47 78 98 98 99
Email: navarea19@kystverket.no

NAVAREA XX and XXI – RUSSIAN FEDERATION
Chief of MSI Division
Telephone: +7 812 570 34 66
Facsimile: +7 812 570 34 66
Email: ibm@hydrograph.spb.su

Feedback concerning the reception of METAREA broadcasts, especially above 76°N, is encouraged and may be sent to:

METAREA XVII and XVIII - CANADA
Contact: Mr. Tom King
Telephone: +1-709-256-6612
Facsimile: +1-709-256-6627
Email: Tom.King@ec.gc.ca

METAREA XIX - NORWAY
Contact: Mr. Helge Tangen
Telephone: +47 7762 1300
Facsimile: +47 7762-1301
Email: helget@met.no

METAREA XX and XXI – RUSSIAN FEDERATION
Contact Name: Mr. Sergey Brestkin
Telephone: +7-812-352-1901
Facsimile: +7-812-352-2688
Email: gmdss@aari.ru

***807 CANADIAN COAST GUARD PUBLICATION – ADMENDMENT TO THE 2010 ANNUAL EDITION OF NOTICES TO MARINERS – NOTICE 5A - GENERAL GUIDELINES FOR MARINE PROTECTED AREAS**

Amend Notice 5A – Page A5A-1

Marine Protected Areas in Eastern Canada

The following section provides information on Marine Protected Areas that have been designated under the *Oceans Act* in eastern Canada.

**SECTION 1 – Edition 08/2010
SAFETY AND GENERAL INFORMATION**

The Gully Marine Protected Area

The Gully Marine Protected Area was designated pursuant to the *Oceans Act* on May 7th 2004. The full text of the regulations may be accessed in the *Canada Gazette Part II, Vol. 138, No. 10, 663-668*. (<http://canadagazette.gc.ca>)

To read:

1. Marine Protected Areas in Eastern Canada

The following section provides information on Marine Protected Areas that have been designated under the *Oceans Act* in Eastern Canada.

1.1 The Gully Marine Protected Area

The Gully Marine Protected Area was designated pursuant to the *Oceans Act* on May 7th 2004. The full text of the regulations may be accessed in the *Canada Gazette Part II, Vol. 138, No. 10, 663-668*. (<http://canadagazette.gc.ca>)

Amend Page A5A-4

The Musquash Estuary Marine Protected Area

The Musquash Estuary Marine Protected Area was designated pursuant to the *Oceans Act* on December 14th, 2006. The full text of the regulations may be accessed in the *Canada Gazette Part II, Vol. 140, No. 26, 2324-2343*. (<http://canadagazette.gc.ca>)

To read:

1.2 The Musquash Estuary Marine Protected Area

The Musquash Estuary Marine Protected Area was designated pursuant to the *Oceans Act* on December 14th, 2006. The full text of the regulations may be accessed in the *Canada Gazette Part II, Vol. 140, No. 26, 2324-2343*. (<http://canadagazette.gc.ca>)

Page A5A-5

Add at the end of the page before Authority: Department of Fisheries and Oceans (DFO).

2. Marine Protected Areas in the Pacific Region of Canada

The following section provides information on Marine Protected Areas that have been designated under the *Oceans Act* in Canada's Pacific Region.

2.1 Bowie Seamount Marine Protected Area

The Bowie Seamount Marine Protected Area was designated pursuant to the *Oceans Act* on April 17, 2008. The full text of the regulations may be accessed in the *Canada Gazette Part II, Vol. 142, No. 9, 1037-1055*. (<http://canadagazette.gc.ca>)

Coordinates

The Bowie Seamount (Sgaan Kinghlas) is located 180 km west of Haida Gwaii (Queen Charlotte Islands) on Canada's Pacific Coast, and is comprised of Bowie, Hodgkins and Davidson Seamounts of the Kodiak-Bowie seamount chain. The Bowie Seamount Marine Protected Area is bounded by rhumb lines connecting the following geographical coordinates. All geographic coordinates (latitude and longitude) are expressed in the North America Datum 1983 (NAD 83) geodetic reference system.

Point #	Latitude North	Longitude West
1	53°03'07.6	135°50'25.9
2	53°16'20.9	134°59'55.4
3	53°39'49.2	135°17'04.9
4	53°39'18.0	135°53'46.5
5	53°52'16.7	136°30'23.1
6	53°49'19.6	136°47'33.1
7	53°40'02.5	136°57'03.5
8	53°13'59.2	136°10'00.0

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The Bowie Seamount Marine Protected Area is shown in the attached map.

Download image - <http://notmar.gc.ca/eng/services/notmar/8s1e10.gif> or
<http://notmar.gc.ca/eng/services/notmar/8s1e10.pdf>

Management Zones

The Regulations establish the outer boundary of the MPA. Three internal management zones have been delineated, in which different activities may be permitted, provided that they do not compromise the overall conservation objective of the MPA.

- Zone 1 consists of the fragile and productive photic zone (depth where sunlight penetrates sufficiently) of the Bowie Seamount defined by the 457-metre (250 fathom) bathymetric contour. This area, which is approximately 44 km², is considered sensitive and is afforded a higher level of protection.
- Zone 2 consists of the Bowie Seamount structure, the surrounding waters, seabed and subsoil, excluding the sensitive upper portion identified in Zone 1. This covers an area of approximately 2 538 km².
- Zone 3 consists of the Hodgkins and Davidson Seamount structures, the surrounding waters, seabed and subsoil. This area covers approximately 3 549 km².

Regulatory Requirements for Vessel Passage

The regulations permit the exercise of international navigational rights in the Marine Protected Area year round. Vessels must operate in compliance with all relevant provisions of the *Canada Shipping Act* and all relevant requirements of the International Maritime Organization. Vessels in non-compliance with these requirements contravene the Marine Protected Area regulations and are also subject to penalties under the *Oceans Act*.

Vessels must report all accidents or incidents to the Canadian Coast Guard via any Marine Communications and Traffic Services Centre (MCTS) within two (2) hours of occurrence or detection.

Prohibited activities

The Bowie Seamount Marine Protected Area regulations prohibit any activity that shall disturb, damage or destroy, or remove from the Area, any living marine organism or any part of its habitat, or any part of the seabed. The regulations also prohibit any activity — including depositing, discharging or dumping any substance, or causing any substance to be deposited, discharged or dumped — that is likely to result in the disturbance, damage, destruction or removal of a living marine organism or any part of its habitat.

The regulations define exceptions to the general prohibition for the activities set out in the table below.

Exceptions
Commercial fishing that is carried out in accordance with the <i>Fisheries Act</i> and its regulations. At this time sablefish by trap gear takes place in Zone 2 only.
Recreational fishing that is carried out in accordance with the <i>Fisheries Act</i> and its regulations:
Fishing that is carried out in accordance with the <i>Aboriginal Communal Fishing Licenses Regulations</i>
Vessel travel carried out in accordance with the <i>Canada Shipping Act, 2001</i> and its regulations.
Foreign vessel travel carried out in accordance with the <i>Canada Shipping Act, 2001</i> and its regulations and foreign ship travel carried out in accordance with the <i>Coasting Trade Act</i> and its regulations;
Any movement or other activity of a ship, submarine or aircraft if the movement or other activity is carried out for the purpose of public safety, law enforcement or national security or for the exercise of Canadian sovereignty as specified in the <i>Bowie Seamount Marine Protected Area Regulations</i> .
Marine scientific research activities that are carried out or sponsored by a foreign government and in respect of which that government has received the consent of the Minister of Foreign Affairs under paragraph 3(2)(c) of the <i>Coasting Trade Act</i> , if the activities are carried out in a manner that complies with the terms and conditions of the consent;
A scientific research, monitoring, educational activities and commercial marine tourism approved by the Minister of Fisheries & Oceans (see Activity Plan section below)

MPA Activity Plans

Every person who proposes to carry out a scientific research, monitoring, educational or commercial tourism activity in the Area shall submit an activity plan to the Minister of Fisheries and Oceans for approval, not less than 60 days before the day on which the activity is proposed to begin.

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For more information on Bowie Seamount Marine Protected Area or to request an Activity Plan Application Package, please contact:

Bowie Seamount MPA Manager
 Fisheries and Oceans Canada
 Oceans, Habitat and Enhancement
 417-2nd Avenue West
 Prince Rupert, BC, V8J 1G8
BowieMPA@dfo-mpo.gc.ca
Reporting of Accidents

Every person involved in an accident that is likely to result in any disturbance, damage, destruction or removal prohibited under section 3 shall, within two hours after its occurrence, report the accident to the Canadian Coast Guard.

Endeavour Hydrothermal Vents Marine Protected Area

The Endeavour Hydrothermal Vents Marine Protected Area was designated pursuant to the *Oceans Act* on March 4, 2003. The full text of the regulations may be accessed in the *Canada Gazette Part II, Vol. 137, No. 6, 944-957*. (<http://canadagazette.gc.ca>)

Coordinates

The Endeavour area of the Juan de Fuca Ridge is a seismically active area of seafloor formation and hydrothermal venting. The Endeavour Hydrothermal Vent area is located 250 km offshore from Vancouver Island, 2250 m below the ocean's surface and is bounded by rhumb lines connecting the following geographical coordinates. All geographic coordinates (latitude and longitude) are expressed in the North America Datum 1983 (NAD 83) geodetic reference system.

Point #	Latitude North	Longitude West
1	47°54'	129°02'
2	47°54'	129°08'
3	48°01'	129°08'
4	48°01'	129°02'

The Endeavour Hydrothermal Vents Marine Protected Area is shown in the attached map.

Prohibited activities

The Endeavour Hydrothermal Vents Marine Protected Area regulations prohibit any activity that shall (or is likely to) disturb, damage or destroy, or remove from the Area any part of the seabed, including a venting structure, or any part of the subsoil, or any living marine organism or any part of its habitat.

Exceptions

Exceptions to the above prohibition exists in the event that the disturbance, damage, destruction or removal is for scientific research for the conservation, protection and understanding of the Area. This exception is subject to the submission of a research plan to the Minister of Fisheries and Oceans not less than 90 days before the start of the scientific research in the Area and requires that all licences, authorizations or consents required under the *Oceans Act*, the *Coastal Fisheries Protection Act*, the *Coasting Trade Act* or the *Fisheries Act* in respect of the scientific research have been obtained.

The regulations further describe exceptions to the general prohibition for the activities set out in the table below.

Exceptions

Any movement or other activity of ships, or submarines, as the case may be, carried out for the purpose of public safety, law enforcement, or Canadian sovereignty or national security and owned or operated by or on behalf of Her Majesty in right of Canada or by foreign military forces acting in cooperation with, or under the command or control of, the Canadian Forces.
Marine scientific research activities that are carried out or sponsored by a foreign government and in respect of which that government has received the consent of the Minister of Foreign Affairs under paragraph 3(2)(c) of the <i>Coasting Trade Act</i> , if the activities are carried out in a manner that complies with the terms and conditions of the consent.
Activities which they have a licence or authorization under the <i>Oceans Act</i> , the <i>Coastal Fisheries Protection Act</i>

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or are authorized or licensed under provision of the *Fisheries Act*.

Download image - <http://notmar.gc.ca/eng/services/notmar/8s1e1001.gif> or
<http://notmar.gc.ca/eng/services/notmar/8s1e1001.pdf>

For more information or to receive a research plan submission package contact:
Endeavour Hydrothermal Vent MPA Manager
Fisheries & Oceans Canada
1965 Island Diesel Way
Nanaimo, BC V9S 5W8
Phone: 250-754-0359
Fax: 250-754-0134
Email: ehvmpa@dfo-mpo.gc.ca

**SECTION 2 – Edition 08/2010
CHART CORRECTIONS**

**3001 - Vancouver Island / Île de Vancouver Juan de Fuca Strait to / à Queen Charlotte Sound - New Edition - 23-FEB-2001
- NAD 1927**

20-AUG-2010		LNMD. 23-OCT-2009
Delete	depth of 6 fathoms marked ED (See Chart No. 1, I10 and I1)	48°07'49.7"N 124°47'12.3"W
		<i>DFO(6202290-01)</i>

3313 - Plumper Sound - Sheet 11 - New Edition - 02-JAN-2009 - NAD 1983

20-AUG-2010		LNMD. 02-JUL-2010
Add	depth of 8 metres (See Chart No. 1, I10)	48°44'24.2"N 123°10'42.0"W
		<i>DFO(6202291-02)</i>

Add	depth of 9.5 metres (See Chart No. 1, I10)	48°44'45.0"N 123°10'10.2"W
		<i>DFO(6202291-03)</i>

3441 - Haro Strait, Boundary Pass and / et Satellite Channel - Sheet 1 - New Edition - 01-JUL-2005 - NAD 1983

20-AUG-2010		LNMD. 02-JUL-2010
Add	depth of 8 metres (See Chart No. 1, I10)	48°44'24.2"N 123°10'42.0"W
		<i>DFO(6202291-02)</i>

Add	depth of 9.5 metres (See Chart No. 1, I10)	48°44'45.0"N 123°10'10.2"W
		<i>DFO(6202291-03)</i>

3477 - Bedwell Harbour to / à Georgeson Passage - Sheet 1 - New Edition - 03-MAY-1985 - NAD 1927

20-AUG-2010		LNMD. 25-JUN-2010
Add	depth of 8 metres (See Chart No. 1, I10)	48°44'24.8"N 123°10'37.3"W
		<i>DFO(6202291-02)</i>

3477 - Bedwell Harbour to / à Georgeson Passage - Sheet 1 - New Edition - 03-MAY-1985 - NAD 1927

20-AUG-2010		LNMD. 25-JUN-2010
Delete	depth of 15.5 metres (See Chart No. 1, I10)	48°44'25.2"N 123°10'39.0"W
		<i>DFO(6202291-01)</i>

3601 - Juan de Fuca Strait to / à Vancouver Harbour - New Edition - 01-JUL-2005 - NAD 1983

06-AUG-2010		LNMD. 30-OCT-2009
Add	depth of 8.2 metres (See Chart No. 1, I10)	48°11'44.1"N 124°46'57.2"W
		<i>DFO(6202288-01)</i>

Add	depth of 2.3 metres (See Chart No. 1, I10)	48°11'12.0"N 124°44'08.9"W
		<i>DFO(6202288-02)</i>

20-AUG-2010		LNMD. 06-AUG-2010
Delete	depth of 10.9 metres marked Rep(1942) ED (See Chart No. 1, I10, I1 and I3.2)	48°07'49.7"N 124°47'12.3"W
		<i>DFO(6202290-01)</i>

**SECTION 2 – Edition 08/2010
CHART CORRECTIONS**

3602 - Approaches to / Approches à Juan de Fuca Strait - New Edition - 29-NOV-2002 - NAD 1983

06-AUG-2010		LNM/D. 18-JUN-2010
Add	depth of 8.2 metres with bottom quality of R (See Chart No. 1, I10 and J9.1)	48°11'44.1"N 124°46'57.2"W <i>DFO(6202288-01)</i>
Add	depth of 2.3 metres with bottom quality of R (See Chart No. 1, I10 and J9.1)	48°11'12.0"N 124°44'08.9"W <i>DFO(6202288-02)</i>
20-AUG-2010		LNM/D. 06-AUG-2010
Delete	depth of 10.9 metres marked Rep(1942) ED (See Chart No. 1, I10, I1 and I3.2)	48°07'49.7"N 124°47'12.3"W <i>DFO(6202290-01)</i>

3606 - Juan de Fuca Strait - New Edition - 29-NOV-2002 - NAD 1983

06-AUG-2010		LNM/D. 02-APR-2010
Add	depth of 8.2 metres with bottom quality of R (See Chart No. 1, I10 and J9.1)	48°11'44.1"N 124°46'57.2"W <i>DFO(6202288-01)</i>
Add	depth of 2.3 metres with bottom quality of R (See Chart No. 1, I10 and J9.1)	48°11'12.0"N 124°44'08.9"W <i>DFO(6202288-02)</i>
20-AUG-2010		LNM/D. 06-AUG-2010
Delete	depth of 10.9 metres marked Rep(1942) ED (See Chart No. 1, I10, I1 and I3.2)	48°07'49.7"N 124°47'12.3"W <i>DFO(6202290-01)</i>

7685 - Tuktoyaktuk Harbour and Approaches / et les approches - New Chart - 28-FEB-1986 - NAD 1927

20-AUG-2010		LNM/D. 25-APR-2003
Delete	sounding of 4.7 metres. (See Chart No. 1, I10).	69°29'12.5"N 133°03'32.7"W <i>DFO(6603567-03)</i>
Add	depth of 3.5 metres. (See Chart No. 1, I10)	69°29'12.5"N 133°03'33.9"W <i>DFO(6603567-04)</i>
Replace	sounding of 4.7 metres with a sounding of 3.5 metres. (See Chart No. 1, I10).	69°29'02.4"N 133°03'12.8"W <i>DFO(6603567-05)</i>
Replace	sounding of 4.8 metres with a sounding of 3.6 metres. (See Chart No. 1, I10).	69°28'52.1"N 133°02'53.6"W <i>DFO(6603567-06)</i>
Replace	sounding of 4.8 metres with a sounding of 3.6 metres. (See Chart No. 1, I10).	69°28'44.2"N 133°02'37.6"W <i>DFO(6603567-07)</i>
Replace	sounding of 5.3 metres with a sounding of 4.4 metres. (See Chart No. 1, I10).	69°28'20.2"N 133°01'48.3"W <i>DFO(6603567-08)</i>
Delete	sounding of 5.2 metres. (See Chart No. 1, I10).	69°28'17.1"N 133°01'43.3"W <i>DFO(6603567-09)</i>

**SECTION 2 – Edition 08/2010
CHART CORRECTIONS**

Add	depth of 4.4 metres. (See Chart No. 1, I10).	69°28'16.4"N 133°01'42.5"W <i>DFO(6603567-10)</i>
Delete	sounding of 5.2 metres. (See Chart No. 1, I10).	69°28'14.0"N 133°01'36.0"W <i>DFO(6603567-11)</i>
Add	depth of 4.5 metres. (See Chart No. 1, I10).	69°28'14.1"N 133°01'35.1"W <i>DFO(6603567-12)</i>
Replace	sounding of 5.3 metres with a sounding of 4.4 metres. (See Chart No. 1, I10).	69°28'10.8"N 133°01'29.6"W <i>DFO(6603567-13)</i>
Replace	sounding of 8.0 metres with a sounding of 6.9 metres. (See Chart No. 1, I10).	69°27'57.3"N 133°00'16.4"W <i>DFO(6603567-14)</i>
Delete	sounding of 10.9 metres. (See Chart No. 1, I10).	69°27'46.9"N 132°59'45.5"W <i>DFO(6603567-15)</i>
Add	depth of 8.7 metres. (See Chart No. 1, I10)	69°27'46.3"N 132°59'45.4"W <i>DFO(6603567-16)</i>
Replace	sounding of 7.9 metres with a sounding of 7.0 metres. (See Chart No. 1, I10).	69°27'35.7"N 132°59'14.3"W <i>DFO(6603567-17)</i>
Affix	patch	69°30'00.0"N 133°07'00.0"W
	Download Patch - http://www.chs-shc.gc.ca/patches/7685_PA_292666.pdf	 <i>DFO(6603610-01)</i>

SECTION 3 – Edition 08/2010
CORRECTIONS TO RADIO AIDS TO MARINE NAVIGATION

*811 CANADIAN COAST GUARD PUBLICATION – AMENDMENT TO THE RADIO AIDS TO MARINE NAVIGATION (PACIFIC AND WESTERN ARCTIC) PUBLICATION 2010

Page 1-4

REPLACE section 11) with:

- 11) ***Discontinuation of 121.5/243 MHz Distress Beacon Monitoring by the COSPAS-SARSAT Satellite Constellation***

COSPAS-SARSAT is the international organization that operates a series of satellites in low altitude and geostationary orbits for search and rescue. In response to recommendations from the International Maritime Organization (IMO) and the International Civil Aviation Organization (ICAO), the Council of COSPAS-SARSAT announced at its October 2000 meeting in Laval, Quebec that it will be phasing out satellite processing of distress beacons operating in the 121.5/243 MHz range and encouraging users to **adopt 406 MHz beacons by 2009** at the latest, as this is when the switch-over will be completed.

Three types of distress beacons are in use: Emergency Locator Transmitters (ELTs), used on aircraft; Emergency Positioning Indicator Radio Beacons (EPIRBs), used on vessels; and Personal Locator Beacons (PLBs), used by land-based personnel.

The impact of this change should be negligible aboard Canadian vessels as there are no 121.5 MHz marine EPIRBs that have a valid technical acceptance certificate (TAC) under the *Radiocommunication Act*. Therefore, it is illegal for anyone to sell or fit such an EPIRB in Canada or aboard a Canadian vessel. Only those COSPAS-SARSAT EPIRBs transmitting on 406 MHz are approved for use in Canada and these units will not be impacted by this change in satellite detection.

The use of 406 MHz distress beacons over the 121.5/243 MHz distress beacons will minimize the problems with false alerts being received by rescue coordination centres. Since its inception in 1982 the COSPAS-SARSAT System has provided distress alert information which has assisted in the rescue of over 18,865 persons in 5,317 distress situations.

Mariners are encouraged to fit float-free EPIRBs and **register** their COSPAS-SARSAT 406 MHz EPIRBs free-of-charge with the Canadian Beacon Registry, P.O. Box 1000 Stn Forces, Astra, ON K0K 3W0, by telephone at 1-877-406-SOS1(7671), by facsimile at 1-877-406-FAX8(3298), by e-mail CBR@sarnet.dnd.ca or on the Website at <http://canadianbeaconregistry.forces.gc.ca>.

**IMPORTANT !
DON'T FORGET TO REGISTER YOUR EPIRB
IT COULD SAVE YOUR LIFE**

Discontinuation of INMARSAT 'E' EPIRB monitoring service as of December 1, 2006

INMARSAT has discontinued their monitoring service of INMARSAT 'E' EPIRB distress alerts as of **December 1, 2006**. Mariners should check with INMARSAT for exchange of any currently held INMARSAT 'E' EPIRBs. Further, mariners should only purchase and fit COSPAS-SARSAT 406 MHz EPIRBs from now on.

Page 3-5

REPLACE section (u) with:

- (u) the date of expiration of a certificate referred to in Article VII of the *International Convention on Civil Liability for Oil Pollution Damage, 1969/1992*, the International Oil Pollution Prevention Certificate, the International Pollution Prevention Certificate for the Carriage of Noxious Liquid Substances in Bulk, the Certificate of Fitness and the Certificate of Compliance, if any issued to the ship, (The following is also requested: the date and expiration of the ISM Safety Management Certificate, the ISM document of compliance, and the International Convention on Civil Liability for Bunker Oil Pollution Damage, 2001 Certificate (known as Bunkers Convention Certificate), if any, issued to the ship.)

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CORRECTIONS TO RADIO AIDS TO MARINE NAVIGATION

Page 5-17

REPLACE the Marine Forecast Areas Northern Canada chart with:

Download image - <http://notmar.gc.ca/eng/services/notmar/8s3e10.jpg> or
<http://notmar.gc.ca/eng/services/notmar/8s3e10.pdf>

SECTION 4 – Edition 08/2010
SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

British Columbia, Volume 1, Seventeenth Edition, 2004 —

Chapter 9 — Delete paragraphs 257, 258 and 259

Replace by: 257 **Beacon. — Buoys.** — A narrow channel lies close off the NE shore of the Esowista Peninsula between Tofino Breakwater light and Usatzes Point. Drying banks are on the north side and drying rocks on the south side, north of Usatzes Point. It has a least depth of 0.5 m SSW of Strawberry Island.

 258 The west end of the channel is entered between Tofino Breakwater light and port hand buoy “Y29”.

 259 A private starboard hand daybeacon marks the entrance to a boat basin in the middle of the channel on the south side.

(P2010-23.01)

SECTION 5 – Edition 08/2010
LIST OF LIGHTS, BUOYS AND FOG SIGNALS CORRECTIONS

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics	Focal Height in m. above water	Nomi- nal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
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PACIFIC

651.5 G5740.5	Harbour Rock	Stewart Narrows. 53 23 16.3 129 16 38.5	FI G	4s	2.9	4	White square skeleton tower.	Year round.
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Chart:3945
Edn 08/10(P10-070)

**CANADIAN COAST GUARD
MARINE INFORMATION REPORT AND SUGGESTION SHEET**

Date:

Name of Ship or Sender:.....

Address of Sender:

Street #

Street Name

Town / City:..... Prov / State:..... Postal Code / Zip Code:

Tel / Fax / E-mail address of sender (if appropriate):

Observation Date:..... Time (UTC):

Geographical Position:.....

Coordinate Position: Lat:..... Long:.....

Position Method: DGPS GPS with WAAS GPS Radar Other

Horizontal Datum Used: WGS 84 NAD 27 Other

Estimated Position Accuracy:.....

Chart #:..... Datum: NAD 27 NAD 83

Chart Edition:..... Last Correction applied:

Publications affected: (Quote Volume and page):.....

*Full details (Attach additional sheets as necessary).....

Mariners are requested to notify the responsible authorities when new or suspected dangers to navigation are discovered, changes are observed in aids to navigation, or corrections to publications are seen to be necessary.

In the case of new or suspected dangers to navigation, it is important that all details be given in order to aid with future investigations. Items of interest include heights, depths, physical description, type of bottom and equipment method used to position the item. It is helpful to mark details on chart, which will be promptly replaced by the Canadian Hydrographic Service.

Reports should be made to the nearest Marine Communications and Traffic Services Centre (MCTS) and should be confirmed in writing to:

Director, Navigation Systems
Canadian Coast Guard
Department of Fisheries and Oceans
Ottawa, Ontario, K1A 0E6

In the case of information concerning aids to navigation or the List of Lights, Buoys and Fog Signals.

atn-aln@dfo-mpo.gc.ca

OR

Dominion Hydrographer
Canadian Hydrographic Service
Department of Fisheries and Oceans
Ottawa, Ontario, K1A 0E6

In the case of new or suspected dangers to navigation or where corrections to "Sailing Directions" appear to be necessary.

CHSINFO@DFO-MPO.GC.CA

Or general questions on Coast Guard programs or services please send an e-mail message to:

info@dfo-mpo.gc.ca

(Please include your postal code and e-mail address)