



Canada

Canada

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AUGUST 27, 1999

EASTERN EDITION OF NOTICES TO MARINERS

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CANADIAN COAST GUARD

NOTICES

1500 to 1525

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Mariners are advised that all relevant Written Notices to Shipping should be kept until superseded by Notices to Mariners or through revised charts issued by the Canadian Hydrographic Service.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

Maritimes 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

Laurentian

GC\SO\COR
Notices to Shipping
Phone: (418) 648-5410
Fax: (418) 648-7244
E-Mail: OPSAVIS@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 *xiii* 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 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.

Table of DGPS Reference Stations in Canada					
Station Name	Id. Nos of reference stations	DGPS Station ID	Geog. Position Latitude Longitude	Frequency [kHz]	Bit/s
Cape Race, NFLD	338,339	940	46 46 N 53 11 W	315	200
Cape Ray, NFLD	340,341	942	47 38 N 59 14 W	290	200
Cape Norman, NFLD	342,343	944	51 30 N 55 49 W	310	200
Rigolet, NFLD	344,345	946	54 15 N 58 30 W	299	200
Partridge Island, NB	326,327	939	45 14 N 66 03 W	295	200
Pt. Escuminiac, NB	332,333	936	47 04 N 64 48 W	319	200
Fox Island, NS	336,337	934	45 20 N 61 05 W	307	200
Western Head, NS	334,335	935	43 59 N 64 40 W	312	200
St.-Jean-sur-Richelieu, QC	312,313	929	45 19 N 73 19 W	296	200
Lauzon, QC	316,317	927	46 49 N 71 10 W	309	200
Riviere du Loup, QC	318,319	926	47 46 N 69 36 W	300	200
Moisie, QC	320,321	925	50 12 N 66 07 W	313	200
Warton, ON	310,311	918	44 45 N 81 07 W	286	200
Cardinal, ON	308,309	919	44 47 N 75 25 W	306	200
Alert Bay, BC	300,301	909	50 35 N 126 55 W	309	200
Amphritrite Pt., BC	302,303	908	48 55 N 125 33 W	315	200
Richmond, BC	304,305	907	49 11 N 123 07 W	320	200
Sandspit, BC	306,307	906	53 14 N	300	200

			131 49 W		
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DGPS RECEIVER - WARNING

The Canadian Coast Guard's Differential Global Positioning System (DGPS) broadcast contains built in health information designed to alert a DGPS user receiver of an out of tolerance or fault condition. During testing, it was found that some user DGPS receivers did not process the health information properly. Improper processing by user equipment can result in incorrect positions.

Please contact your DGPS manufacturer or supplier to ensure that your receiver is capable of processing the DGPS Reference Station Health information correctly.

DGPS USER ALERT

The Canadian Coast Guard received reports in March 97 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.

DISCREPANCY REPORT FOR DGPS USERS

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.

GPS "ROLLOVER" AUGUST 1999

The Global Positioning System accounts for time by using a number for every week the service is in operation and accounts for the seconds within each numeric week. It counts weeks using a starting point of midnight (0000) on the evening of January 5, 1980 / morning of January 6, 1980 (UTC), and has increased its count by 1 for each week since then. Both week and seconds are broadcast as part of the GPS message provided by the satellites and are used by receivers in their computations. The GPS week number field in this message can only provide for numbers up to 1024 which means that, at the completion of the week 1023, the week number field will roll over from 1023 back to 0. This will occur at midnight 21-22 August 1999. On 22 August 1999, unless repaired, many GPS receivers will claim that it is 6 January 1980.

It will be the responsibility of the user to account for this changeover, the satellite themselves will simply start broadcasting the new week number. How it will affect your particular GPS unit will depend on what brand and model of receiver you have. Some receivers may merely display inaccurate date information, but others may also calculate incorrect navigation information or might stop providing positions. If the rollover hasn't been taken into account at the time your GPS receiver was designed and built, then the unit might have problems. Some units will require a software upgrade. Mariners are advised to consult with the manufacturers of their receiver's compliance to GPS rollover.

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'utilisateur

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: _____
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: _____

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

User equipment informations / Renseignements sur l'équipement

GPS receiver / Récepteur GPS : Make / Fabricant: _____ Model: _____
DGPS beacon receiver / Démodulateur DGPS : Make / Fabricant : 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 / Fabricant: _____ 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



Position : 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.

KTS : Wind speed in knots / Vitesse du vent en noeuds.

N.M. : Visibility in Nautical Miles / Visibilité en milles nautiques.

Freq. kHz : Frequency in kilohertz / Fréquence en kilohertz .

SS : Signal strength in decibel / Force de signal en décibel.

SNR : Signal to noise ratio in decibel / Rapport signal-bruit en décibel .

DOP (dilution of precision) : 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

SVCEI / ECDIS : 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.

NEWFOUNDLAND 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

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:

Aids to Navigation Superintendent
Department of Fisheries & Oceans
Canadian Coast Guard Directorate
P.O. Box 5667
St. John's, NFLD.
A1C 5X1

MARITIMES 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 MARITIMES REGION ON APRIL 1, 1997.

MEASURES
1) Privatization of aids systems in pleasure craft channels and/or conversion of some lighted buoys to unlighted buoys and removal of some aids in pleasure craft channels.
2) Privatization of aids systems in inadequately and uncharted waters and where there is a low volume of users.
3) Aids to navigation systems in Saint-John and Yarmouth Harbours will be restructured to meet national standards.
4) Decommissioning of some light stations (major reference lights) and downsizing of others to minor lights.
5) Discontinuance of some fog horns.
6) Removal of some coastal fixed and floating aids.

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:

Regional Superintendent
Aids to Navigation
P.O. Box 1000
Dartmouth, N.S.
B2Y 3Z8
(902) 426-3151

LAURENTIAN REGION

The Canadian Coast Guard is planning to further modernize its marine aids to navigation service. During the period between 1997 and year 2000, these changes will include levels of service adjustments to meet the national standards as well as the reduction of 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.

The following table shows an update of changes already implemented in 1997/98 and hypothetical service cuts considered until year 2000.

IDENTITY OF MEASURES	97/98	98/99	99/00
1) <u>Introduction of a DGPS service (5 stations)</u>	5	-	-
2a) <u>25% reduction of main commercial channel buoy service (79 lighted buoys removed and 75 changed for unlighted spar buoys).</u>	79 buoys removed; 56 changed for unlit	19 buoys to be changed (unlit)	-
2b) <u>5 % reduction of main commercial channel buoy service (29 lighted buoys changed for unlighted spar buoys)</u>	-	29	29
3) <u>Removal or privatization of 12 major reference lights in commercial and/or fishing channels</u>	8 (one will no longer be removed)	3	-
4) <u>Privatization or removal of 272 aids to navigation (unique users and/or in inadequately charted waters)</u>	187	85	-
5) <u>33% reduction (50) of reference lights or fog signals in commercial and/or fishing channels</u>	6 (2 fixed aids + 4 fog signals)	25	19
6) <u>Removal of 20 fixed aids or fog signals in pleasure craft channels</u>	5 (including 2 fog signals)	-	15

NOTE: - measures for 1997/98 and 1998/99 will be implemented after adjustment of *Levels of service*
 - measures for 1999/2000 will be implemented after adjustment of *Levels of service* and/or according to availability of DGPS/ECDIS technologies.

In the following month, more details about these changes will be provided by *Notices to Shipping* and *Notices to Mariners*. The Canadian Coast Guard will delay implementation of measures allowing users enough time to comment on planned changes. Further *Notices to Shipping* and *Notices to Mariners* will be issued when changes are implemented.

Mariners and representatives of users groups wishing to transmit their comments or recommendations on this Notice may do so by writing to:

AIDS TO NAVIGATION SUPERINTENDENT
 101 CHAMPLAIN BOULEVARD, QUÉBEC (QUÉ), G1K 7Y7

CENTRAL & ARCTIC REGION

Aids Modernization consultations are continuing throughout the Central and Arctic Region of the Canadian Coast Guard. Mariners are urged to continue to read and monitor Notices to Shipping and Notices to Mariners for the most recent concerning adjustments to aids to navigation. You may also access the Central and Arctic Website at www.ccg-gcc.gc.ca/cen-arc/main.htm for further information.

Mariners and representatives of user groups seeking clarification, having questions, or wishing to provide comments or recommendations concerning any aids to navigation notice may to contact:

Superintendent Marine Aids Program
Central and Arctic Region
201 Front Street North, Suite 703
Sarnia, Ontario, N7T 8B1
Telephone (519) 383-1859 or (519) 383-1861
Facsimile (519) 383-1989

MONTHLY EDITION OF NOTICES TO MARINERS

MAILING LIST CHANGES

Chief, Information and Publications,
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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***1523 CANADIAN HYDROGRAPHIC SERVICE - Charts.**

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<u>1. New editions.</u>					
<u>ST. LAWRENCE RIVER/FLEUVE SAINT-LAURENT</u>					
1233	Cap aux Oies à/to Sault-au-Cochon	1:50 000	May. 28/99	1	\$20.00
<u>ST. LAWRENCE SEAWAY/VOIE MARITIME DU SAINT-LAURENT</u>					
1400	St. Lawrence Seaway/Voie Maritime du Saint-Laurent -Montréal to/à Lake/lac Ontario	1:25 000	June 25/99	1	20.00
<u>LAKE SUPERIOR/LAC SUPÉRIEUR</u>					
LC 2309	Cape Gargantua to/à Otter Head	1:96 000	July 23/99	3	20.00
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NOTE: This chart incorporates and cancels Notice 553(P)/92.					
<u>GULF OF ST. LAWRENCE/GOLFE DU SAINT-LAURENT</u>					
4474	Îles Bun à/to Baie des Moutons	1:36 500	May 28/99	1	20.00
<u>NEWFOUNDLAND/TERRE-NEUVE</u>					
4644	Bay d'Espoir and Hermitage Bay	1:50 000	June 25/99	1	20.00
NOTE: This chart is affected by Notice 765(T)98 and it incorporates and cancels Notice 154(P)/96.					

2. Permanently withdrawn.

Chart	Title	On publication of chart
4609	HARBOURS AND ANCHORAGES IN THE SOUTHERN PORTION OF NEWFOUNDLAND	4644

(AMA8035-10-35)

(DFO-H99-099)

***1524 CANADIAN HYDROGRAPHIC SERVICE - Raster 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
 Facsimile: 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	DATED	CAT #	PRICE
<u>1. New charts.</u>				
<u>North Atlantic Ocean/Océan Atlantique Nord</u>				
4001R/M	Gulf of Maine to Strait of Belle Isle/auDéroit de Belle Isle	Dec. 01/95		See Note (2)
5001R/M	Labrador Sea/Mer du Labrador	Nov. 04/94		See Note (2)
<u>Rainy Lake/Lac à La Pluie</u>				
6110R/M	Northern Redgut Bay	Nov. 17/95		See Note (2)
Lake of the Woods/Lac des bois				
6215R/M	Basil Channel to/à Sturgeon Channel	May 08/92		See Note (2)
<u>Lake Winnipeg/Lac Winnipeg</u>				
6243R/M	Winnipeg River and Approaches	Nov. 17/95		See Note (2)
<u>2. New editions.</u>				
<u>St. Lawrence River/Fleuve Saint-Laurent</u>				
1234R/M	Cap de la Tête au Chien à/to Cap aux Oies	July 24/98		See Note (2)
1314R/M	Donnacona à/to Batiscan	Sept. 04/98		See Note (2)
1316R/M	Fleuve Saint-Laurent/St. Lawrence River - Port de Québec	Feb. 26/99		See Note (2)
(AMA8035-10-35)			(DFO-H99-100)	

***1521 CANADIAN COAST GUARD PUBLICATIONS - New edition of the Annual Edition 1999.**

The 1999 edition of the Annual Edition of Notices to Mariners has been published.

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

Tel: (613) 998-4931
 Fax: (613) 998-1217
 E-Mail: chs_sales@dfo-mpo.gc.ca

Internet: <http://www.chs-shc.dfo-mpo.gc.ca>
 or
 through your authorized Canadian Hydrographic Service Chart Dealer.

(M2204-390)

(CCG-H99-061)

***1522 CANADIAN COAST GUARD PUBLICATIONS - New edition of Inland Waters List of lights, buoys and fog signals - 1999.**

The 1999 edition of the Inland Waters List of lights, buoys and fog signals has been published. Information contained in Notices to Mariners up to and including monthly edition No. 4 of 1999 has been embodied in this publication. The price of this publication is \$19.95.

Appendix C, Section V, of this monthly edition of Notices to Mariners lists 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@dfo-mpo.gc.ca

Internet: <http://www.chs-shc.dfo-mpo.gc.ca>
 or
 through your authorized Canadian Hydrographic Service Chart Dealer.

(M2204-396)

(CCG-H99-063)

***1519 CANADA - LORAN-C lattices on Nautical Charts.**

Reference: Notice 342/97 cancelled.

The Canadian Hydrographic Service will no longer be portraying LORAN-C lattices on future printings of Canadian nautical charts. Lattices on existing charts will remain valid.

(AMA8035-10-1)

(DFO-H99-096)

***1518 CANADIAN HYDROGRAPHIC SERVICE - Information about CHS chart dealers.**

1 NEWLY APPOINTED CHART DEALERS	
Lindstrom Marine Ltd. dba The Marine Store Box 591 245 Kenneth Street Duncan, BC V9L 3X9	Windsor Company LLC. dba The Map Centre 2611 University Avenue San Diego, CA USA 92104
SRS Book Boutique & Gifts Inc. #126 – 1959 – 152 nd Street Windsor Square Surrey, BC V4A 9E3	Critter Cove Marine Group PO Box 1118 410 Chamiss Crescent Gold River, BC V0P 1G0
Britmar Marine Ltd. 179 Harbour Avenue North Vancouver, BC V7J 2E7 Tel: (604) 983-4303 Fax: (604) 983-4313	
2 DEALER ADDRESS CHANGE	
OLD ADDRESS	NEW ADDRESS
Budget Marine Sales 7850 – 6 th Street Burnaby, BC V3N 3N3 Tel: (604) 524-1575 Fax: (604) 524-1575 Email: budget@helix.net	Budget Marine Sales 7850 – 6 th Street Burnaby, BC V3N 3N3 Tel: (604) 524-1575 Fax: (604) 524-4091 Email: budget@helix.net
Mosaic Enterprises Ltd. 1420 Saint Paul Street Kelowna, BC V1Y 2E6 Tel: (250) 763-4418, 1-800-663-1225 Fax: (250) 763-5211	Mosaic Enterprises Ltd. 411 Bernard Avenue Kelowna, BC V1Y 6N8 Tel: (250) 463-4418, 1-800-663-1225 Fax: (250) 763-5211
MK Bay Marina, Minette Bay Road PO Box 220 Kitimat, BC V8C 2G7 Tel: (250) 632-6401 Fax: (250) 632-6889 Email: wdevins@sno.net	MK Bay Marina, Minette Bay Road PO Box 220 Kitimat, BC V8C 2G7 Tel: (250) 632-6401 Fax: (250) 632-6889 Email: mkbay@sno.net
Oyster Harbour Marine Services Ltd. Rocky Creek Road, RR #1 Ladysmith, BC V0R 2E0 Tel: (250) 245-8233	Oyster Harbour Marine Services Ltd. Rocky Creek Road, RR #1 Ladysmith, BC V0R 2E0 Tel: (250) 245-8233 Fax: (250) 245-2284

Laminex Systems Ltd. 5364 Kenwill Drive Nanaimo, BC V9T 5Z9 Tel: (250) 754-3261 Fax: (250) 753-6351	Laminex Systems Ltd. 5364 Kenwill Drive Nanaimo, BC V9T 5Z9 Tel: (250) 751-1142 Fax: (250) 751-1142
Nanaimo Marine Centre 1040 Stewart Avenue Nanaimo, BC V9S 4C9 Tel: (250) 751-1142 Fax: (250) 751-1142	Nanaimo Marine Centre 1040 Stewart Avenue Nanaimo, BC V9S 4C9 Tel: (250) 753-1244 Fax: (250) 754-1305
Nanaimo Maps & Charts 8 Church Street Nanaimo, BC V9R 5H4 Tel: (250) 754-2513 Fax: (250) 754-2313	Nanaimo Maps & Charts 8 Church Street Nanaimo, BC V9R 5H4 Tel: (250) 754-2513, 1-800-665-2513 Fax: (250) 754-2313 Email: nanmaps@island.net
Island Cruising 2B – 9851 Seaport Place Sidney, BC V8L 4X3 Tel: (250) 656-7070 Fax: (250) 656-7060 Email: cruising@islandnet.com	Island Cruising #2 – 9835 Seaport Place Sidney, BC V8L 4X3 Tel: (250) 656-7070 Fax: (250) 656-7070 Email: cruising@islandnet.com
Tofino Sea Kayaking Company 320 Main Street, PO Box 620 Tofino, BC V0R 2Z0 Tel: (250) 725-4222 Fax: (250) 725-2070	Tofino Sea Kayaking Company 320 Main Street, PO Box 620 Tofino, BC V0R 2Z0 Tel: (250) 725-4222 Fax: (250) 725-2070 Tel/Fax: 1-800-TOFINO-4
Steveston Marine & Hardware 1815 Pine Street Vancouver, BC V6J 3C8 Tel: (604) 732-6220 Fax: (604) 732-6216	Steveston Marine & Hardware 1603 W 3 rd Street Vancouver, BC V6J 1K1 Tel: (604) 733-7031 Fax: (604) 732-6216 Email: stevemar@smartt.com
Alberta Environmental Protection Maps & Publication Distribution 14745 – 122 nd Avenue Edmonton, AB T5L 2W4 Tel: (403) 422-1053 Fax: (403) 422-0896 Email: linda.king@gov.ab.ca	Alberta Environmental Protection Maps & Publication Distribution 14745 – 122 nd Avenue Edmonton, AB T5L 2W4 Tel: (780) 422-1053 Fax: (780) 422-0896 Email: linda.king@gov.ab.ca
Map Town, (Top Art Photographic Ltd.) 10815 – 100 th Avenue Edmonton, AB T5J 4X4 Tel: (403) 429-2600 Fax: (403) 426-7573 Email: mapstore@planet.eon.net	Map Town, (Top Art Photographic Ltd.) 10344 – 105 Street Edmonton, AB T5J 1E6 Tel: (780) 429-2600 Fax: (780) 426-7573 Email: mapstore@planet.eon.net

Seward Marine Ventures Inc. 201 – 3 rd Avenue, PO Box 1315 Seward, AK USA 99664 Tel: (907) 224-3102 Fax: (907) 224-8847 Email: andersontugs@attmail.com	Seward Marine Ventures Inc. 201 – 3 rd Avenue, PO Box 1269 Seward, AK USA 99664 Tel: (907) 224-3102 Fax: (907) 224-8847 Email: northlandbks@attmail.com
Doc Freeman's Inc. 999 N. Northlake Way, PO Box 300314 Seattle, WA USA 98103-8883 Tel: (206) 633-1500 Fax: (206) 634-2943	Doc Freeman's Inc 1401 NW Leary Way, PO Box 70729 Seattle, WA USA 98107-1529 Tel: (206) 633-1500 Fax: (206) 634-2943
Cornes & Co. Ltd. 273 Yamashita-Cho Naka-Ku, 231-0023 Yokohama, Japan Tel: 81-45-650-1380 Fax: 81-45-664-6516 Email: yokohama@cornes.co.jp	Cornes & Co. Ltd. 273 Yamashita-Cho Naka-Ku, 231-0023 Yokohama, Japan Tel: 81-45-650-1380 Fax: 81-45-664-6516 Email: chart@ykh.cornes.co.jp
3 THE FOLLOWING ARE NO LONGER AUTHORIZED CHS CHART DEALERS	
Sea Trek Sports Ltd. 9813 Third Street Sidney, BC V8L 3A6 Tel: (250) 656-9888	Sunset Marine Ltd. 7124 Thunder Bay Street Powell River, BC V8A 1E6 Tel: (604) 485-4727 Fax: (604) 485-2703
Uncle Walter's Emporium 524 – 1 st Avenue PO Box 924 Ladysmith, BC V0R 2E0 Tel: (250) 245-7331 Fax: (250) 245-7307	Map Centre Inc. 2611 University Avenue San Diego, CA USA 92104-2894 Tel: (619) 291-3830 Fax: (619) 291-3840 Email: Gayla@mapcentre.com
Edwards Marine Inc. 20460 Langley By-Pass Langley, BC V3A 6K8 Tel: (604) 530-5191 Fax: (604) 530-7181	Metsker Maps of Bellevue 14150 N.E. 20 th Street Bellevue, WA USA 98007 Tel: (425) 746-3200 Fax: (425) 746-3820
(AMA8035-10-35)	(DFO-H99-95)

***1520 CANADIAN HYDROGRAPHIC SERVICE - Cumulative chart correction list.**

The accompanying correction list is a cumulative listing of charts affected by Notices to Mariners from 29-April-99 to 27-August-99.	
Chart No.	Edition and Notices to Mariners Numbers
1220	29(1323/99)
L/C 1221	27(1300/99 New Edition)

1230	22(945/99), 21(925/99)
L/C 1234	23(1104/99)
1310	28(1315/99), 22(953/99 New Edition), 21(931/99)
1312	34(1509/99),21(933/99),19(914/99),18(766/99 New Edition)
1313	34(1509/99)
1315	20(916/99)
1316	22(953/99 New Edition)
1338	35(1516/99)
1410	33(1505/99), 19(910/99)
1411	29(1337/99)
1412	29(1324/99)
1413	33(1504/99)
1433	27(1300/99 New Carte)
1434	33(1504/99)
2042	29(1333/99)
L/C 2064	22(953/99 New Edition)
2067	22(952/99)
L/C 2077	27(1300/99 New Edition)
2085	29(1332/99)
L/C 2100	18(766/99 New Edition)
2222	29(1331/99)
2239	23(1113/99)
2251	23(1111/99)
2268	22(938/99)
L/C 2284	23(1112/99)
2289	23(1113/99)
L/C 2309	22(951/99)
2311	27(1300/99 New Edition)
2314	27(1300/99 New Edition)
L/C 3002	20(917/99)
3440	27(1305/99), 18(766/99 New Edition)
3441	21(932/99)
3443	29(1321/99)
3458	29(1321/99)
L/C 3461	27(1305/99)
L/C 3462	27(1305/99), 21(932/99)
L/C 3463	29(1321/99)
3481	30(1340/99), 29(1318/99)
3490	27(1312/99)
3491	29(1318/99)
3492	31(1343/99)
3493	30(1340/99), 18(766/99 New Edition)
3494	18(766/99 New Edition)
3495	18(766/99 New Edition)
3545	23(1107/99, 1103/99)
3546	23(1107/99, 1103/99)
3548	23(1102/99)
3601	27(1305/99)
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3711	33(1507/99)
3724	20(917/99)
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3807	22(953/99 New Edition)
L/C 3902	20(917/99)
3960	27(1300/99 Reprint)

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4386	26(1131/99), 19(908/99)
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L/C 4404	33(1503/99), 25(1124/99), 24(1115/99)
4426	29(1322/99)
L/C 4451	25(1117/99)
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L/C 4486	29(1322/99), 22(953/99 New Edition)
4491	20(919/99)
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4531	29(1339/99)
4535	29(1334/99)
4595	18(758/99)
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4619	18(766/99 New Edition)
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L/C 4700	19(901/99)
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L/C 4730	29(1319/99), 26(1127/99), 19(901/99)
4732	19(901/99)
L/C 4846	21(924/99), 18(763/99)
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4855	26(1136/99)
4858	29(1334/99), 18(766/99 New Chart)
4863	27(1300/99 New Chart)
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5135	19(901/99)
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L/C 8047	29(1319/99), 26(1127/99), 19(901/99)
L/C 8048	19(901/99)
(AMA8035-10-35)	(DFO-H99-097)

***1511 NEWFOUNDLAND, SOUTH COAST - ST. PIERRE BANK - Wreck.**

Charts (Last correction) - LC 4016(NAD 27)(1)(1737/98) - 4047(NAD 83)(NewEdn., Oct./98)

1. Add non-dangerous wreck, depth 46°06'21" N 55°50'52" W
unknown

NOTE: Digital data products 4016R/M, 4047R/M, 76091(4047) and 76274(4016) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-A99-013)

***1514 NEWFOUNDLAND, SOUTH COAST - ISLE AUX MORTS SHOALS - Buoys.**

Chart (Last correction) - 4640(1,2)(120/99)

1. Add red lighted spar buoy FI R, marked 47°34'37" N 59°00'27" W
QW4

2. Add red lighted spar buoy FI R, marked 47 34 03 N 59 02 00 W
QW2

NOTE: Digital data products 4640R/M and 76056(4640) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-2)

(CCG-N99-008,009, DFO-A99-054)

***1502 NOVA SCOTIA - STRAIT OF CANSO - SHIP POINT - Gas pipelines.**

Charts (Last correction) - 4306(NAD 27)(1,4,5)(808/96) - 4306(Inset, Point Upper to à Ship Point)
(NAD 27)(2,6)(808/96) - LC 4335(NAD 83)(3)(1304/99)

1. Add submarine pipeline GasGaz joining 45°33'41".4 N 61°20'56" W
and 45 34 01.7 N 61 20 02.7 W

2. Add submarine pipeline GasGaz joining 45 33 51.3 N 61 20 30 W
and 45 34 01.7 N 61 20 02.7 W

3. Add submarine pipeline GasGaz joining 45 33 42 N 61 20 53 W
and 45 34 02 N 61 20 00 W

4. Add Note 45 34 33 N 61 24 00 W

GAS PIPELINES

Gas pipelines and wells contain natural gas under pressure and damage to these installations could create an immediate fire hazard. Mariners are cautioned not to anchor or trawl near pipelines or wellheads.

GAZODUCS

Les gazoducs et les puits à gaz

contiennent du gaz sous pression et du dommage à ces installations pourraient créer un danger de feu immédiat. Les navires ne devraient ni mouiller ni chaluter près de pipelines ou de têtes de puits.

5. Add note 45°33'42' N 61°21'17" W (approx.)
See/Voir note GAS
PIPELINES/GAZODUCS

6. Add note 45 33 57 N 61 20 30 W (approx.)
See/Voir note GAS
PIPELINES/GAZODUCS

NOTE: Digital data products 4306R/M, 4335R/M, 76180(4335), 76281(4306) and 76283(4306) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-A99-062)

***1503 PRINCE EDWARD ISLAND, SOUTH SIDE - WOOD ISLANDS - Light.**

Charts (Last correction) - LC 4404(NAD 27)(1,2)(1124/99) - 4483(Inset, Wood Islands Ferry Terminal/Terminal du Traversier)(NAD 27)(3)(1115/99)

Reference: Notice 1115/99.

On certain copies.

1. Amend Q G to read F Y 45°56'54" N 62°45'06" W
2. Amend Iso G to read F Y 45 57 00 N 62 45 06 W
3. Amend Iso G 4s 37ft to read F Y 37ft 45 56 59.5 N 62 45 06.7 W

NOTE: Digital data products 4404R/M, 4483R/M and 76155(4404) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-H99-090)

***1515 GULF OF ST. LAWRENCE, NORTH SHORE - SHIPPEGAN - CARAQUET - BATHURST - Buoys and lights.**

Charts (Last correction) - 4920(Plan,Bathurst Harbour)(NAD 83)(1)(1308/99) - 4920(Plan,Shippegan Harbour)(NAD 83)(2-4)(1308/99) - LC 4913(NAD 83)(5,6)(1308/99)

1. Delete range lights 47°37'03" N 65°38'38" W (approx.)
2. Delete red light buoy TJ10 47 43 03.3 N 64 39 52.4 W
3. Add red spar buoy, marked TJ10 47 43 00.4 N 64 39 48.7 W
4. Reposition red light buoy TJ30 from 47 43 31.4 N 64 39 59.2 W
to 47 43 32.7 N 64 40 00 W

5. Amend front range light F Y to read F 47 47 46.8 N 64 56 12.9 W
6. Amend rear range light F Y to read F 47 47 42.2 N 64 56 30.8 W

NOTE: Digital data products 4913R/M, 4920R/M, 76269(4920), 76270(4920) and 76275(4913) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-7-6; 5-6) (CCG-G98-009,010,086,087,095,096,G99-035, DFO-A98-122)

***1517 NOVA SCOTIA, SOUTHEAST COAST - SHELBURNE HARBOUR - OFF SANDY POINT - Light.**

Charts (Last correction) - 4209(Plan,Shelburne Harbour)(NAD 83)(1)(1139/99) - LC 4241(NAD 83)(1)(1139/99)

1. Replace private light with tower symbol and legend Lt Ho/Phare Aband 43°41'29".3 N 65°19'31".5 W

NOTE: Digital data products 4209R/M, 4241R/M, 76039(4209) and 76047(4241) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-7-7) (CCG-F99-021, DFO-A99-065)

***1500 BAY OF FUNDY - SAINT JOHN RIVER - PALMER POINT - Light.**

Chart - 4141(Sheet 2)(Grand Bay to àEvandale including/y compris Belleisle Bay)(NAD 83)(1)

1. Delete light 45°34'33".5 N 66°01'08".8 W

NOTE: Digital data products 4141R/M and 76251(4141) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-7-7) (CCG-F99-025, DFO-A99-059)

1510 BAY OF FUNDY - CAMPOBELLO ISLAND - OFF POPES FOLLY - Buoy.

Chart (Last correction) - 4114(NAD 83)(1)(208/97)

1. Reposition green can buoy 9 from 44°52'10".3 N 66°58'59".1 W
to 44 52 11.1 N 66 58 58.3 W

NOTE: Digital data products 4114R/M and 76033(4114) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-2) (US-W98-030)

1508 UNITED STATES, EAST COAST - GULF OF MAINE - FUNDIAN CHANNEL - Buoy.

Charts (Last correction) - LC 4011(NAD 83)(1)(1129/99) - LC 8005(NAD 27)(1)(1130/99) -
LC 4003(NAD 27)(1)(1137/99)

1. Delete yellow light buoy Priv 42°27'00" N 67°45'06" W

NOTE: Digital data products 4003R/M, 4011R/M, 8005R/M, 76019(4011) and 76140(4003) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-2)

(US-W98-023)

1512 UNITED STATES, EAST COAST - GEORGES BANK - Wreck.

Chart (Last correction) - LC 8005(NAD 27)(1)(1508/99)

1. Add non-dangerous wreck, depth 41°35'54" N 68°59'00" W
unknown

NOTE: Digital data products 8005R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-2)

(US-W97-043)

*1501(P) QUÉBEC - RIVIÈRE SAGUENAY - SAINT-FULGENCE - Shoal depth.

Chart (Which will be affected) - 1202(Continuation A)(NAD 27)(1)

Reference: Notice 704/99.

1. Replace drying height of 1 fathom with a 48°26'36".4 N 70°53'08".6 W
drying height of 5 feet

NOTE: Digital data products 1202R/M and 79094(1202) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q99-071)

*1513(P) ST. LAWRENCE RIVER - SAINTE-PÉTRONILLE - Obstruction.

Chart (Which will be affected) - 1317(Continuation A)(NAD 83)(1)

Reference: Notice 119(P)/99 cancelled.

1. Add obstruction and legendObstn 46°50'42" N 71°06'54" W

NOTE: (1) Digital data products 1317R/M and 79082(1317) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.
(2) Additional information will be made available at a later date.

(AMA8035-10-35)

(DFO-H99-094)

***1509 ST. LAWRENCE RIVER - LAC SAINT-PIERRE - Spoil ground.**

Charts (Last correction) - 1312(NAD 83)(1,3-7)(933/99) - 1313(NAD 83)(2,3)(311/99)

1. Add	spoil ground	joining	46°15'27" N 72°45'04".9 W 46 15 05.5 N 72 44 44.1 W 46 14 29.3 N 72 46 01.6 W 46 14 50.8 N 72 46 22.4 W
		and	46 15 27 N 72 45 04.9 W
2. Add	spoil ground	joining	46 15 23.8 N 72 45 11.9 W 46 15 27 N 72 45 04.9 W 46 15 05.5 N 72 44 44.1 W
		and	46 14 52.5 N 72 45 11.9 W
3. Delete	3 metres		46 14 59.9 N 72 44 56.8 W
4. Delete	3 metres		46 14 46.9 N 72 46 18.7 W
5. Delete	3 metres 5 decimetres		46 15 02.3 N 72 45 47.8 W
6. Delete	3 metres 3 decimetres		46 15 05.4 N 72 45 18.2 W
7. Delete	2 metres 6 decimetres		46 14 50.7 N 72 45 19 W

NOTE: Digital data products 1312R/M, 1313R/M, 79014(1313) and 79129(1312) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q99-066)

***1516 ST. LAWRENCE RIVER - LANORAIE - Scientific moorings.**

Chart (Last correction) - 1338(NAD 27)(1-3)(506/99)

1. Delete	submerged pile of 20 feet		45°57'18" N 73°12'37" W (approx.)
2. Delete	submerged pile of 13 feet		45 57 26 N 73 12 41 W (approx.)
3. Delete	submerged pile of 10 feet		45°57'29" N 73°12'52" W (approx.)

NOTE: (1) These installations have been removed.
(2) Digital data products 1338R/M and 79010(1338) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q99-072)

***1506 QUÉBEC - RIVIÈRE DES PRAIRIES - LACHENAIE - Outfall.**

Chart - 1509(Compartment E-F)(NAD 83)(1)

1. Add	outfall	joining and	45°42'14".1 N 73°30'59".1 W 45 42 08.7 N 73 30 57.4 W
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NOTE: Digital data products 1509R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q99-070)

***1505 ST. LAWRENCE SEAWAY - LAC SAINT-LOUIS - BEACONSFIELD - Depth.**

Chart (Last correction) - 1410(NAD 83)(1)(910/99)

Reference: Notice 910/99.

1. Replace	1 metre 1 decimetre with 4 feet over an artificial feature	45°24'49".5 N 73°52'52".7 W
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NOTE: Digital data products 1410R/M and 79045(1410) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q99-067)

***1504 ST. LAWRENCE RIVER - LAKE ST. FRANCIS - Charts affected by New Chart 1433.**

Charts (Last correction) - 1413(NAD 27)(1)(163/99) - 1434(Compartment A-B)(NAD 83)(2)(165/99)

1. Amend	Adjoining Chart/Carte adjacente 1414 to read Adjoining Chart/Carte adjacente 1433	on left border of chart at 44°59'30" N (approx.)
2. Amend	Adjoining Chart/Carte adjacente 1414 to read Adjoining Chart/Carte adjacente 1433	on right border of chart at 44°57'30" N (approx.)

NOTE: Digital data products 1413R/M, 1434R/M, 73029(1413), 73030(1413) and 73111(1434) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-H99-091)

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

ATL 101 — Newfoundland, Northeast and East Coasts, First Edition, 1997

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Page 57 — After paragraph 435

Add: ^{435.1} A Canadian Coast Guard inshore rescue boat, 24 feet (7.3 m) long is stationed at Lewisporte and is available for **search and rescue** 12 hours each day from mid May to mid September and covering the area south of a line drawn from Long Point (Twillingate) to Fortune Harbour in Notre Dame Bay. Contact may be made on channel 16 (156.8 MHz), channel 9 GRS (citizen's band), or through MRSC St. John's via the nearest coastal radio station or by any other available means.

(N23/99)

ATL 103 — Newfoundland, Southwest Coast, First Edition, 1995 —

Page 58 — Paragraph 160, last line

Add: Starboard hand light spar **buoy** QW2 (158.72) is moored about 0.4 mile WSW of White Head. Starboard hand light spar **buoy** QW4 (158.71) is moored about 0.1 mile north of the western tip of Isle aux Morts.

(N22/99)

ATL 112 — St. Lawrence River — Cap-Rouge to Montréal, First Edition, 1992 —

Page 4 — Paragraph 31, line 2

Delete: outer end of the above-mentioned wharf

Replace by: breakwater situated on the east side of the marina

(L38/99)

Page 4 — Paragraph 31, last line

Add: Another light (private) is shown on the outer end of the same breakwater.

(L38/99)

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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NEWFOUNDLAND

158.71	<i>Two Foot Shoal light buoy QW4</i>	47 34 37 59 00 27	<i>Fl R 4s</i>	<i>Red spar, marked "QW4".</i>	Chart:4640 1514/99
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158.72	<i>Five Foot Shoal light buoy QW2</i>	47 34 03 59 02 00	<i>Fl R 4s</i>	<i>Red spar, marked "QW2".</i>	Chart:4640 1514/99
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ATLANTIC

131	Palmer Point					Delete from List.	Chart:4141 1500/99
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363 H3764	Sandy Point					Delete from List.	Chart:4209 1517/99
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1248.6	<i>Shippegan Gully breakwater light buoy TJ10</i>					Delete from List.	Chart:4920 1515/99
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1257.8	<i>Shippegan Harbour light buoy TJ30</i>	47 43 32.7 64 40 00	<i>Q R 1s</i>	<i>Red, boat type, marked "TJ30".</i>	<i>Year round.</i> Chart:4920 1515/99
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1319.2	Pointe à Brideau range	47 46 46.8 64 56 13	F	W	7.5	Square skeleton tower, black daymark, white vertical stripe. 3.6	Seasonal.
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1319.3		248°04' 374.8m from front.	F	W	13.5	Square skeleton tower, black daymark, white vertical stripe. 12.8	Seasonal. Chart:4913 1515/99
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1337 H1604	Nepisiguit River range							Delete from List.
1338 H1604.1								Chart:4920 1515/99

APPENDIX "C"

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
44	Light buoy C10	45 14 39.5 73 59 06	Fl R 4s	.....	.....	Red, marked "C10".	Winter spar. Seasonal Chart:1411 527/99
65	Light buoy C30	45 13 20 74 05 06	Fl R 4s	.....	.....	Red, marked "C30".	Winter spar. Seasonal Chart:1411 108/99
223.5	Light buoy 48A (U.S.)	44 57 56.6 74 56 13.3	Fl R 4s	.....	.....	Red, marked "48A".	Privately operated by St. Lawrence Seaway Development Corporation. Winter spar. Seasonal Chart:1414 167/99
224	Light buoy 49 (U.S.)	44 57 49.5 74 56 29.3	Fl G 4s	.....	.....	Green, marked "49".	Winter spar. Seasonal Chart:1414 167/99
338	Light 150	On pier. 44 31 46 75 45 16.9	Fl R 4s	8.5	.....	White cylindrical tower, red top, marked "150". 3.7	Seasonal Chart:1436 532/99
491	Scotch Bonnet Island	On small island, SW. of Nicholson Island. 43 53 58 77 32 33.7	Fl W 4s	23.0	5	White skeleton tower. 19.1	Seasonal Chart:2060 Edn. 01/99
509.45	Main Harbour Channel light buoy T5	43 37 42.7 79 20 52.6	Q G 1s	.....	.....	Green, marked "T5".	Operated by the Toronto Harbour Commission. Year round. Chart:2085 1332/99
1047	Thessalon Breakwater						Delete from List. Chart:2251 1111/99
1047	Thessalon Breakwater light buoy KA2	46 15 02.6 83 33 09.3	Fl R 4s	.....	.....	Red, marked "KA2".	Chart:2251 1111/99
1097	Michipicoten Island	On NE. extremity of island. 47 45 15 85 35 45	Fl W 10s	25.6	14	White hexagonal tower. 21.6	Flash 0.5s; eclipse 9.5s Emergency light. Seasonal. Chart:2309 712/99

APPENDIX "C"

No.	Name	Position	Light Characteristics			Focal Height in m. above water	Nominal Range	Description	Remarks
		----- Latitude N. Longitude W.						----- Height in meters above ground		----- Fog Signals
1102	Otter Island	On NW. extremity of island. 48 06 43.5 86 04 00	FI	W	8s	29.6	18	White tower. 6.3	Flash every 8 s Emergency light. Seasonal. Chart:2308 712/99
1117	Battle Island	On W. end of island. 48 45 06 87 33 24	FI(3)	W	24 s	36.0	13	Tower. 13.1	Flash; eclipse 4 s; flash; eclipse 4 s; flash; eclipse 16 s Emergency light. Radar reflector. Year round. Chart:2312 712/99
1126	Lamb Island	Centre of island. 48 36 14 88 08 34	FI	W	5s	30.2	15	Tower. 12.2	Flash every 5 s. Emergency light. Year round. Chart:2312 712/99
1128	Point Porphyry	On SW. extremity of island, entrance to Black Bay. 48 20 24 88 38 54	FI	W	10s	25.0	15	Tower, white slatwork daymark. 14.6	Flash 1 s; eclipse 9 s Fixed white between flashes. Emergency light. Year round. Chart:2301 712/99
1129	Trowbridge Island	On summit of island. 48 17 34 88 52 25	FI	W	5s	34.7	16	White octagonal tower. 7.0	Flash every 5 s Emergency light. Year round. Chart:2311 712/99
1133	Welcome Island	On NE. extremity of the eastern island. 48 22 10 89 07 14	FI	W	5s	42.1	16	Square skeleton tower.	Flash every 5 s Emergency light. Year round. Chart:2314 712/99
1136	Mission Channel Entrance	At outer corner of breakwater. 48 21 00 89 12 04	FI	G	2s	13.4	8	White square tower, red upper portion. 7.6	Flash 0.5 s; eclipse 1.5 s Year round. Chart:2314 712/99
1144	Kaministiquia River Entrance	On breakwater at N. side of river entrance. 48 23 53 89 12 00	FI	R	10 s	6.7	5	Tower on a building.	Flash 4 s; eclipse 6 s Floodlit. Year round. Chart:2314 712/99
1150.3	Thunder Bay South Entrance, South	On breakwater, S. side of S. entrance. 48 24 38 89 12 18	FI	G	5s	8.2	8	Mast on building. 3.0	Flash 1 s; eclipse 4 s Floodlit. Year round. Chart:2314 712/99

APPENDIX "C"

No.	Name	Position	Light Characteristics	Focal Height in m. above water	Nominal Range	Description	Remarks
		----- Latitude N. Longitude W.				----- Height in meters above ground		----- Fog Signals
1156	Thunder Bay North Entrance South	Near N. end of S. breakwater. 48 26 38 89 10 38	Fl G 4s	9.4	13	Mast on a building. 3.6	Floodlit. Year round. Chart:2314 712/99
1264.7	Hawkesbury wharf light buoy HK4	45 37 00.4 74 36 08.9	Fl R 4s	.....	.....	Red, marked "HK4".	Privately maintained by Hawkesbury Township. Year round. Chart:1514 722/99
1264.7	Hawkesbury wharf light buoy HK4	45 37 00.2 74 36 05.6	Fl R 4s	.....	.....	Red, marked "HK4".	Privately maintained by Hawkesbury Township. Year round. Chart:1514 1114/99
1268	Light buoy H247	45 37 24.2 74 37 05.7	Fl G 4s	.....	.....	Green, marked "H247".	 Chart:1514 722/99
1284.31	PAP bifurcation light buoy	45 36 47.7 75 59 13.8	Fl R (2+1)	6s	.....	Red, green and red, marked "PAP".	Seasonal. Privately maintained by Municipalit� du village de Papineauville. Chart:1514 Edn. 02/99
1296.40	Ottawa River information light buoy	45 27 19.2 75 41 28.8	Fl Y 4s	.....	.....	White and orange marked "Casino de Hull, Quai d'accostage, Docking Facilites".	Seasonal. Privately maintained. Chart:1515 1100/99
1296.41	Rivi�re Gatineau information light buoy	45 27 23.2 75 42 02.8	Fl Y 4s	.....	.....	White and orange marked "Casino de Hull, Quai d'accostage, Docking Facilites".	Seasonal. Privately maintained. Chart:1515 1100/99
1296.42	Rivi�re Gatineau information light buoy	45 27 25.2 75 42 56.8	Fl Y 4s	.....	.....	White and orange marked "Casino de Hull, Quai d'accostage, Docking Facilites".	Seasonal. Privately maintained. Chart:1515 1100/99
1296.42	Rivi�re Gatineau information light buoy	45 27 25.2 75 42 56.8	Fl Y 4s	.....	.....	White and orange marked "Casino de Hull, Quai d'accostage, Docking Facilites".	Seasonal. Privately maintained. Chart:1515 1100/99
1299.9	Armitage Marina West	Centre pier, Port of Call Marina. 45 28 39 75 59 36	Fl R 4s	4.8	.....	White cylindrical tower, red band at top. 3.1	Year round. Operated by Port of Call Marina of Ottawa Ltd. Chart:1550 Edn. 02/99

APPENDIX "C"

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
1596.5	Bradbury River Approach light buoy DN3						Delete from List. Chart:6267 937/99
1618	Mukutawa River Entrance light buoy CM3						Delete from List. Chart:6241 936/99
1796	The Ramparts (Mile 672.4) range	NE. of Spruce Island. 66 09 13 128 57 39	F W	62.0	.....	Triangular skeleton tower, orange daymark, white vertical stripe. 6.1	Visible in line of range. Seasonal.
1797		209° 167.6m from front.	F W	64.0	.....	Triangular skeleton tower, orange daymark, white vertical stripe. 18.3	Visible in line of range. Seasonal. Chart:6421 Edn. 01/99
1797.8	Mile 715.6 range	66 32 44 129 14 22	F W	38.1	.....	Square tower, red daymark, white vertical stripe. 6.1	Visible in line of range. Seasonal.
1797.9		279° 185.9m from front.	F W	44.5	.....	Square tower, red daymark, white vertical stripe. 10.7	Visible in line of range. Seasonal. Chart:6422 Edn. 01/99
2552 H36.4	Broomfield Island Racon -. (N) X & S Band	55 40 24 79 14 18	Fl R 6s	43.9	5	Square skeleton tower, 2 fluorescent orange rectangular daymarks on E. and S. faces. 7.6	Flash 1 s; eclipse 5 s Radar reflector. Seasonal. Chart:5707 304/99
2622 H26	Churchill Harbour Radiobeacon Racon --. (G) X & S Band	On E. side of harbour. 58 46 29.1 94 11 22.2	Fl WR 6s	66.4	.....	On top of grain elevator. 61.2	Flash 1 s; eclipse 5 s Year round. Chart:5640 935/99

**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, Marine Aids,
Coast Guard,
Department of Fisheries and Oceans,
Ottawa, Ontario, K1A 0E6

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

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.