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Canada Canada

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AUGUST 28, 1998

# WESTERN EDITION OF NOTICES TO MARINERS

Published monthly by the

CANADIAN COAST GUARD

## NOTICES

**1500 to 1551**

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Marine Navigation Services  
Directorate  
Marine Aids

**RECYCLED PAPER**

Internet: <http://www.notmar.com>

## **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.

The publication of Notices to Mariners and chart revisions are being delayed by the volume of changes that are taking place.

Mariners are advised that all relevant Written Notices to Shipping should be kept until superseded by Notices to Mariners or through revised charts issued by the Canadian Hydrographic Service.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

#### ***Newfoundland***

St. John's MCTS Centre  
Phone: (709) 772-2083  
Fax: (709) 772-6285

#### ***Maritimes***

Maritime Regional Operations Centre  
Toll Free in Maritimes 1-800-565-1633  
Phone: (902) 426-6030  
Fax: (902) 426-6334  
<http://www.mar.dfo.mpo.gc.ca/cg/ops/roc.htm>  
Website E-Mail: ROCWeb@mar.dfo-mpo.gc.ca

#### ***Laurentienne***

Québec MCTS Centre  
Phone: (418) 648-5410  
Fax: (418) 648-7244  
E-Mail: XLAUSCTM@dfo-mpo.gc.ca

#### ***Central & Arctic***

Sarnia MCTS Centre  
Toll Free in Ontario 1-800-265-0237  
Phone: (519) 337-6360  
Fax: (519) 337-2498

#### ***Pacific***

Vancouver Regional Marine Information Centre  
Phone: (604) 666-6011  
Fax: (604) 666-8453

## 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.

**Original Canadian Information** - A star (\*) adjacent to the Notice number indicates that this notice is based on original Canadian information.

**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) after the Notice number. Nautical charts and publications are not hand amended for Temporary (T) and Preliminary (P) Notices to Mariners. Listings of Charts Affected by Temporary and Preliminary Notices to Mariners are revised and promulgated quarterly, in Section I. Reference should be made to the latest published listing and to the monthly editions of Notices to Mariners published subsequently.

Please note that, in addition to the temporary and preliminary changes normally advertised as (T) and (P) Notices, there are a significant number of 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 edition of Notices to Mariners** - *Notices to Mariners* are issued free of charge on a monthly basis. Mariners now have a choice between specific regional issue(s) they wish to receive. Requests to be placed on or removed from the mailing list should be made by using the form inserted on page x of each monthly edition. Notification of changes to the mailing addresses, regional issues and/or number of copies required should also be transmitted by means of this form.

**Canadian Nautical Charts & Publications** - A source list of *Canadian Nautical Charts & publications* is published in Notice No. 14 of the current *Annual Edition of Notices to Mariners*. The source supply and the prices effective at the time of printing are listed. This list is periodically updated in the monthly edition of *Notices to Mariners*.

NOTE: *Cette publication est aussi disponible en français.*

## **DGPS INITIAL OPERATIONAL SERVICE**

The Canadian Coast Guard (CCG) announces that the Differential Global Positioning Service (DGPS) Initial Operational Service (IOS) is available for positioning and navigation.

IOS means the service will provide a DGPS broadcast using the type 9 RTCM message for pseudorange corrections at a data transmission rate of 200 baud. Refer to Radio Aids to Marine Navigation (RAMN) for estimated advertised coverage for each differential station.

Although the service is IOS, users may experience service interruptions without advance notice. Further, CCG advises that IOS DGPS broadcasts should not be used under any circumstances where a sudden system failure or inaccuracy could constitute a safety hazard. Following a one year verification period, the DGPS service will be declared as being a Full Operational Service (FOS).

Users are also advised that differential corrections are based on the NAD 83 datum position of the reference station antenna and positions obtained using DGPS should be referenced to this coordinate system only. DGPS receivers must be set to the WGS 84 datum in order to obtain optimum positioning accuracy.

<b>Table of Stage 1 DGPS Reference Stations</b>					
<b>Station Name</b>	<b>Id Nos of Ref. Stations</b>	<b>DGPS Station ID</b>	<b>Geogr. Pos. Latitude Longitude</b>	<b>Frequency [khz]</b>	<b>Bits/sec.</b>
Alert Bay BC	300,301	909	50 35 N 126 55 W	309	200
Amphitrite Pt BC	302,303	908	48 55 N 125 32 W	315	200
Cardinal ON	308,309	919	44 47 N 75 25 W	306	200
St. Jean Richelieu QUÉ	312,313	929	45 19 N 73 18 W	296	200
Lauzon QUÉ	316,317	927	46 48 N 71 09 W	309	200
Partridge Island NB	326,327	939	45 14 N 66 03 W	295	200
Pt. Escuminac NB	332,333	936	47 04 N 64 47 W	319	200
Fox Island NS	336,337	934	45 19 N 61 04 W	307	200
Cape Race NFLD	338,339	940	46 39 N 53 04 W	315	200
Cape Ray NFLD	340,341	942	47 34 N 59 09 W	290	200

## **DGPS USER ALERT**

Currently, ten Phase 1 DGPS stations are providing Initial Operational Service (IOS) which was declared by Regional Notices to Mariners issued in September 1996. Another eight DGPS stations will be installed in 1997. Extensive validation of operational performance is being conducted throughout 1997. Full Operational Service (FOS) will follow after successful validation.

The Canadian Coast Guard has recently received reports of DGPS receivers apparently ignoring the broadcast alarm which should signal the immediate discontinuation of a particular satellite correction. Reports indicate that some user equipment does not properly recognize this "do-not-use" correction flag and as a result erroneously processes it as a correction. This can result in position errors as large as 15 kilometers while the receiver is in DGPS mode. DGPS users are advised that they should contact the manufacturer of their equipment immediately to determine if they require a receiver upgrade.

Apart from this, no major difficulties with DGPS implementation have been experienced to date nor are any expected in the future.

## **DISCREPANCY REPORT FOR DGPS USERS.**

The Canadian Coast Guard is currently implementing the Differential Global Positioning System in Canada. In August 1996, 10 DGPS stations were announced as providing an Initial Operational Service (IOS). Eight (8) additional DGPS stations will be implemented in the fall of 1997.

Following a service validation period, it is expected that the DGPS service will be announced as providing a Full Operational Service (FOS) in December 1997. The fully operational DGPS service is expected to meet the advertised Levels of Service standards and all service guarantees will be provided with FOS.

Throughout the service validation period, the Coast Guard will be conducting numerous tests of the differential service. To assist the Coast Guard in this validation testing, mariners are requested to complete the attached anomaly report. Please take note of any DGPS service anomalies you experience and forward the completed form to the Director Marine Aids, Fisheries and Oceans Canada, 200 Kent Street, Station 5130, Ottawa, ON, K1A 0E6.

## DGPS station anomaly report / Rapport d'anomalie des stations DGPS

With the purpose of constantly evaluating the quality of the DGPS service offered, the Canadian Coast Guard is providing the mariner with the following anomaly report. This report will allow us to get well-supported information concerning the anomaly and thus, will facilitate the identification of the origin of the problem. Please fill accordingly each section of this report and forward it by the suggested ways. You will find a legend at the end of this document.

Avec le souci d'évaluer constamment la qualité du service DGPS offert, la Garde côtière met à la disposition du navigateur le présent rapport d'anomalie. Ce rapport servira à bien documenter l'anomalie et, de ce fait, facilitera l'identification ou la recherche de la source du problème. Nous vous prions de bien remplir chaque section de ce rapport et de l'acheminer de la façon suggérée. Vous trouverez une légende à la fin de ce document.

### User informations / Renseignements sur l'usager

Vessel name / Nom du navire: \_\_\_\_\_ Destination: \_\_\_\_\_  
Vessel position at the beginning of the anomaly /  
Position du navire au début de l'anomalie :  
Vessel position at the end of the anomaly /  
Position du navire à la fin de l'anomalie : \_\_\_\_\_

### Anomaly report / Rapport d'anomalie

Date and time of the anomaly / Date et heure de l'anomalie: \_\_\_\_\_ Duration / Durée: \_\_\_\_\_  
Number of satellites tracked on GPS receiver / Nombre de satellites reçu par le récepteur:  
DGPS site using / Station DGPS utilisée: Freq.: \_\_\_\_\_ kHz SS: \_\_\_\_\_ dB SNR: \_\_\_\_\_ dB  
DOP Geometry / Géométrie DOP :  
User receiver operates correctly with other DGPS sites? /  
Votre équipement DGPS fonctionne-t-il normalement à l'utilisation d'autres stations DGPS?: Yes/ Oui  
\_\_\_\_ No / Non \_\_\_\_\_  
Comments / Commentaires: \_\_\_\_\_

Point of contact / Personne-ressource: Name/ Nom: \_\_\_\_\_  
Phone / Téléphone : \_\_\_\_\_

### Weather conditions / Conditions météo

Winds / Vents : Direction: \_\_\_\_\_ Speed / Vitesse: \_\_\_\_\_ KTS  
Temp. °C: \_\_\_\_\_ VIS: \_\_\_\_\_ N.M.  
Sea State / État de la mer :  
Bearing and range to electrical storm /  
Direction et distance de l'orage :  
Time of the storm / Heure de l'orage: \_\_\_\_\_ UTC

**Essential information on user equipment to fill / Renseignements indispensables sur  
l'équipement à remplir:**

### User equipment informations / Renseignements sur l'équipement

GPS receiver / Récepteur GPS: Make / Fabriquant: \_\_\_\_\_ Model: \_\_\_\_\_  
DGPS beacon receiver / Démodulateur DGPS: Make / Fabriquant: \_\_\_\_\_ Model: \_\_\_\_\_  
Gyro interface with GPS / Gyro intégré avec le GPS? Yes / Oui: \_\_\_\_\_ No / Non :  
\_\_\_\_\_ DGPS interfaced with an ECDIS / DGPS intégré dans un SVCEI? Yes / Oui: \_\_\_\_\_ No / Non :  
\_\_\_\_\_

If yes, please fill below / Si oui, S.V.P. compléter ci-dessous:

ECDIS / SVCEI: Make / Fabriquant: \_\_\_\_\_ Model: \_\_\_\_\_  
Radar image interfaced / Image radar intégrée?: Yes / Oui: \_\_\_\_\_ No / Non: \_\_\_\_\_  
Gyro interfaced with ECDIS / Gyro intégré avec SVCEI? Yes / Oui: \_\_\_\_\_ No / Non: \_\_\_\_\_  
Permanent installation or in evaluation / Installation permanente ou en évaluation: \_\_\_\_\_

**This report can be sent the following ways / Ce rapport peut être acheminé selon les façons suivantes:**

- 1) Fax / Par télécopieur : 613-998-8428 attention AWAD.
- 2) Mail / Par la poste: Director Marine Aids  
Fisheries and Oceans Canada  
200 Kent Street, Station 5130  
Ottawa, ON  
K1A 0E6.

Canada

**Legend/  
Légende**

<b>Position</b>	:	Position can be provided by latitude, longitude, bearing and distance, location of a buoy, etc. La position peut être donnée en latitude, longitude, relèvement et distance, emplacement de bouée, etc.
<b>KTS</b>	:	Wind speed in knots / Vitesse du vent en noeuds.
<b>N.M.</b>	:	Visibility in Nautical Miles / Visibilité en milles nautiques.
<b>Freq. kHz</b>	:	Frequency in kilohertz / Fréquence en kilohertz .
<b>SS</b>	:	Signal strength in decibel / Force de signal en décibel.
<b>SNR</b>	:	Signal to noise ratio in decibel / Rapport signal-bruit en décibel .
<b>DOP (dilution of precision)</b>	:	Measure of the geometrical «strength » of the GPS satellite configuration. The DOP is measured on a scale of 1 to 10 / Mesure de la « force » géométrique de la configuration satellite. Le DOP est mesuré sur une échelle de 1 à 10
<b>SVCEI / ECDIS</b>	:	Electronic Chart Display and Information System / Système de Visualisation de Cartes Electroniques et d'Information .

## **IMPORTANT NOTICE TO USERS**

### **The Canadian Coast Guard Marine Aids Modernization Program**

- The Canadian Coast Guard is initiating an aids to navigation modernization program which takes advantage of modern technology and will result in a more equitable, safe, cost-effective and environmentally friendly service across Canada. Low maintenance buoys, solar power, the elimination of diesel power and the application of national provision and design standards, will be used to realize these objectives.
- In consultation with local users, aids to navigation which are redundant, exceed the national standards or should not be publicly funded, will be downsized, privatized or discontinued.
- Regional plans as well as detailed Notices to Shipping and Notices to Mariners will be issued and distributed in the usual manner in advance of all changes to aids to navigation. All users are encouraged to participate in local consultations and to monitor these Notices. It will be every user's responsibility to adapt to the changes and to take the appropriate measures.

#### **1. Redundant Aids to Navigation**

Many conventional aids to navigation were established for commercial mariners who now use radar. As a result these users no longer require as many landfall shore lights, large lighted buoys and fog signals and support their discontinuance.

However, before these commercially redundant marine aids are removed, the Coast Guard is assessing, where required, the local needs of small craft operators and redesigning the old commercial aids to meet these needs within national provision policies and design standards.

Coast Guard policy does not provide for the retention of fog horns for pleasure craft, due to the high cost to provide such a service across Canada. However, where practical and where there is local support, the existing redundant fog horns are being transferred to local authorities at no cost.

The conversion of lightstations to solar power allows major economic and environmental benefits by allowing removal of fuel tanks and diesel generators. Although this eliminates the need for many structures, the Coast Guard will protect all heritage lightstations through continued operation or transfer to provincial, municipal or other authorities for local use.

#### **2. Aids to Navigation Standards**

In consultation with local users, all aids to navigation systems across Canada are under review. National system design standards will be used to assess these systems. Systems that do not meet these standards will be upgraded; those systems that exceed them will be downsized.

Adjustments in some channels will result in an increase or a decrease in the number of buoys and/or the conversion of some lighted buoys to unlighted buoys displaying reflective material.

#### **3. Private Aids to Navigation**

Although Coast Guard policy does not provide for the establishment of aids to navigation in inadequately charted waters, or where the traffic volume does not justify the cost of the system, some have been established in the past. These aids to navigation will be transferred to local authorities at no cost, with Coast Guard retaining design and regulatory authority under the *Private Buoy Regulations*.

## **NEW INITIATIVES**

The Canadian Coast Guard is also introducing a new differential correction service to augment the satellite-based Global Positioning System (GPS), with 18 transmitting stations fully operational in 1998.

This Differential Global Positioning System (DGPS), will improve the accuracy and integrity of GPS and will enable mariners who are equipped with the appropriate receivers to identify their precise position in most major southern Canadian waters, including the Great Lakes and the St. Lawrence River.

The use of DGPS in conjunction with Electronic Chart Display and Information Systems (ECDIS), will greatly improve navigation accuracy. The expanding use of this new technology is expected to increase marine safety and thus provide greater environmental protection to Canadian waters. It is also believed that implementation of DGPS will allow further adjustment to conventional aids in the future.

All mariners and shipowners are encouraged to equip their vessels with GPS receivers which have the capability to receive the Differential signals, particularly where there is frequent risk of reduced visibility.

The Canadian Coast Guard believes that the availability of GPS, particularly when augmented by the Differential service, will make Loran C obsolete. Consultations are underway to assess the impact of discontinuing Loran C in Canada.

## CENTRAL & ARCTIC REGION

The Canadian Coast Guard is planning to further modernize its marine aids to navigation service. Changes will include adjusting all service levels to national standards between 1997 and the year 2000 and reducing some conventional aids services based on the availability of the Global Positioning System, Differential Global Positioning System (DGPS) and the Electronic Chart Display Information System (ECDIS). The new electronic systems will supplement the remaining conventional aids system, permitting continued maintenance of a safe service at lower cost.

**Implementation of the following changes will begin within Coast Guard Central and Arctic region on April 1, 1997.**

<b>MEASURES</b>
1) Upgrading DGPS sites at Cardinal and Wiarton to Initial Operating Service to provide, with the United States Coast Guard, to provide complete coverage of the Great Lakes/St. Lawrence Seaway by December 1997.
2) Removal or divestiture of 700 floating and fixed aids to navigation in the Athabasca River System.
3) Removal of approximately 20 floating aids in the Western Arctic in Simpson Strait, Cambridge Bay, Gjoa Haven and Spence Bay.
4) Privatization of 30 buoys in the Napanee River and approximately 120 fixed and floating aids to navigation in Northern Ontario due to uncharted or inadequately charted waters .
5) Removal or divestiture of approximately 30 reference or wharf-lights in conjunction with Small Craft Harbours, or Ports and Harbours Canada initiatives.
6) Conversion of approximately 20 lighted buoys to unlighted buoys in pleasure craft channels.
7) Removal of 50 floating aids to navigation in commercial channels.
8) Divestiture of 1 light house and associated property.
9) Removal or transfer of 14 fog horns on Lake Superior.
10) Removal or downsizing of 31 large lighted floating aids to navigation on the Great Lakes.

Over the next year, more detailed information concerning each of these proposed changes will be provided in each region or geographic area by Notices to Shipping and Notices to Mariners, allowing users time to comment prior to finalizing planned changes. Further Notices to Shipping and Notices to Mariners will also be issued at the time of all changes.

Mariners and representatives of user groups wishing to provide comments or recommendations on this or any subsequent notice may write to:

Superintendent Marine Aids Program  
Central and Arctic Region  
201 Front Street North, Suite 703  
Sarnia, Ontario, N7T 8B1  
Telephone (519)383-1816  
Facsimile (519)383-1995

## MONTHLY EDITION OF NOTICES TO MARINERS

### MAILING LIST CHANGES

Director General,  
Marine Navigation Services Directorate,  
Canadian Coast Guard,  
Department of Fisheries and Oceans,  
Ottawa, Ontario,  
K1A 0E6

Telephone - (613) 990-3037  
Facsimile - (613) 998-8428

Please indicate which edition you would like to receive.

**EASTERN EDITION** (will be comprised of Arctic, Newfoundland, Maritimes, Gulf & River St. Lawrence and Central areas) \_\_\_\_\_

**WESTERN EDITION**(will be comprised of Arctic and Pacific areas) \_\_\_\_\_

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**\*1546 CANADIAN HYDROGRAPHIC SERVICE Chart.**

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
<b>1. New chart.</b>					
	<u>Northwest Territories/Territoires du Nord-Ouest</u>				
7784 Victoria Strait 1:150 000 July 3/98 4 \$20.00					
Limit(s): 68°42'30" N 102°09'54".13 W 69°41'05" N 102°09'54".13 W 69°41'05" N 98°08'00" W 68°42'30" N 98°08'00" W					
(AMA8035-10-35)			(DFO-H98-058)		

**\*1548 CANADIAN HYDROGRAPHIC SERVICE Electronic Navigation Charts.**

**Notes:** (1) The following ENC products are only available from:

Nautical Data International Inc.

P.O. Box 127, Station C

St. John's, Newfoundland

A1C 5H5

Telephone: 1-800-563-0634 or 1-709-576-0634

Faxsimile: 709-576-0636

(2) For licencing information and rates please contact the distributor, Nautical Data International Inc. (NDI) at the above-mentioned address.

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
<b>1. New Charts.</b>					
	<u>British Columbia/Colombie-Britannique</u>				
70260 Draney Narrows ----- June 20/97 See Note (2)					
NOTE: This ENC is derived from CHS Chart 3931.					
70262 Okisollo Channel ----- May 30/97 See Note (2)					
NOTE: This ENC is derived from CHS Chart 3537.					
<u>Hudson Bay/Baie d'Hudson</u>					
73227 Churchill Harbour ----- April 24/98 See Note (2)					
NOTE: This ENC is derived from CHS Chart 5640.					
73228 Rankin Inlet ----- Dec. 12/97 See Note (2)					

NOTE: This ENC is derived from CHS  
Chart 5628.

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
<b>2. New Edition.</b>					
	<u>British Columbia/Colombie-Britannique</u>				
70128      Fraser River/Fleuve Fraser - Tilbury Island to/à Douglas Island					
		-----	Dec. 26/97		See Note (2)
NOTE: This ENC is derived from CHS Chart 3490.					
(AMA8035-10-35)					(DFO-H98-059)

**\*1500 CANADIAN HYDROGRAPHIC SERVICE - Cumulative chart correction list.**

The accompanying correction list is a cumulative list of charts affected by Notices to Mariners from 29-MAY-98 to 28-AUGUST-98

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1202	31(1332/98)
1209	31(1348/98)
1230	25(1138/98)
1233	35(1538/98), 34(1517/98), 23(1102/98)
1310	34(1512/98), 31(1335/98)
1312	34(1521/98, 1516/98), 23(1104/98)
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1412	32(1504/98)
1413	26(1164/98), 22(960/98)
1437	25(1134/98)
1439	25(1124/98)
L/C 2000	34(1523/98), 26(1162/98 NEW EDITION)
2017	29(1320/98)
2018	29(1320/98)
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2054	29(1325/98)
L/C 2058	29(1325/98)
2067	25(1128/98)
2069	25(1133/98)
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L/C 2100	31(1342/98)
L/C 2110	31(1351/98 NEW EDITION)
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 4509 29(1329/98)  
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 4616 34(1531/98), 22(975/98 REPRINT)  
 4619 34(1527/98), 29(1328/98)  
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 5134 31(1344/98), 25(1131/98)  
 5138 31(1351/98 NEW EDITION), 25(1131/98)  
 5340 32(1503/98)  
 5397 28(1310/98), 25(1127/98)  
 5398 28(1310/98), 24(1121/98)  
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L/C 8006	34(1526/98), 27(1307/98)
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**\*1501 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** 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** 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 print 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 accompanying list is a listing of the dates of current chart editions up to monthly edition 08 of 1998(**The asterisk indicates changes since Monthly edition 3, 1998**) . Please refer to the Monthly Notices to Mariners for detail.

Chart Number	Cat	Edition Date	Date Reprint	1361	NC	28-MAY-76	01-MAR-96
1	NE	05-JAN-96		1400	NE	26-AUG-88	
1202	NE	13-NOV-81	20-MAY-94	1409	NE	27-JUN-97	
1203	NE	04-JAN-85	10-FEB-95	1410	NE	04-OCT-96	
1209	NE	14-DEC-84	02-AUG-96	1411	NE	02-AUG-96	
1220	NE	28-FEB-97		1412	NE	13-JAN-84	05-JUL-96
L/C 1221	NE	27-DEC-91		1413	NE	21-AUG-87	05-JUL-96
1223	NE	03-OCT-97		1414	NE	01-JUN-84	24-FEB-95
1226	NC	27-MAY-83	03-MAY-91	1434	NC	01-MAR-96	
1229	NE	31-DEC-76	15-DEC-95	1435	NC	15-DEC-95	
1230	NE	29-FEB-80	10-FEB-89	1436	NC	15-JAN-93	03-JAN-97
1233	NE	18-MAY-84	03-JAN-97	1437	NC	19-MAR-93	30-MAY-97
L/C 1234	NE	02-JUL-93	20-OCT-95	1438	NE	06-OCT-95	
L/C 1235	NE	25-APR-97		1439	NE	22-FEB-91	07-FEB-97
L/C 1236	NE	01-MAR-96		1509	NC	18-MAY-90	27-JUN-97
1260	NC	04-JAN-91		1510	NE	23-JAN-98	
1310	NC	11-MAR-94	03-MAY-96	1511	NE	03-APR-81	23-APR-93
1312	NC	05-APR-96		1512	NE	03-AUG-84	09-OCT-92
1313	NE	27-JUN-97		1513	NE	07-JUN-96	
1314	NC	18-OCT-85	01-MAR-96	1550	NE	05-JAN-96	
1315	NE	05-JUL-96		1551	NE	27-JUN-86	
1316	NE	07-FEB-97		1552	NC	14-SEP-79	28-MAY-93
1317	NE	07-JUN-96		1553	NC	15-FEB-80	21-APR-95
1338	NE	05-APR-96		1554	NE	16-SEP-88	15-AUG-97
1339	NE	19-AUG-83	03-JAN-97	1555	NC	12-OCT-79	
1350	NC	06-JUL-84	25-MAR-94	* L/C 2000	NE	10-APR-98	
1351	NC	21-SEP-84	11-AUG-95		NE	03-JUL-87	16-FEB-90
				2006	NE	10-SEP-82	09-SEP-94
				2007	NE		

2011	NC	08-JUL-88	2018	NC	22-JUN-90	
2017	NC	13-JUL-90	2021	NE	25-JUN-93	
			2022	NE	02-AUG-96	
			2023	NE	01-MAR-85	24-MAR-95
			2024	NE	29-MAR-85	16-DEC-94
			2025	NE	01-MAR-85	28-MAY-93
			2026	NE	05-APR-85	15-DEC-95
			2028	NE	20-MAR-87	15-FEB-91
			2029	NE	20-MAR-87	08-MAY-92
			2042	NE	07-OCT-94	
			2043	NC	29-NOV-68	26-MAR-82
			2044	NC	28-FEB-97	
			2047	NC	07-APR-95	
			2048	NC	11-OCT-91	
			2049	NC	10-MAY-85	
			2050	NC	10-MAY-85	
			2053	NC	10-MAY-85	
			2054	NC	10-MAY-85	
			2055	NC	05-JUL-91	
			L/C 2058	NE	16-JUN-89	
			L/C 2060	NE	28-JUN-85	01-JUL-94
			2061	NE	18-MAR-77	13-JAN-89
			L/C 2064	NE	10-FEB-89	05-MAY-95
			2067	NE	01-NOV-85	15-FEB-91
			2069	NE	04-MAR-83	13-FEB-98
			2070	NE	29-APR-83	
			L/C 2077	NE	25-AUG-95	
			2085	NE	22-JUN-90	08-APR-94
			2086	NC	09-JUN-89	03-APR-92
			L/C 2100	NE	15-MAY-87	02-APR-93
			* L/C 2110	NE	29-MAY-98	
			L/C 2120	NE	27-MAR-87	06-MAR-92
			L/C 2121	NC	18-DEC-87	
			L/C 2122	NE	05-JUL-91	05-APR-96
			L/C 2123	NE	12-MAR-93	04-APR-97
			2140	NC	16-SEP-88	
			2165	NC	08-MAR-91	
			2181	NE	10-NOV-89	
			L/C 2200	NE	01-MAY-87	17-APR-92
			L/C 2201	NE	21-SEP-84	25-FEB-94
			2202	NE	04-APR-86	10-MAR-95
			2203	NE	07-OCT-88	13-NOV-92
			2204	NE	06-MAY-83	12-FEB-93
			2205	NE	18-DEC-87	06-MAR-92
			2206	NC	27-JUN-97	
			2212	NC	24-FEB-95	
			2213	NC	24-FEB-95	
			2214	NC	07-OCT-94	
			2215	NC	12-AUG-94	
			2218	NC	13-APR-84	
			2221	NE	07-JUN-96	
			2222	NC	13-APR-84	
			2223	NC	13-APR-84	
			2225	NE	08-MAR-91	11-JUL-97
			2226	NE	22-NOV-91	
			L/C 2228	NC	16-FEB-90	
			2235	NE	06-FEB-87	30-DEC-94
			2239	NE	08-MAR-85	01-MAR-96
			L/C 2243	NE	30-AUG-85	08-APR-94

L/C 2244	NE	24-JUL-87	16-JUN-95	3410	NC	24-MAR-95	
L/C 2245	NE	06-JUN-86	05-APR-96	3411	NC	24-MAR-95	
2250	NC	09-MAY-86		3415	NE	13-FEB-87	08-APR-94
2251	NC	11-APR-86	26-JUN-92	3419	NC	02-JUL-93	
2257	NE	02-NOV-84	07-JUN-96	3424	NC	24-JUL-87	02-APR-93
2258	NE	16-JUN-89	05-APR-96	3440	NE	11-MAR-83	15-OCT-93
2259	NE	15-JUN-62	02-JUL-93	3441	NE	12-AUG-88	06-DEC-96
2260	NE	13-JUN-86	05-APR-91	3442	NE	03-JUN-88	06-DEC-96
2261	NE	13-JUN-86	21-APR-95	3443	NE	30-JAN-98	
2266	NC	22-JUN-84		3457	NE	29-DEC-89	01-MAY-98
2267	NC	22-JUN-84		3458	NE	10-MAR-95	
2268	NE	31-MAR-89	06-MAY-94	3459	NE	24-OCT-97	
2273	NC	13-OCT-55	22-AUG-75	L/C 3461	NC	06-JAN-84	02-DEC-94
2274	NE	08-JUN-90		L/C 3462	NC	13-JUL-84	27-AUG-93
L/C 2282	NE	07-JUN-96		L/C 3463	NE	03-OCT-97	
L/C 2284	NE	27-OCT-89	07-JUN-96	3473	NE	13-FEB-87	04-DEC-92
2286	NE	21-JAN-83	25-AUG-95	3475	NE	27-MAY-88	02-JUL-93
2289	NE	16-OCT-87	05-JUN-92	3476	NC	31-AUG-84	22-APR-94
2291	NE	12-JUL-81	15-APR-88	3477	NE	03-MAY-85	08-SEP-89
2292	NE	28-APR-89	05-APR-96	3478	NE	24-FEB-95	
2293	NE	11-JUN-65	12-DEC-80	3481	NE	05-DEC-86	17-DEC-93
2294	NE	23-JUN-89	24-JAN-97	3488	NC	21-OCT-94	
2297	NE	20-JAN-60	19-SEP-97	3489	NC	21-OCT-94	
2298	NE	02-JUL-58	13-FEB-81	3490	NE	25-JUL-97	
2299	NE	30-SEP-83	30-JUN-95	3491	NE	05-JAN-96	
* L/C 2300	NC	24-APR-98		3492	NC	27-JUN-97	
L/C 2301	NE	22-FEB-91		3493	NE	01-JUL-94	
L/C 2302	NE	02-AUG-85		3494	NE	21-FEB-92	
2303	NE	18-MAY-55	29-JUN-90	3495	NE	21-FEB-92	
2304	NE	31-MAY-57	01-FEB-80	L/C 3513	NC	30-NOV-84	19-FEB-93
2305	NE	17-DEC-56	08-FEB-80	3514	NE	02-AUG-96	
2306	NE	03-MAY-57	09-MAY-75	3515	NC	18-JAN-91	03-JUN-94
2307	NE	31-AUG-56	11-MAR-77	3526	NE	24-FEB-95	
2308	NE	19-JUL-46	21-APR-78	3527	NE	01-JAN-88	02-APR-93
L/C 2309	NE	08-JUL-88		3534	NE	07-MAY-93	
2310	NE	03-JUN-46	01-FEB-80	3535	NE	16-AUG-85	16-APR-93
2311	NE	08-JAN-58	12-APR-91	3536	NC	21-APR-78	16-APR-93
2312	NE	13-NOV-87	08-APR-94	3537	NC	27-SEP-85	22-JUN-90
2313	NE	21-JUN-57	28-OCT-77	3538	NE	27-NOV-92	02-AUG-96
2314	NE	11-JUL-86		3539	NE	04-AUG-89	25-APR-97
2315	NE	22-APR-88		3540	NE	22-MAY-92	
2318	NE	03-DEC-82		3541	NE	29-JUL-94	
2400	NE	29-JUN-90		3542	NE	01-JUL-94	
L/C 3000	NE	20-JAN-89	22-APR-94	3543	NE	27-NOV-92	30-MAY-97
L/C 3001	NE	07-OCT-94		3544	NE	25-SEP-87	05-JUN-98
L/C 3002	NE	16-DEC-94		3545	NC	28-APR-89	12-AUG-94
3050	NE	03-MAY-96		3546	NC	28-APR-89	11-JUL-97
3052	NE	07-OCT-94		3547	NC	28-APR-89	05-APR-96
3053	NC	11-APR-86	02-FEB-90	3548	NE	26-SEP-97	
3055	NC	21-JUN-91		3549	NC	03-DEC-93	05-APR-96
3056	NC	21-JUN-91		3550	NC	03-DEC-93	02-JAN-98
3057	NC	21-JUN-91		3552	NC	02-JAN-87	02-APR-93
3058	NC	21-JUN-91		3555	NE	27-JUN-86	09-APR-93
3061	NC	29-MAY-81	21-JUN-85	3559	NC	15-JUN-79	02-FEB-90
3062	NC	24-MAY-85		3564	NC	04-DEC-87	08-SEP-95
3080	NE	03-APR-92		3598	NE	14-AUG-87	11-OCT-91
3311	NE	31-DEC-93		3601	NC	26-AUG-94	
3312	NC	31-JAN-86	05-APR-91	L/C 3602	NE	24-MAY-85	12-AUG-94
3313	NC	28-JUL-95		L/C 3603	NE	23-OCT-81	01-NOV-91

L/C 3604	NE	06-NOV-87	13-JUN-97	3785	NE	04-OCT-91	12-JUN-98
* L/C 3605	NE	06-MAR-98		3786	NC	05-JUL-46	12-MAR-93
L/C 3606	NE	27-JUL-84	03-SEP-93	3787	NE	29-JUL-77	04-APR-97
3623	NE	26-AUG-77	06-JAN-89	3794	NE	07-FEB-75	17-MAR-89
3624	NE	19-AUG-88	22-APR-94	3795	NE	01-MAY-64	09-JUL-93
3625	NC	25-OCT-68	10-MAR-89	L/C 3802	NE	24-NOV-89	
3646	NE	30-JUN-95		3807	NC	07-JAN-60	07-OCT-88
3647	NE	05-JUL-85	02-JAN-98	3808	NC	30-MAR-62	13-OCT-89
* 3651	NE	10-APR-98		3809	NE	24-AUG-79	24-MAR-95
3662	NE	07-AUG-87	17-DEC-93	3811	NE	06-DEC-63	27-SEP-91
3663	NE	31-MAY-74	14-AUG-92	3825	NE	16-DEC-77	09-JUN-89
3664	NE	13-MAY-77	05-APR-96	L/C 3853	NE	02-MAR-90	05-APR-96
3665	NE	13-NOV-87	11-MAR-94	L/C 3854	NE	23-OCT-87	23-APR-93
3668	NE	12-MAR-93		3855	NE	13-JAN-67	26-APR-91
3670	NE	21-OCT-94		3857	NE	17-NOV-67	10-JUL-87
3671	NE	27-AUG-82	03-JUN-94	3858	NE	28-JUL-67	28-JUL-89
3673	NC	01-DEC-95		3859	NE	17-JUN-66	18-JUL-80
3674	NC	01-DEC-95		3860	NE	12-SEP-69	05-JAN-90
3679	NC	14-JUN-91	21-FEB-97	3863	NE	25-APR-80	16-MAR-90
3680	NE	07-APR-78	26-APR-91	3864	NE	11-MAY-62	17-DEC-93
3681	NC	08-JUN-90		3865	NE	01-NOV-55	10-JUL-87
3682	NE	05-JUN-87		3868	NE	12-JUL-68	19-APR-91
* 3683	NE	06-MAR-98		3869	NE	28-NOV-86	02-MAR-90
3685	NE	25-AUG-95		3890	NC	14-MAR-86	07-APR-95
3686	NC	08-APR-88	02-DEC-94	3891	NC	08-SEP-89	01-AUG-97
3710	NE	04-JUL-86	15-JUN-90	3892	NC	13-JAN-84	03-JUN-94
3711	NE	15-JUN-84	19-FEB-93	3893	NC	13-JAN-84	
3717	NE	28-JUL-95		* 3894	NE	12-JUN-98	
3719	NE	17-APR-61	11-NOV-88	3895	NC	15-JUN-84	09-JUN-89
3720	NE	12-FEB-88	03-SEP-93	L/C 3902	NE	09-DEC-88	27-JUN-97
3721	NE	26-AUG-94		3909	NC	11-DEC-87	03-JUN-94
3722	NE	07-FEB-64	04-SEP-87	3920	NC	18-JAN-91	
3723	NE	29-JUN-84		3921	NE	15-DEC-95	
3724	NE	23-MAY-80	21-APR-95	* 3927	NE	29-MAY-98	
3726	NE	23-MAY-80	06-JAN-89	3931	NC	21-FEB-92	
3727	NE	29-JUN-62	24-MAR-95	3932	NC	21-FEB-92	12-JUN-98
3728	NE	05-FEB-82	24-JAN-97	3933	NE	20-JAN-89	19-FEB-93
* 3729	NE	05-JUN-98		3934	NC	21-FEB-92	02-JUN-95
3730	NC	30-NOV-60	21-DEC-90	3940	NC	01-MAR-96	
3733-A	NC	01-FEB-56		3955	NC	15-FEB-85	20-MAY-94
3734	NE	09-JUL-76	24-MAY-91	3956	NE	01-MAR-96	
3736	NE	31-AUG-90		3957	NC	11-DEC-87	03-JUL-92
3737	NE	14-AUG-87	21-APR-95	3958	NE	24-MAR-95	
3738	NE	04-FEB-83	24-MAR-95	3959	NC	11-DEC-87	03-JUL-92
3739	NE	03-FEB-84	01-SEP-89	3960	NC	13-AUG-93	
3740	NE	20-MAY-77	06-DEC-96	3962	NE	26-JAN-79	18-JUN-93
3741	NE	15-FEB-63	30-JUN-89	3963	NC	26-OCT-90	12-JUN-98
3742	NE	16-JUL-82	02-AUG-96	3964	NC	07-JUN-91	
3743	NE	25-MAR-77	10-FEB-95	3994	NE	20-JAN-89	22-SEP-95
L/C 3744	NE	20-MAY-88		4000	NE	14-DEC-84	
* 3745	NE	12-JUN-98		L/C 4001	NE	01-DEC-95	
3746	NE	12-AUG-77	02-JUL-93	L/C 4002	NE	27-DEC-91	05-JUL-96
3747	NE	16-SEP-77	30-MAY-97	L/C 4003	NE	14-DEC-84	29-JUL-94
3753	NE	30-APR-59	12-AUG-88	L/C 4006	NE	14-DEC-84	19-FEB-93
3761	NE	19-AUG-88		L/C 4010	NE	18-NOV-83	10-JUL-92
3772	NE	30-OCT-64	29-JAN-93	L/C 4011	NE	31-OCT-97	
3773	NE	26-APR-85	06-DEC-96	L/C 4012	NE	13-MAR-87	14-JUL-95
3781	NE	18-MAY-59	15-MAR-91	L/C 4013	NE	07-NOV-86	03-JUL-92
3784	NE	23-JUL-82	16-DEC-94	L/C 4015	NE	24-JUL-92	

L/C 4016	NE	05-MAY-95		4332	NE	29-DEC-61	24-JAN-97
L/C 4017	NE	16-JUN-95		L/C 4335	NE	27-SEP-85	
L/C 4020	NE	27-DEC-91		4337	NE	03-JAN-86	
L/C 4021	NE	27-DEC-91		L/C 4340	NE	12-APR-91	
L/C 4022	NE	27-DEC-91	02-AUG-96	4342	NE	03-JUN-88	26-APR-91
L/C 4023	NE	28-NOV-86	05-JAN-96	L/C 4363	NE	01-NOV-85	13-NOV-92
L/C 4024	NE	27-DEC-91		4365	NE	08-DEC-72	29-FEB-80
L/C 4025	NE	27-DEC-91		L/C 4367	NE	01-NOV-85	06-JUL-90
L/C 4026	NE	27-DEC-91	18-JUL-97	L/C 4374	NE	27-DEC-85	26-MAR-93
L/C 4045	NC	08-AUG-86		L/C 4375	NE	25-OCT-85	01-JAN-93
L/C 4047	NE	19-MAY-89		4376	NE	02-OCT-87	11-AUG-95
L/C 4049	NE	19-MAY-95		4377	NE	10-JAN-86	
L/C 4098	NC	21-SEP-84		4379	NE	31-OCT-86	14-FEB-92
L/C 4099	NC	21-SEP-84		4381	NE	17-JAN-86	03-MAY-96
4114	NC	08-MAY-92		4384	NE	31-OCT-86	13-AUG-93
L/C 4116	NC	09-APR-93		L/C 4385	NE	07-JUN-96	
4117	NC	28-OCT-88		4386	NE	03-OCT-86	24-MAR-95
L/C 4118	NC	22-MAY-87	06-MAR-98	4391	NE	21-FEB-92	
4124	NC	07-AUG-92		4394	NE	14-SEP-90	
4130	NC	30-MAY-69	17-DEC-76	4395	NE	25-MAY-90	
4140	NC	07-JAN-72	02-JUL-82	4396	NE	19-FEB-88	30-JUL-93
4141	NE	01-NOV-96		4399	NC	03-APR-42	26-AUG-83
4142	NE	01-NOV-96		4402	NE	11-SEP-59	20-MAR-81
4145	NE	22-MAR-91		L/C 4403	NE	21-JUN-85	24-DEC-93
4170	NC	28-FEB-92		L/C 4404	NE	26-JUL-85	29-JUN-90
4201	NE	26-JAN-90	10-MAR-95	L/C 4405	NE	12-JUL-85	21-JUL-89
4202	NC	14-AUG-87	17-OCT-97	* L/C 4406	NE	27-FEB-98	
4203	NC	07-AUG-87	07-NOV-97	4416	NE	07-JAN-83	
4209	NC	21-OCT-94		4419	NE	12-AUG-88	02-FEB-96
4210	NC	05-APR-91		4420	NE	03-OCT-69	06-NOV-81
4211	NE	07-DEC-90	02-JUN-95	4421	NE	11-OCT-68	23-MAR-79
L/C 4227	NC	24-MAY-91		4422	NE	10-OCT-69	17-JUN-94
L/C 4230	NC	15-JUN-90		4425	NE	02-MAY-80	17-OCT-97
L/C 4233	NC	11-JAN-91		4426	NE	18-MAR-88	
L/C 4234	NC	10-APR-87	26-DEC-97	4428	NE	06-OCT-78	
L/C 4235	NC	31-MAR-89		4429	NE	04-JUN-93	
L/C 4236	NC	30-JAN-87	28-JUL-95	4430	NE	02-OCT-81	21-MAY-93
L/C 4237	NC	30-DEC-88	30-JAN-98	4432	NE	14-DEC-84	15-JUN-90
L/C 4240	NC	06-OCT-89	06-JUN-97	4437	NE	17-MAY-91	
L/C 4241	NC	01-DEC-89	02-AUG-96	4440	NE	18-JUL-80	
L/C 4242	NE	28-AUG-92		4443	NC	16-JUN-67	18-FEB-77
L/C 4243	NC	20-JUN-86	25-AUG-89	4445	NC	17-JUN-49	07-DEC-79
4244	NC	21-FEB-86	26-APR-91	4446	NC	06-JAN-53	31-DEC-93
4245	NE	28-NOV-86	25-DEC-92	4447	NE	09-NOV-84	
L/C 4255	NC	27-JUL-90		4448	NE	27-APR-90	
4266	NC	29-SEP-89		4449	NE	02-JAN-87	
4275	NE	23-DEC-83	03-MAY-96	4450	NE	02-MAR-73	13-NOV-87
4276	NE	25-JUL-97		L/C 4451	NE	27-MAR-87	15-JUL-88
4277	NC	29-APR-83	28-SEP-90	4452	NE	29-JUL-83	
* 4278	NE	20-MAR-98		4453	NE	17-DEC-82	
4279	NE	13-JUN-86	13-SEP-91	4454	NE	03-FEB-78	
4281	NE	20-FEB-87	14-JUL-95	4455	NE	10-SEP-76	20-OCT-89
4306	NE	14-JUN-85	07-JUN-96	4456	NE	19-DEC-80	17-JUN-94
4307	NE	15-FEB-85	13-NOV-92	4459	NE	22-JAN-88	
4308	NE	07-SEP-84	27-SEP-91	4460	NE	11-SEP-87	03-MAY-91
* L/C 4320	NE	26-SEP-97		L/C 4462	NE	28-JUN-85	06-JUN-97
L/C 4321	NE	11-OCT-85	01-FEB-91	L/C 4463	NE	09-AUG-85	15-JUN-90
4328	NE	03-FEB-84	25-MAY-90	L/C 4464	NE	11-OCT-85	15-JUN-90
4331	NE	19-OCT-84	26-DEC-97	4466	NE	17-MAY-91	01-MAR-96

4467	NE	21-MAR-69	01-MAR-96		4615	NE	22-MAY-87	
4468	NE	12-JUL-85			4616	NE	19-APR-91	17-OCT-97
4469	NE	08-NOV-85			4617	NE	19-MAY-89	25-APR-97
4470	NE	04-JAN-80			4619	NC	29-NOV-63	29-OCT-93
4471	NE	11-FEB-77	11-AUG-89	L/C 4622	NE	25-APR-97		
4472	NE	14-AUG-81		L/C 4624	NE	17-JAN-86		
4473	NE	25-NOV-77		L/C 4625	NE	10-JAN-86	22-APR-88	
4474	NE	31-DEC-76		L/C 4626	NE	08-NOV-85	22-APR-88	
4483	NE	12-AUG-88		4633	NE	24-APR-87	21-APR-95	
L/C 4485	NE	26-SEP-97		4634	NE	14-JUL-95		
L/C 4486	NE	19-OCT-84	24-MAR-95	4635	NE	24-JUN-83	28-NOV-97	
4491	NC	06-MAY-66	01-FEB-80	4637	NE	14-AUG-87	19-MAY-89	
4492	NC	04-FEB-66	25-JUL-80	4638	NC	20-SEP-55	12-DEC-80	
4497	NE	30-JUL-71	12-OCT-79	4639	NC	20-SEP-55	12-DEC-80	
4498	NE	23-OCT-87	03-NOV-95	4640	NE	10-AUG-84		
4504	NE	14-FEB-64	23-JAN-76	4641	NE	31-AUG-84		
4505	NC	14-FEB-64	14-FEB-75	4642	NC	18-JAN-60	31-MAR-78	
4506	NC	28-FEB-64	25-JUN-82	4643	NE	03-MAY-85	15-MAY-92	
4507	NC	28-FEB-64	30-JAN-76	4644	NC	01-DEC-67	04-SEP-92	
4509	NC	05-DEC-69	21-JUL-78	4652	NE	31-OCT-80		
4510	NC	22-MAR-68	15-JUL-94	4653	NE	12-MAR-76	24-MAR-95	
4511	NC	10-JUL-64	17-OCT-80	4654	NC	27-OCT-52	22-SEP-78	
4512	NC	30-OCT-64	09-FEB-79	4658	NC	08-MAY-70	15-FEB-80	
4514	NE	23-OCT-81	29-SEP-89	4659	NC	10-OCT-57	08-SEP-78	
4515	NC	21-MAY-52	02-JAN-81	4661	NC	20-SEP-55	23-JUN-89	
4516	NE	02-NOV-62	10-DEC-76	4663	NC	10-OCT-57	03-SEP-76	
4518	NC	18-OCT-51	26-JAN-79	4665	NC	10-OCT-57	08-MAY-81	
4519	NC	13-OCT-51	04-FEB-83	4666	NC	10-OCT-57	20-JUN-86	
L/C 4520	NE	02-JUN-95		4667	NE	08-OCT-65	13-AUG-76	
4521	NE	04-JUN-65	08-SEP-78	4668	NC	10-OCT-57	23-OCT-87	
4522	NC	15-JUL-59	04-SEP-81	4669	NC	10-OCT-57	29-MAR-85	
4523	NC	27-MAR-64	13-JUN-75	4670	NC	10-OCT-57	29-JUL-77	
4524	NE	07-FEB-64	15-AUG-80	4679	NE	31-DEC-76	04-JUN-82	
4529	NE	30-SEP-88		4680	NC	02-JAN-59	27-FEB-76	
4530	NE	11-MAR-83	17-APR-92	4682	NC	19-OCT-62	01-MAY-87	
4531	NC	24-MAY-74	14-MAR-97	L/C 4700	NE	30-DEC-94		
4535	NC	12-MAR-65	21-AUG-81	4701	NC	27-DEC-63	23-OCT-81	
4536	NC	20-SEP-63	14-FEB-75	4702	NC	17-JAN-64	28-SEP-90	
4538	NE	26-MAR-76		4703	NE	31-JAN-64	26-AUG-94	
4540	NC	10-OCT-57	26-JAN-79	4705	NE	30-JAN-56	06-AUG-76	
4541	NC	10-OCT-57	03-OCT-80	4712	NC	21-FEB-64	01-FEB-74	
4542	NE	09-SEP-66	23-JAN-76	4722	NE	27-FEB-87		
4543	NC	10-OCT-57	10-NOV-78	4724	NE	20-MAY-60	08-SEP-78	
4548	NC	10-OCT-57	11-MAR-88	4725	NC	09-JUN-53	28-AUG-81	
L/C 4560	NE	14-MAR-86	25-DEC-92	4728	NE	16-JUN-95		
4582	NC	14-FEB-64	10-SEP-76	L/C 4730	NE	07-OCT-83	17-OCT-97	
4583	NC	16-JAN-61	02-JUL-82	L/C 4731	NE	16-DEC-94		
4584	NC	02-JAN-59	14-NOV-80	4732	NE	27-DEC-68	22-FEB-80	
4585	NC	02-JAN-59	29-AUG-80	4744	NC	22-FEB-63	27-NOV-81	
4587	NE	04-SEP-87	21-AUG-92	4745	NC	17-MAY-63	09-OCT-87	
4591	NC	02-JAN-59	18-AUG-78	4763	NC	01-FEB-63	26-JUL-85	
4592	NE	03-JUN-83	02-APR-93	4764	NC	01-FEB-63	09-NOV-90	
4593	NC	20-JAN-60	12-JUN-81	4765	NC	29-NOV-63	26-APR-85	
4594	NC	02-JAN-59	14-FEB-92	4766	NC	06-DEC-63	05-APR-96	
4595	NC	02-JAN-59	04-FEB-83	4767	NC	06-DEC-63	06-JUL-90	
4596	NC	02-JAN-59	09-JAN-81	4769	NE	19-SEP-75	03-MAY-85	
4597	NC	02-JAN-59	09-OCT-81	4771	NE	02-JUL-76	29-JUL-83	
4598	NE	21-JAN-83		4773	NC	29-NOV-63	29-DEC-78	
4609	NE	20-SEP-63	07-JAN-77	4774	NC	24-JAN-64	19-MAR-82	

L/C 4775	NE	09-SEP-83	02-MAY-97	* 5138	NE	05-JUN-98	
L/C 4776	NE	08-JUL-83		5140	NC	15-NOV-63	20-OCT-78
L/C 4817	NC	11-APR-86		5143	NE	02-MAY-86	
4830	NC	14-FEB-86		5179	NC	28-AUG-64	12-JUN-81
L/C 4831	NC	26-DEC-86		5300	NC	25-NOV-66	25-NOV-77
L/C 4832	NC	02-OCT-87		5316	NC	24-AUG-61	25-JAN-80
4839	NC	27-MAR-92		5335	NC	15-MAR-85	
L/C 4841	NC	19-MAY-89		5338	NC	06-JUN-86	
L/C 4842	NE	03-MAR-89		5340	NC	19-APR-63	14-DEC-79
4843	NC	28-JAN-83		5348	NE	05-NOV-76	
L/C 4844	NC	01-FEB-85	25-MAR-94	5349	NC	05-MAR-58	03-MAR-78
L/C 4845	NE	12-SEP-97		5351	NC	24-FEB-56	25-MAR-83
L/C 4846	NE	15-DEC-95		5352	NE	08-JUL-60	16-MAY-80
L/C 4847	NE	05-JUL-96		5365	NC	26-SEP-69	25-AUG-89
4848	NC	12-JUN-87		5373	NC	15-FEB-85	
4849	NC	30-DEC-88		5374	NC	17-JAN-86	
L/C 4850	NC	11-MAY-90		5375	NC	28-FEB-86	
L/C 4851	NE	04-APR-97		5376	NC	22-MAR-85	
4852	NC	02-DEC-94		5390	NC	17-MAY-68	04-NOV-88
L/C 4853	NC	13-OCT-89		5391	NC	17-MAY-68	18-FEB-83
4854	NC	25-APR-97		5396	NC	01-JUN-60	26-SEP-75
4855	NC	06-JUN-97		5397	NC	04-NOV-60	18-NOV-83
*4865	NC	30-JAN-98		5398	NE	04-SEP-81	
4885	NE	12-FEB-88		5399	NE	04-SEP-81	
L/C 4905	NC	22-JUL-88	24-JUL-92	5400	NE	19-DEC-60	23-APR-82
L/C 4906	NC	18-MAR-88	11-JUN-93	5403	NE	04-FEB-87	
4909	NC	17-JUN-88	01-MAR-96	5405	NC	26-DEC-51	25-MAR-88
4911	NE	07-MAY-93		5406	NC	06-MAR-14	15-AUG-80
4912	NE	04-JUN-93		5410	NE	25-MAR-77	19-MAR-93
L/C 4913	NC	07-AUG-92		5411	NE	04-JUN-58	30-JAN-81
4920	NC	29-SEP-89		5412	NE	23-FEB-68	27-APR-84
* 4921	NE	06-MAR-98		5414	NE	06-AUG-37	10-OCT-80
L/C 4951	NC	04-JAN-91		5427	NC	11-JUN-59	31-OCT-80
L/C 4952	NC	21-AUG-92		5440	NE	01-NOV-74	06-FEB-81
4954	NE	20-JUN-97		5449	NE	15-AUG-86	
4955	NC	15-FEB-91		5450	NE	22-MAY-70	29-JUL-77
4956	NC	23-NOV-90		5451	NE	05-NOV-65	22-MAR-85
4957	NC	13-JUL-90		5452	NC	16-DEC-54	05-FEB-82
4980	NC	03-JAN-92		5455	NE	15-FEB-61	15-DEC-78
L/C 5001	NE	04-NOV-94		5456	NE	26-MAY-72	12-JUN-81
5002	NC	25-JUL-75		5457	NE	08-MAR-63	01-DEC-78
5003	NE	26-SEP-69	23-JUL-76	5458	NE	08-MAR-63	10-NOV-78
L/C 5023	NC	20-APR-90		5459	NC	26-JAN-53	06-FEB-81
L/C 5030	NC	26-OCT-90		5464	NC	16-DEC-54	07-MAY-82
5031	NC	04-JAN-91		5467	NC	18-MAR-55	29-JUN-90
5042	NC	24-FEB-84		5468	NC	18-MAR-55	04-SEP-81
5043	NC	29-JUN-84		5469	NC	18-MAR-55	12-NOV-82
5044	NC	10-JUN-83		5471	NE	12-MAY-67	04-DEC-81
5045	NC	01-JUL-83		5476	NE	03-JUL-59	15-JUN-73
5046	NC	13-JAN-84		5510	NE	11-JAN-80	
5047	NC	17-AUG-84		5512	NC	18-DEC-87	
5048	NC	07-AUG-87		5533	NE	11-MAR-77	
5049	NC	08-APR-88		5620	NE	21-JUN-91	
5051	NC	07-JUN-96		5621	NE	26-APR-91	
5052	NC	25-APR-97		5622	NE	27-DEC-91	
5080	NC	03-OCT-97		5623	NE	08-NOV-91	
5133	NC	10-OCT-69	14-MAY-82	5624	NE	26-APR-91	
5134	NC	11-AUG-67	16-MAR-73	5625	NE	10-JUL-92	
5135	NC	11-AUG-67	19-FEB-88	5626	NC	08-AUG-86	

5628	NC	08-AUG-97		6269	NE	04-NOV-60	11-MAR-77
5640	NC	22-APR-94		6270	NE	09-NOV-73	
5705	NE	13-MAY-83		6271	NE	07-SEP-73	
5706	NE	24-JUN-83		6272	NE	14-SEP-73	
5707	NE	28-JAN-83		6273	NE	28-SEP-73	
5720	NC	22-APR-94		6274	NE	07-SEP-73	
5800	NE	19-JUL-74	22-MAR-91	6281	NE	29-JAN-82	25-MAR-88
5801	NE	24-MAY-74		6285	NC	03-JUN-88	
5860	NE	30-SEP-66	14-MAY-76	6286	NC	25-NOV-88	
5861	NE	30-SEP-66	14-MAY-76	6287	NC	11-JUN-82	
6021	NE	23-MAY-86		6301	NE	03-MAY-96	
6022	NE	23-MAY-86		6302	NE	20-APR-73	
6023	NE	26-FEB-88	30-JUN-95	6310	NE	04-MAY-73	17-FEB-78
6026	NC	17-SEP-76		6311	NC	17-AUG-62	
6028	NC	15-JAN-71		6321	NC	15-MAY-57	
6030	NC	14-AUG-87		6322	NC	15-MAY-57	
6035	NC	20-NOV-87		6341	NE	14-JAN-91	
6036	NC	28-AUG-87		6354	NC	09-NOV-50	
6037	NC	13-NOV-87		6355	NE	09-FEB-72	
6038	NC	11-SEP-87	19-SEP-97	6356	NC	30-OCT-49	
6050	NE	01-AUG-86		6357	NC	28-FEB-50	13-APR-73
6100	NC	15-MAY-87	10-APR-92	6358	NE	18-MAY-49	28-JAN-72
6101	NC	10-APR-64		6359	NE	24-MAY-68	
6105	NE	20-JAN-89		6360	NC	17-APR-48	
6106	NE	21-JUN-91		6368	NC	16-JUN-58	06-AUG-76
6107	NE	10-JUN-83		6369	NE	24-MAY-85	
6108	NE	28-JAN-83	05-JUN-92	6370	NE	03-AUG-90	
6109	NE	30-MAR-90		6371	NE	01-MAR-74	
6110	NE	24-FEB-89	15-DEC-95	6390	NE	08-FEB-80	
6111	NE	11-MAR-83		6408	NE	13-FEB-87	
6112	NC	06-FEB-70	25-MAR-94	6409	NE	02-APR-93	
6201	NE	16-MAR-73	22-NOV-91	* 6410	NE	17-APR-98	
6205	NC	30-JUN-95		* 6411	NE	17-APR-98	
6206	NE	02-APR-82	06-OCT-95	6412	NE	18-APR-97	
6207	NE	02-APR-82	21-FEB-92	6413	NE	17-FEB-89	
6209	NC	04-SEP-70		6414	NE	13-FEB-87	
6211	NC	26-AUG-88	29-OCT-93	6415	NE	18-APR-97	
6212	NE	12-NOV-82	21-APR-95	6416	NE	31-MAY-91	
6213	NE	10-AUG-84	28-JUL-89	6417	NE	18-APR-97	
6214	NC	18-MAR-77	07-JUL-89	6418	NE	01-APR-88	
6215	NC	01-JUL-77	08-MAY-92	6419	NE	05-APR-96	
6216	NC	02-APR-82	28-FEB-92	6420	NE	18-APR-97	
6217	NC	18-JUN-76	12-FEB-93	* 6421	NE	17-APR-98	
6218	NE	11-MAR-88	13-NOV-92	* 6422	NE	17-APR-98	
6240	NE	15-DEC-95		* 6423	NE	17-APR-98	
6241	NE	06-AUG-57	28-MAY-82	* 6424	NE	17-APR-98	
6242	NE	13-JUN-80	01-MAY-92	* 6425	NE	17-APR-98	
6243	NE	10-DEC-71	17-NOV-95	* 6426	NE	17-APR-98	
6247	NE	19-FEB-93		* 6427	NE	17-APR-98	
6248	NC	04-MAY-34	06-NOV-95	* 6428	NE	17-APR-98	
6249	NE	29-MAR-85		6429	NE	17-JUN-94	
6251	NE	18-JUL-86	05-APR-96	6430	NE	01-APR-88	
6258	NC	30-DEC-88		6431	NE	01-APR-88	
6259	NC	23-FEB-90		6432	NE	02-JUN-95	
6260	NC	06-JAN-89		6433	NE	02-MAR-84	
6263	NC	14-APR-89		6434	NE	20-FEB-87	
6264	NC	14-APR-89		6435	NE	20-FEB-87	
6267	NC	09-JUL-65	28-AUG-81	6436	NE	31-MAY-91	
6268	NE	15-JUN-62		6437	NE	02-MAR-84	

6438	NE	02-APR-93				
6439	NE	02-MAR-84	7482	NC	21-AUG-92	
6440	NE	02-MAR-84	7485	NC	17-MAR-89	
6441	NE	20-FEB-87	7486	NC	10-FEB-89	
6451	NE	17-JUN-94	7487	NC	10-JUL-87	
6452	NC	29-MAY-87	7488	NC	08-MAR-91	
6453	NC	29-MAY-87	7489	NC	28-AUG-92	
6454	NC	15-MAY-87	7502	NC	04-SEP-81	
6455	NC	15-MAY-87	7511	NE	29-DEC-89	
6455 SUPP	NE	01-JAN-89	7512	NC	05-JUL-85	
6505	NC	05-APR-85	28-FEB-86	7520	NC	01-JUN-84
6506	NC	12-APR-85	21-FEB-86	7521	NC	01-JUN-84
6730	NC	26-DEC-69	16-MAR-79	7527	NE	12-APR-74
7000	NC	05-MAR-82		7540	NC	07-JAN-83
7010	NE	12-JAN-79	04-MAR-88	* 7552	NE	27-MAR-98
L/C 7011	NE	02-SEP-83		7565	NC	04-OCT-96
7050	NE	03-FEB-89		7566	NC	22-JUN-90
7051	NE	14-DEC-73	08-AUG-86	7568	NC	05-JUL-85
7052	NE	10-JUN-66	19-JUL-85	7569	NC	05-JUL-85
7053	NE	10-APR-70	08-APR-94	7570	NC	02-MAY-86
7065	NE	31-MAY-63	30-DEC-83	7571	NC	11-APR-86
7066	NE	21-JUN-63	30-AUG-85	7572	NC	02-MAY-86
7067	NE	30-APR-71	18-MAY-90	7575	NC	06-MAR-92
7071	NE	31-JUL-64	08-SEP-78	7578	NC	27-JAN-95
7072	NE	30-APR-71	25-JUL-97	7600	NC	26-JUL-85
7082	NE	20-MAY-66	27-APR-84	7608	NE	04-JUN-76
7083	NE	15-JUN-84		7620	NC	02-MAY-97
7103	NE	05-AUG-77		7621	NC	02-MAY-97
7121	NE	17-NOV-72	06-OCT-89	7646	NE	02-FEB-73
7122	NE	19-OCT-62	06-SEP-85	7661	NC	14-MAR-86
7125	NE	20-APR-60	26-SEP-80	7662	NE	19-JUL-91
7126	NE	08-MAR-54	13-AUG-93	7663	NE	11-APR-97
7127	NE	27-MAY-83	14-DEC-84	7664	NC	28-FEB-86
7134	NC	23-JUL-93		7665	NC	13-JUN-86
7135	NE	07-MAR-58	14-DEC-79	7666	NC	28-FEB-86
7136	NC	23-JUL-93		7667	NC	14-MAR-86
7150	NE	09-JUL-65	01-OCT-82	7668	NC	18-MAY-90
7170	NE	18-APR-75	23-DEC-83	7669	NC	18-MAY-90
7171	NE	15-APR-60	08-SEP-78	7685	NC	28-FEB-86
7180	NE	11-AUG-78		7686	NC	27-MAR-81
7181	NC	22-FEB-63	04-MAY-84	7687	NC	05-AUG-83
7184	NC	10-JUL-64	16-DEC-77	7710	NE	13-JUN-97
7185	NE	08-APR-60	27-APR-84	7725	NE	22-JUN-84
7193	NC	10-MAY-63	10-MAR-78	7731	NE	25-MAY-84
7194	NE	20-MAR-81		7733	NE	19-MAR-71
7195	NC	23-JUL-93		7735	NE	14-AUG-70
7212	NE	11-JAN-85		7740	NE	30-MAY-97
7220	NE	02-NOV-79	16-MAR-84	7750	NE	13-JUN-97
7292	NC	30-JAN-62	27-SEP-85	7760	NC	03-MAY-68
7302	NE	18-AUG-78	09-NOV-90	7770	NE	27-AUG-71
7304	NC	17-FEB-78	06-SEP-85	7776	NE	30-MAY-97
7310	NC	11-JUL-86		7777	NE	30-MAY-97
7371	NE	14-DEC-73	27-MAR-81	7778	NE	13-JUN-97
7404	NE	17-MAY-63	02-SEP-83	7779	NE	13-JUN-97
7405	NE	01-OCT-82		7780	NC	06-JUL-90
7411	NE	13-APR-73	29-SEP-89	7781	NC	06-JUL-90
7430	NE	21-MAY-76	07-OCT-83	7782	NE	13-JUN-97
7465	NE	28-FEB-57	02-AUG-91	7783	NE	13-JUN-97
7481	NC	21-AUG-92		7830	NE	02-MAR-84

7832	NE	19-FEB-71	06-MAR-81
7920	NE	27-APR-84	23-MAY-86
7930	NE	18-MAY-84	
7935	NE	21-JUN-85	
7940	NE	27-APR-79	20-SEP-85
7941	NC	05-JAN-73	14-MAR-86
7950	NE	03-MAY-85	
7951	NE	24-FEB-84	
7952	NE	17-MAR-72	27-JUL-84
7953	NE	05-APR-96	
7954	NC	17-MAY-74	17-JUN-83
7980	NC	16-JAN-87	
L/C 8005	NE	07-DEC-84	02-MAY-97
L/C 8006	NE	05-AUG-88	
L/C 8007	NE	19-AUG-88	
L/C 8010	NE	01-AUG-86	26-MAY-89
L/C 8011	NE	30-DEC-94	
L/C 8012	NE	04-NOV-94	
L/C 8013	NE	04-NOV-94	
L/C 8014	NE	18-NOV-94	
L/C 8015	NE	16-DEC-94	
L/C 8046	NE	07-OCT-83	
L/C 8047	NE	07-OCT-83	06-DEC-85
L/C 8048	NE	30-DEC-94	
L/C 8049	NE	30-DEC-94	
C-4	NC	25-JUL-86	

(AMA8035-10-5-6)

(DFO-H98-057)

**\*1552 CANADIAN COAST GUARD PUBLICATIONS - New edition of Newfoundland List of lights, buoys and fog signals - 1998.**

The 1998 edition of the Newfoundland List of lights, buoys and fog signals has been published. Information contained in Notices to Mariners up to and including monthly edition No. 2 of 1998 has been embodied in this publication. The price of this publication is \$14.50.

Appendix A, Section V, of this monthly edition of Notices to Mariners list changes which will bring the above publication up to date. This publication is available from:

Hydrographic Chart Distribution Office  
Fisheries and Oceans Canada  
1675 Russell Road  
P.O. Box 8080  
Ottawa, Ontario  
Canada  
K1G 3H6

Phone: (613) 998-4931  
Fax: (613) 998-1217  
E-Mail: chs\_sales@chshq.dfo.ca

Hydrographic Chart Distribution Office  
Fisheries and Oceans Canada  
9860 W. Saanich Road  
P.O. Box 6000  
Sidney, British Columbia  
Canada  
V8L 4B2

Phone: (250) 656-8358  
Fax: (250) 363-6323  
E-mail: chart\_sales@ios.bc.ca

Internet: <http://www.chshq.dfo.ca>

or through your authorized Canadian Hydrographic Service Chart Dealer

(M2204-394)

(CCG-H98-039)

**\*1544 NORTHWEST TERRITORIES - BATHURST INLET AND MELVILLE SOUND - Chart supplements.**

The Canadian Hydrographic Service advises mariners that supplements to charts 7780 and 7781 which contain recent survey information are available upon request from the Sales and Distribution office at:

Canadian Hydrographic Service  
Department of Fisheries and Oceans  
Institute of Ocean Sciences  
9860 West Saanich Road, P.O. Box 6000  
Sidney BC  
V8L 4B2  
Phone: (250) 363-6358  
Fax: (250) 363-6841

(AMA8035-10-35)

(DFO-P98-023)

**\*1503 EASTERN ARCTIC - APPROACH TO SORRY HARBOR - BREWER BAY - Wreck.**

Chart (Last correction) - 5340(1)(536/86) - 5340(Inset, Brewer Bay)(1)(536/86)

1. Add	dangerous wreck, PA	61°34'56" N 64°38'23" W (approx)
(AMA8035-10-35)		(DFO-C98-126)

**\*1536 HUDSON BAY - BROUGHTON ISLAND TO BÉLANGER ISLAND - Soundings.**

Chart (Last correction) - 5706(NAD 27)(1-4)(393/96)

1. Add	4 fathoms 2 feet PA Repd 1996	56°27'32" N 77°58'50" W (approx)
2. Add	6 fathoms 2 feet PA Repd 1996	56 33 05 N 77 43 50 W (approx)
3. Add	7 fathoms 2 feet PA Repd 1996	56 33 08 N 77 39 15 W (approx)
4. Add	7 fathoms 2 feet PA Repd 1996	56 33 17 N 77 21 05 W (approx)
(AMA8035-10-35)		(DFO-C98-133)

**\*1510(P) NORTHWEST TERRITORIES - SIMPSON STRAIT - RAE STRAIT - Shoal depths.**

Charts (Which will be affected) - 7760(NAD 27)(1-48) - 7733(49-53) - 7083(54-60)

1. Replace	6 fathoms 2 feet with 5 fathoms	68°28'39".6 N 96°45'11".8 W
2. Add	5 fathoms 2 feet	68 22 19.8 N 96 12 10.6 W
3. Add	5 fathoms 2 feet	68 26 35.4 N 96 45 26.3 W
4. Delete	21 fathoms	close northwest of (2)
5. Delete	18 fathoms	close southeast of (2)
6. Add	5 fathoms 5 feet	68 25 28.3 N 96 36 02.4 W
7. Replace	9 fathoms 1 foot with 3 fathoms 5 feet	68 25 57.2 N 96 28 21.7 W
8. Replace	7 fathoms 4 feet with 3 fathoms 4 feet	68 23 06.6 N 96 26 34.1 W
9. Add	4 fathoms 4 feet	68 24 50 N 96 21 33.2 W
10. Add	5 fathoms 1 foot	68 28 12.7 N 96 11 27.1 W
11. Add	7 fathoms	68 29 15.3 N 96 08 23 W
12. Add	0 fathom 1 foot	68 26 24.1 N 95 51 41.3 W
13. Add	3 fathoms 1 foot	68 29 24.6 N 95 46 22.5 W

14. Replace	6 fathoms 5 feet with 5 fathoms 5 feet	68°33'43".4 N 95°34'07".7 W
15. Add	4 fathoms 4 feet	68 33 24.9 N 95 29 36.3 W
16. Delete	11 fathoms	close eastward of (15)
17. Add	7 fathoms 1 foot	68 35 34 N 95 25 39.3 W
18. Add	7 fathoms	68 35 42.2 N 95 23 47 W
19. Delete	10 fathoms	close eastward of (18)
20. Add	6 fathoms	68 37 43.5 N 95 31 14.3 W
21. Add	6 fathoms 2 feet	68 37 20.8 N 95 24 50.6 W
22. Add	6 fathoms 4 feet	68 37 12.4 N 95 19 25.8 W
23. Add	6 fathoms 3 feet	68 38 15.2 N 95 24 40.1 W
24. Replace	7 fathoms with 6 fathoms 2 feet	68 38 26.8 N 95 26 20 W
25. Add	6 fathoms	68 38 57.5 N 95 26 17.2 W
26. Add	2 fathoms 2 feet	68 45 33.1 N 95 13 06.1 W
27. Add	6 fathoms 1 foot	68 48 31.8 N 95 00 25 W
28. Add	5 fathoms 4 feet	68 49 06 N 94 59 30.7 W
29. Add	3 fathoms 3 feet	68 49 14.3 N 94 58 10.4 W
30. Replace	9 fathoms 3 feet with 5 fathoms	68 49 32.9 N 94 57 13.9 W
31. Replace	11 fathoms with 5 fathoms 3 feet	68 49 14.8 N 94 52 00.9 W
32. Replace	5 fathoms 1 foot with 2 fathoms 4 feet	68 50 20.1 N 94 57 40.4 W
33. Add	4 fathoms 2 feet	68 50 25.3 N 94 56 10.6 W
34. Replace	9 fathoms 4 feet with 5 fathoms 2 feet	68 50 43 N 94 53 39 W
35. Add	4 fathoms 4 feet	68 51 02.8 N 94 50 18.8 W
36. Delete	16 fathoms	close northeast of (35)
37. Add	3 fathoms 2 feet	68 51 26.1 N 94 55 05.7 W
38. Add	3 fathoms 3 feet	68 51 10.4 N 94 57 31.8 W
39. Add	6 fathoms	68 51 32.9 N 94 58 58.7 W
40. Replace	5 fathoms 4 feet with 3 fathoms 5 feet	68 51 52.8 N 94 52 10.7 W

41. Replace	11 fathoms with 4 fathoms 2 feet	68°52'06".5 N 94°53'41".5 W
42. Add	3 fathoms 1 foot	68 52 13.5 N 94 55 09.3 W
43. Add	4 fathoms	68 52 34 N 94 52 41.1 W
44. Replace	8 fathoms 3 feet with 5 fathoms 5 feet	68 52 53.1 N 94 54 25.5 W
45. Add	4 fathoms 5 feet	68 53 10.1 N 94 57 53.9 W
46. Add	4 fathoms	68 53 56.5 N 94 52 58.1 W
47. Add	5 fathoms 2 feet	68 53 49.6 N 94 48 28.1 W
48. Replace	14 fathoms with 1 fathom 5 feet	68 54 37.2 N 94 47 01 W
49. Add	5 fathoms	68 29 27.5 N 96 43 20 W
50. Add	5 fathoms 2 feet	68 27 26.5 N 96 43 35 W
51. Add	3 fathoms 5 feet	68 26 52 N 96 28 25 W
52. Add	5 fathoms 5 feet	68 25 39 N 96 35 29 W
53. Add	3 fathoms 4 feet	68 23 00 N 96 27 21 W
54. Add	5 fathoms 3 feet	68 48 00 N 94 52 50 W
55. Replace	13 fathoms with 6 fathoms 4 feet	68 36 47 N 95 21 18 W
56. Add	3 fathoms 1 foot	68 29 50 N 95 48 30 W
57. Add	0 fathom 1 foot	68 26 51 N 95 53 20 W
58. Replace	9 fathoms 1 foot with 3 fathoms 5 feet	68 26 53 N 96 28 40 W
59. Replace	8 fathoms with 5 fathoms 5 feet	68 26 15 N 96 35 20 W
60. Add	3 fathoms 4 feet	68 23 35 N 96 26 30 W
NOTE:	This information will be incorporated in an upcoming new chart and new editions.	

(AMA8035-10-35)

(DFO-P98-016)

**\*1522 NORTHWEST TERRITORIES - VICTORIA STRAIT - Notes.**

Chart (Last correction) - 7783(NAD 83)(1,2)(636/97)

1. Amend	note to read "Adjoining Chart/Carte adjacente 7784"	outside north border of chart 101°17'00" W (approx.)
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2. Delete	note See/Voir Note TRANSFER OF POSITION TRANSFERT D'UNE POSITION	69°00'36" N 101°16'00" W (approx)
		(AMA8035-10-35) (DFO-P98-026)

**\*1511 BRITISH COLUMBIA - STRAIT OF GEORGIA - ROBERTS BANK - Light.**

Charts (Last correction) - 3492(NAD 83)(1)(665/97) - LC 3463(NAD 83)(2)(939/98) - 3601(NAD 83)(3) - 3313(Sheet 2)(Vancouver Island/Île de Vancouver)(NAD 83)(3)

1. Add	light "Q"	49°00'07".5 N 123°06'44".2 W
2. Replace	beacon Bn with light "Q"	49 00 07.5 N 123 06 44.2 W
3. Add	light	49 00 07.5 N 123 06 44.2 W

NOTE: Digital data products 3463R/M, 70113(3601), 70145(3463) and 70297(3492) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)	(DFO-P98-017)
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**\*1528 BRITISH COLUMBIA - BURRARD INLET - POINT ATKINSON - Radiobeacon.**

Charts (Last correction) - 3481(NAD 27)(1)(292/94) - 3526(NAD 83)(2)(New Edition, Feb./95) - LC 3512 (NAD 27)(1)(196/93) - LC 3463(NAD 83)(2)(1511/98) - 3601(NAD 83)(2) - 3311(Sheet 1)(NAD 83)(2) - 3313(Sheet 2)(NAD 83)(2)

1. Delete	radiobeacon	49°19'50" N 123°15'48" W
2. Delete	radiobeacon	49 19 49 N 123 15 53 W

NOTE: Digital data products 3463R/M, 3481R/M, 3512R/M, 3526R/M, 70004(3526), 70072(3481), 70113(3601), 70142(3512) and 70145(3463) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-8-6)	(CCG-P98-022)
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**\*1537 BRITISH COLUMBIA - DESOLATION SOUND - SQUIRREL COVE - Rock.**

Charts (Last correction) - 3555(Plan, Squirrel Cove)(NAD 27)(1)(285/93) - 3538(NAD 83)(2)(697/97) - 3312(Sheet 10)(Squirrel Cove)(NAD 27)(3)

1. Add	rock which covers and uncovers with drying height of 5 feet	50°08'34" N 124°55'19".6 W
2. Add	rock which covers and uncovers with drying height of 1 metre 5 decimetres	50 08 33.4 N 124 55 24.7 W

3. Add rock which covers and uncovers with drying height of 1 metre 5 decimetres 50 08 34 N 124 55 19.6 W

NOTE: Digital data products 3538R/M and 3555R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-P98-025)

**\*1509 UNITED STATES, WEST COAST - DIXON ENTRANCE - TONGASS PASSAGE - Buoy.**

Chart (Last correction) - 3960(NAD 83)(1)(338/94)

1. Add can mooring buoy 54°44'13" N 130°38'27" W

NOTE: Digital data products 3960R/M and 70069(3960) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-P98-022)

**SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS**

British Columbia, Volume 1, Fifteenth Edition, 1990 —

Page 290 —Paragraph 103, line 1

Delete: 2.4 m (8 ft)

Replace by: 2.6 m (9 ft)

(P25/98)

Page 290 —Paragraph 104, line 4

Delete: 2.7 m (89 ft)

Replace by: 2.9 m (10 ft)

(P25/98)

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

386 G5426	<b>Point Atkinson</b>	N. point of entrance to Burrard Inlet. 49 19 50 123 15 48	Fl(2) W 5s	32.9	<b>20</b>	White hexagonal tower, with 6 buttresses. 12.6	Flash 0.25 s; eclipse 0.75 s; flash 0.25 s; eclipse 3.75 s. Emergency light. Year round. Delete Radio beacon.
							<b>Horn</b> - Blast 2s; sil. 3s; blast 2s; sil. 3s; blast 2s; sil. 48s. <b>Chart:3481</b> <b>1528/98</b>

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

Navigating Officer or Observer: \_\_\_\_\_ Captain: \_\_\_\_\_

Ship (or address) \_\_\_\_\_

If Merchant Vessel add Line or Company with Head Office address: \_\_\_\_\_

General locality: \_\_\_\_\_

Subject: \_\_\_\_\_

Approx. position: \_\_\_\_\_ Lat. \_\_\_\_\_ Long. \_\_\_\_\_

Chart No. used to plot: \_\_\_\_\_ (Corrected to N/N No. \_\_\_\_\_ of 19 \_\_\_\_ ) \_\_\_\_\_ Publications affected: (Quote Volume and page) \_\_\_\_\_

\* Full details (Attach additional sheets as necessary)

Time (UTC) \_\_\_\_\_ Date \_\_\_\_\_

**INSTRUCTIONS:**

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 and should be confirmed in writing to:

Director General, Marine Navigation Services Directorate,  
Canadian Coast Guard,  
Department of Fisheries and Oceans,  
Ottawa, Ontario, K1A 0E6

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

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.

**OR**