



EASTERN EDITION OF NOTICES TO MARINERS

Published monthly by the

CANADIAN COAST GUARD

NOTICES

442 to 475

CONTENTS

	Page
SEC. I Safety and General Information	1 - 7
SEC. II Chart Corrections	8 - 16
SEC. III Radio Navigation Aids Corrections	17
SEC. IV Sailing Directions and Small Craft Guide Corrections	19 - 33
SEC. V Light List Corrections	35, 37

Marine Navigation Services
Directorate
Marine Aids

RECYCLED PAPER

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

**VERY IMPORTANT NOTICE
TO ALL USERS**

MONTHLY EDITION OF NOTICES TO MARINERS

Please be advised that the following changes in the production of the monthly edition of Notices to Mariners will be implemented on June 1, 1997. These changes are a result the low usage of some of our subscribers' list as well high operating costs.

The monthly edition will now be divided in two editions.

EASTERN EDITION

This edition will be comprised of the Arctic, Newfoundland, Maritimes, Gulf & River St. Lawrence and Central areas.

WESTERN EDITION

This edition will be comprised of the Arctic and Pacific areas.

NOTE: Subscribers presently receiving the National or Regional editions will now receive either the Eastern or Western Monthly edition.

INTERNET SERVICE

We are presently in the midst of improving our new Internet site in order to offer you better distribution, format, access and search capabilities. Our Internet address is **<http://www.notmar.com>**

IMPORTANT NOTICE TO USERS

1997 SUMMARY OF TEMPORARY AND PRELIMINARY NOTICES

CANADIAN COAST GUARD PUBLICATION - Summary of Temporary and Preliminary Notices - 1997

The yearly Summary of Temporary and Preliminary Notices publication is available on demand at the following address:

Canadian Coast Guard
Marine Navigation Services
344 Slater St., 6th floor
Ottawa, Ontario
K1A 0N7

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

The publication is also available on our Internet Web Site: <http://www.notmar.com>

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.

Table of Stage 1 DGPS Reference Stations					
Station Name	Id Nos of Ref. Stations	DGPS Station ID	Geogr. Pos. Latitude Longitude	Frequency [khz]	Bits/sec.
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.

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 will 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 following address.

Director Marine Aids, 344 Slater Street, 6th floor, Ottawa, Ontario, Ontario, K1A 0N7.

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, 344 Slater Street, 6th floor, Ottawa, Ontario, K1A 0N7.

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 reçus 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 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 : 613-998-2428 attention AWAD.

2) Mail / Par la poste: Director Marine Aids
344 Slater Street, 6 th floor
Ottawa, Ontario
K1A 0N7

Canada

Legend/
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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 USER
CANADIAN COAST GUARD
MARINE AIDS MODERNIZATION PROGRAM

Marine navigational technology is changing. And client needs are changing. As a result, more and more mariners are using technologies such as the Differential Global Positioning System (DGPS) and the Electronic Chart Display Information System (ECDIS).

The Coast Guard is adjusting its aids to navigation to reflect the expanded use and availability of this new technology. To take advantage of these new systems and maintain the same level of safety in navigating their vessels as they have under the current system, mariners will need to equip their vessels with a DGPS receiver and ECDIS equipment.

The new Differential Global Positioning System will be served by 18 stations. The system will enable mariners to identify their precise position in most major southern coastal Canadian waterways, including the Great Lakes and the St. Lawrence River. It is expected that this system will be fully operational by December 1997.

National standards for the provision of aids to navigation will be revised as a result of the new technologies. As a result, many visual and aural aids will become unnecessary and will be reduced, eliminated or transferred to other authorities. Some fog horns and shore lights will be removed or scaled down. Some buoys will be discontinued in commercial shipping channels and coastal waters. Lighted buoys will be converted to unlighted buoys in a few pleasure craft channels.

The Coast Guard will also introduce new cost-saving technologies for its remaining conventional aids including five-year maintenance-free buoys, and downsized and solar powered aids at some lightstations. These changes will result in significant efficiencies. The removal of fuel tanks and diesel generators will also help ensure a cleaner environment.

In recognition of the heritage value that many communities place on lightstations, the Coast Guard is implementing an Alternative Use Program to promote the beneficial re-use of properties that are no longer required for Coast Guard operations and support their transfer to provincial, municipal or other authorities for future use.

Before decisions are finalized, the Coast Guard will consult with user groups on changes in their areas. 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.

Jacques Lorquet
Director, Marine Aids
Marine Navigation Services.

Very Important Notice to All Users

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 reprinting.

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 lightstations (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. 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 ON APRIL 1, 1997.

MEASURES
1) Introduction of DGPS
2) Service reduction on 25% (79 lighted buoys removed and 75 converted into unlighted spar buoys) of buoys in commercial channels.
3) Removal of 12 major reference lights from the existing 25.
4) Privatization of 200 aids to navigation due to low volume of users and/or inadequately charted waters.
5) Removal of 33% (50) of reference or wharf-lights.
6) Conversion of 20% (29) of lighted buoys to unlighted buoys in pleasure craft channels.
7) Removal of 20 fixed aids in pleasure craft channels.

Notices to shipping (L-3072/96, L-3117/96 and L-0107/97) and a detailed Notice to mariners (859P/96) have been published lately, 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 receive a copy of the detailed Notice to mariners (859P/96) or to provide comments/recommendations on this notice may write to:

AIDS TO NAVIGATION SUPERINTENDENT
101 CHAMPLAIN BOULEVARD, QUÉBEC (QUÉ), G1K7Y7

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.

MEASURES
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

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.

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 *iii* 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.

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 0N7

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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CANADA, EAST COAST Amendments to the Radio Aids to Marine Navigation (Atlantic and Great Lakes) publication - April 1997.	469	17
CANADIAN HYDROGRAPHIC SERVICE Charts.....	468	1-3
- Electronic Navigation Charts	466	3
- Information about CHS chart dealers	445	6,7
- Raster Electronic Navigation Charts.....	467	4,5
GREAT LAKES - ST. CLAIR RIVER - STAG ISLAND - Light buoy.	473	5
HUDSON BAY - CHURCHILL - CHURCHILL RIVER - Depth.....	464	16
LAKE ERIE - PORT COLBORNE - CASSADAY POINT - Light buoy.	461	14
LAKE HURON - GEORGIAN BAY COLLINGWOOD HARBOUR - Light buoy.	452	14
- PARRY SOUND - Horizontal datum.	444	15
- SOUTH OF BEAVERSTONE BAY - MORELAND BANK - Buoys.	459	15
LAKE HURON - WHISKEY POINT - ST. JOSEPH ISLAND - Results of survey.....	462	15
LAKE ONTARIO - BAY OF QUINTE - NAPANEE RIVER - Note.	451	11,12
LAKE SUPERIOR - NIPIGON BAY - JACKFISH BAY, SIMPSON ISLAND, MACINNES POINT - Lights to be discontinued.	450(P)	16
NEW BRUNSWICK - Changes to the buoyage system - 1997.....	471(P)	5
- SAINT JOHN RIVER - ROWANS POINT - Daymarks.	472	5
NORTHWEST TERRITORIES - RANKIN INLET - Depths.	463	16
NOVA SCOTIA, SOUTHEAST COAST Caution note.	470	8
- CHEBUCTO HEAD - Chart amendment.....	465	8,9
- COUNTRY HARBOUR - Buoys.....	456	8
ONTARIO - TRENT- SEVERN WATERWAY - OFF HORSESHOE ISLAND - Buoys.	453	14
- WIARTON - DGPS Initial Operational Service (IOS)	446(P)	6
PRINCE EDWARD ISLAND RUSTICO HARBOUR - Light buoy.	475	5
QUÉBEC - ONTARIO - OTTAWA RIVER - Chart amendments.	449	12,13
QUÉBEC - SAGUENAY RIVER - CHICOUTIMI - RIVIÈRE DU MOULIN - Pier, cables, buoys, crib and pipeline.	447	10
- OTTAWA RIVER - LAC DES DEUX MONTAGNES - Buoys.	457	11
- ÎLE AUX PINS - Crib.....	455	11
ST. LAWRENCE RIVER - BAIE-COMEAU - MARINA BAIE-COMEAU - Buoys.	442	9
- CHENAL DU BIC - CAP À L'ORIGINAL - Marine farm.	458	9
- ÎLE BICQUETTE ET BAIE DES HA! HA! - Marine farms.	454(P)	9,10
- VARENNES - Water outfall.	448	10,11
ST. LAWRENCE SEAWAY - WELLAND CANAL - ST. CATHARINES - Buoys.	460	13,14

NUMERICAL INDEX OF CANADIAN CHARTS AFFECTED

Chart No.	Notice #	Page	Chart No.	Notice #	Page	Chart No.	Notice #	Page
1209	447	10				7782	468	1-3
			LC 4227	456	8			
1223	454(P)	9,10				7783	468	1-3
			LC 4233	456	8			
1226	442	9						
			LC 4234	456	8			
LC 1236	458	9						
			LC 4236	470	8			
1310	448	10,11						
			LC 4321	456	8			
1339	448	10,11						
			LC 4385	465	8,9			
1437	468	1-3						
			4954	468	1-3			
1509	468	1-3						
			5396	463	16			
1510	455	11						
	457	11	5397	463	16			
1553	449	12,13	5427	463	16			
2006	451	11,12	5640	464	16			
2028	453	14	7081	468	1-3			
2042	460	13,14	7620	468	1-3			
LC 2120	461	14	7621	468	1-3			
2204	459	15	7630	468	1-3			
2215	452	14	7650	468	1-3			
2225	444	15	7651	468	1-3			
	468	1-3						
			7663	468	1-3			
LC 2244	459	15						
			7710	468	1-3			
LC 2245	459	15						
			7750	468	1-3			
2251	462	15						
			7776	468	1-3			
2303	450(P)	16						
			7777	468	1-3			
2304	450(P)	16						
			7778	468	1-3			
2305	450(P)	16						
			7779	468	1-3			
2312	450(P)	16						

***468 CANADIAN HYDROGRAPHIC SERVICE Charts.**

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
1. New Charts.					
<u>Northwest Territories/Territoires du Nord-Ouest</u>					
7620	Demarcation Bay to/à Liverpool Bay	1:500 000	May 2/97	4	\$20.00
	Limits : 68°48'00" N 127°26'00" W 68°48'00" N 141°30'00" W 72°00'00" N 127°26'00" W 72°00'00" N 141°30'00" W				
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
7621	Amundsen Gulf	1:500 000	May 2/97	4	20.00
	Limits: 68°46'00" N 114°30'00" W 68°46'00" N 128°34'00" W 72°00'00" N 114°30'00" W 72°00'00" N 128°34'00" W				
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
2. New Editions.					
<u>Georgian Bay/Baie Georgienne</u>					
4954	Chenal du Havre de la Grande-Entrée	1:15 000	June 20/97	3	20.00
	Note : This chart is affected by Notice 195(T)/93.				
<u>Northwest Territories/Territoires du Nord-Ouest</u>					
7663	Kugmallit Bay	1:150 000	April 11/97	2	20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
7710	Lambert Channel and/et Cache Point Channel	1:80 000	June 13/97	4	20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
7750	Cambridge Bay	1:80 000	June 13/97	4	20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
<hr/> New Editions (cont'd).					
7776	Dolphin and Union Strait	1:150 000	May 30/97	4	\$20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
7777	Coronation Gulf - Western Portion/Partie Ouest	1:150 000	May 30/97	4	20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
7778	Coronation Gulf - Eastern Portion/Partie Est	1:150 000	June 13/97	4	20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
7779	Dease Strait	1:150 000	June 13/97	4	20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				
7782	Queen Maud Gulf - Western Portion/Partie Ouest	1:150 000	June 13/97	4	20.00
7783	Queen Maud Gulf - Eastern Portion / Partie Est	1:150 000	June 13/97	4	20.00
	Note: (1) This chart is a metric chart. (2) This chart is based on North American Datum 1983 (NAD 83)				

3. Reprints.

	<u>St. Lawrence River/Fleuve Saint-Laurent</u>				
1437	Summerland Group to/à Grindstone Island	1:25 000	May 30/97	3	20:00
	<u>Québec</u>				
1509	Rivière des Prairies	1:20 000	June 27/97	3	18.00
	Note: This chart is affected by Notices 387/97 and 413/97.				
	<u>Georgian Bay/Baie Georgienne</u>				
2225	Approaches to/Approches à Parry Sound	1:20 000	July 11/97	3	20.00

4. Charts permanently withdrawn.

<u>Chart</u>	<u>Title</u>	<u>On publication of chart</u>
7081	Cape Bathurst to Cape Baring	7620, 7621

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
Charts permanently withdrawn (cont'd).					
7630	Harbour and Beaches in Amundsum Gulf			7621	
7650	Barter Island to Toker Point			7620	
7651	Toker Point to Cape Lyon and Cape Kellett			7621	
(AMA8035-10-35)				(DFO-H97-059)	

***466 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

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	SCALE	DATED	CAT #	PRICE
1. New Editions.					
	<u>Gulf of St. Lawrence/Golfe du Saint-Laurent</u>				
79004	Havre Saint-Pierre et les approches/and Approaches	-----	Jan. 31/97		See Note (2)
	NOTE: This ENC is derived from CHS Chart 4429.				
	<u>Nova Scotia/Nouvelle-Écosse</u>				
76109	Country Island to/à Barren Island	-----	Feb. 28/97		See Note (2)
	NOTE: This ENC is derived from CHS Chart 4234.				
	<u>Québec</u>				
79036	Escoumins	-----	March 21/97		See Note (2)
	NOTE: This ENC is derived from CHS Chart 1235.				
76062	L'Anse-à-Beaufils	-----	Jan. 17/97		See Note (2)
	NOTE: This ENC is derived from CHS Chart 4921.				

(AMA8035-10-35)

(DFO-H97-057)

*467

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	SCALE	DATED	CAT #	PRICE
1. New Charts.					
	<u>Bay of Fundy/Baie de Fundy</u>				
4011R/M	Approaches to/Approches à Bay of Fundy	-----	July 30/93		See Note (2)
4117R/M	Saint John Harbour and Approaches/et les Approches	-----	Oct. 28/88		See Note (2)
4124R/M	Harbours in the Bay of Fundy/Ports dans la Baie de Fundy - Southwest Coast/Côte Sud-Ouest	-----	Aug. 7/92		See Note (2)
	<u>Cape Breton Island/Île du Cap-Breton</u>				
4275R/M	St. Peters Bay	-----	Dec. 23/83		See Note (2)
4276R/M	Little Bras D'Or	-----	Feb. 5/82		See Note (2)
4279R/M	Bras D'Or Lake	-----	Sept. 13/91		See Note (2)
	<u>Nova Scotia/Nouvelle-Écosse</u>				
4379R/M	Liverpool Harbour	-----	Feb. 14/92		See Note (2)
4391R/M	La Have River - Conquerall Bank to Bridgewater	-----	Feb. 21/92		See Note (2)
	<u>Bay of Fundy/Baie de Fundy</u>				
4399R/M	Parrsboro Harbour and Approaches	-----	Aug. 26/83		See Note (2)
	<u>Nova Scotia/Nouvelle-Écosse</u>				
4437R/M	Pictou Harbour	-----	May 17/91		See Note (2)
	<u>Newfoundland/Terre-Neuve</u>				
4511R/M	Sacred Bay	-----	Oct. 17/80		See Note (2)

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
2. New Edition.					

Newfoundland/Terre-Neuve

L/C4846R/M	Motion Bay to/à Cape St. Francis	-----	Dec. 15/95	See Note (2)
------------	----------------------------------	-------	------------	--------------

(AMA8035-10-35)

(DFO-H97-058)

***472 NEW BRUNSWICK - SAINT JOHN RIVER - ROWANS POINT - Daymarks.**

Three starboard daymarks and one port hand daymark have been established in Marble Cove (45°16'17" N 66°05'14" W approx.).

(AMA8035-10-1)

(CCG-F96-086)

***473 GREAT LAKES - ST. CLAIR RIVER - STAG ISLAND - Light buoy.**

This information is applicable to U.S. chart 14853.

A green light buoy "FI G", marked "AM3" has been established in 42°53'45" N 82°27'33".5 W.

(AMA8035-10-5-14)

(CCG-B97-009)

***475 PRINCE EDWARD ISLAND - RUSTICO HARBOUR - Light buoy.**

A green light buoy, "FI G", marked "JK7" has been established in 46°27'25" N 63°17'18" W.

(AMA8035-10-5-6)

(CCG-G97-060)

***471(P) NEW BRUNSWICK - Changes to the buoyage system - 1997.**

The Canadian Coast Guard proposes the following aids to navigation changes.

Navigational aids to be discontinued:

Palmer Point (L.L. 131) (45°34'33".2 N 66°01'10".9 W)

Hampstead Wharf (L.L. 132) (45°37'30".3 N 66°05'03".8 W)

Abbott's Harbour (L.L. 296) (43°39'36".9 N 65°49'14".1 W)

Pomeroy Ledge radar reflector (45°02'20" N 66°54'43".14 W)

Bliss Island Fog Signal (L.L. 77) (45°01'06".3 N 66°51'00".9 W)

Letete Light and bell buoy SJ (L.L. 74) (45°02'14".4 N 66°54'30" W)

Comments on this action are solicited from mariners and other interested parties. Comments should be directed to Supervisor, Aids to Navigation, Canadian Coast Guard, P.O. Box 700, Saint John, N.B., E2L 4B3 within three months from the date of publication of this notice. Any objections raised must state the facts on which they are based and should include supporting information on safety, commerce and public benefit.

(AMA8035-10-7-7)

(CCG-F97-002)

***446(P) ONTARIO - WIARTON - DGPS Initial Operational Service (IOS)**

The Canadian Coast (CCG) announces that the Differential Global Positioning Systems (DGPS) Initial Operational Service (IOS) is available for positioning and navigation in the Great Lakes from the station located at Wiarton, Ontario, transmitting on frequency 286 KHz.

IOS means that 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 the Radio Aids to Marine Navigation (RAMN) for estimated advertised coverage for this differential station.

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

The DGPS corrections are calculated at the reference station in the North American Datum 1983 (NAD 83), a datum used by many of the newer navigational charts. DGPS receivers should be set to the standard World Geodetic System 1984 (WGS 84) datum to automatically provide NAD 83 position. When utilizing charts with a North American Datum other than NAD 83, the DGPS position must be adjusted to the appropriate datum using the information contained on the chart.

(AMA8035-10-1)

(CCG-D97-021)

*** 445 CANADIAN HYDROGRAPHIC SERVICE - Information about CHS chart dealers****1 - NEWLY APPOINTED CHART DEALERS**

Les Agrès de Pêche A.C.P.G. Inc.
1, rue Mary, C.P. 174
Rivière-au-Renard, Québec
G0E 2A0
Tel: (418) 269-3372
Fax: (418) 269-3402

The Map Store
Old Town Plaza
505 Stillwater Avenue
Old Town, ME 04468, U.S.A.
Tel: (207) 827-4511
Fax: (207) 827-0477

Bay Moorings Marina & Yacht Club Inc.
1 - 200 Fox Street
Penetanguishene, Ontario
L9M 1E7
Tel: (705) 549-6958
Fax: (705) 549-6990

Niagara Marine (1973) Ltd.
79 Geneva Street
St. Catharines, Ontario
L2R 4M9
Tel: (905) 685-4204
Fax: (905) 685-7161

Boat U.S.
567 East Roosevelt Road
Lombard, IL 60148
U.S.A.
Tel: (630) 792-1550
Fax: (630) 792-8417

Pathfinder Maps
112 John Cavanagh Road
Carp, Ontario
K0A 1L0
Tel: (613) 839-0108
Fax: (613) 839-0101

Chasse et Pêche de Lasalle
1732-A, avenue Dollard
Lasalle, Québec
H8N 1T8
Tel: (514) 595-3877
Fax: (514) 595-3877

Rossway Enterprises
P.O. Box 99
Digby, Nova Scotia
B0V 1A0
Tel: (902) 245-6483, 245-2655
Fax: (902) 245-4545

Cross Marine Electronics Ltd.
71 Ilsley Avenue, Unit #1
Dartmouth, Nova Scotia
B3B 1L5
Tel: (902) 468-3993
Fax: (902) 468-4374

Sandy Cove Marine
1982 Commerce Park Drive
Thornton, Ontario
L0L 2N0
Tel: (705) 436-4739
Fax: (705) 436-3206

Global Marine Inc.
105 Abraham-Martin, Suite 200
C.P. 1214
Québec, Québec
G1K 7C3
Tel: (418) 692-5334
Fax: (418) 692-5143

Starport Landing
R.R. #7
3952 McRae Park Road, Unit 1
Orillia, Ontario
L3V 6H7
Tel: (705) 325-3775
Fax: (705) 325-3467

2 - DEALER ADDRESS CHANGE

OLD ADDRESS

Summerside Ship Supply
42 Water Street
Summerside, P.E.I.
C1N 4T8
Tel: (902) 436-7555
Fax: (902) 436-7611

NEW ADDRESS

Summerside Ship Supply
24 Spring Street
Summerside, P.E.I.
C1N 3C8
Tel: (902) 436-2263
Fax: (902) 436-7611

3 - THE FOLLOWING ARE NO LONGER AUTHORIZED CHS CHART DEALERS

Armchair Sailor
3 Lockwood Drive
Charleston, SC 29401
U.S.A.
Tel: (803) 577-0254

The Map Store
124 O'Connor Street, Suite 500
Ottawa, Ontario
K1P 5M8
Tel: (613) 233-6277

Boulanger Yacht Inc.
2225 St-Joseph
Lachine, Québec
H8S 4B7
Tel: (514) 637-4408

Oceanside Marine Ltd.
13130 Peggy's Cove Road
Route 333
Tantallon, Nova Scotia
Tel: (902) 826-2628

Campbell's Ships Supplies
11 Morris Drive, Suite 125
Burnside Industrial Park
Dartmouth, Nova Scotia
B3B 1M2
Tel: (902) 468-2384

Pine Ridge Park and Resort
R.R. #6
Pembroke, Ontario
K8A 6W7
Tel: (613) 732-9891

The Harbor Boat Shop
13272 S.W. Bayshore Drive
Traverse City, MI 49684
U.S.A.
Tel: (616) 922-3010

Technicom GeoInfo Services
19 Amos Avenue, #13
Waterloo, Ontario
N2L 2W6
Tel: (519) 886-0058

(AMA8035-10-35)

(DFO-H97-051)

***456 NOVA SCOTIA, SOUTHEAST COAST - COUNTRY HARBOUR - Buoys.**

Charts (Last correction) - LC 4233(NAD 83)(1,2)(850/96) - LC 4234(Inset, Country Harbour) (NAD 83)(4,5)(433/95) - LC 4234(NAD 83)(1,2,4)(433/95) - LC 4321(NAD 27)(1,3)(426/96) - LC 4227(NAD 83)(1,2)(433/95)

Reference: Notice 180(P)/97.

- | | | |
|------------|--|----------------------------------|
| 1. Delete | red light and bell buoy TU2 | 45°02'53" N 61°35'41" W (approx) |
| 2. Add | South cardinal light and bell buoy
"Q(6)+LFI 15s", "YB", "BELL",
marked "TU" | 45 02 45 N 61 35 12 W |
| 3. | South cardinal light and bell buoy
"Q(6)+LFI 15s", "YB", "BELL",
marked "TU" | 45 02 46.2 N 61 35 15.9 W |
| 4. Replace | red conical buoy TT10 with a red
light buoy "FI R" marked "TT10" | 45 09 43.2 N 61 39 01.4 W |
| 5. Delete | green can buoy TT13 | 45 10 55 N 61 39 33 W (approx) |

NOTE: Digital data products 4227R/M, 4233R/M, 4321R/M, 76061(4227), 76067(4233), 76109(4234) and 76111(4234) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-6)

(CCG-G97-010-012)

***470 NOVA SCOTIA, SOUTHEAST COAST - Caution note.**

Chart (Last correction) - LC 4236(NAD 83)(1)(208/96)

On certain copies.

- | | | |
|--------|--|----------------------------------|
| 1. Add | NOTE:
CAUTION No. 1
Mariners are cautioned not to rely
entirely on the lattices in the inshore
waters.
ATTENTION No. 1
Les navigateurs ne doivent pas se
fier entièrement sur le réseau dans
les eaux intérieures. | 44°52'30" N 62°37'30" W (approx) |
|--------|--|----------------------------------|

NOTE: Digital data products 76083(4236), 76084(4236) and 76089(4236) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-H97-056)

***465 NOVA SCOTIA, SOUTHEAST COAST - CHEBUCTO HEAD - Chart amendment.**

Chart (Last correction) - LC 4385(NAD 83)(1)(New Edition, June/96)

- | | | |
|----------|--|-----------------------------|
| 1. Amend | FR to read "FI R" against red light
buoy H4 | 44°31'39".5 N 63°30'03".6 W |
|----------|--|-----------------------------|

NOTE: Digital data product 76189(4385) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-H97-055)

***442 ST. LAWRENCE RIVER - BAIE-COMEAU - MARINA BAIE-COMEAU - Buoys.**

Chart (Last correction) - 1226(Plan, Quai Public/Public Wharf)(NAD 27)(1,2)(833/96) - 1226(Plan, Baie-Comeau)(NAD 27)(1,2)(833/96)

- | | | |
|--------|--|---------------------------|
| 1. Add | green barrel buoy marked "KC1"
“(Priv)” | 49°13'39" N 68°07'52".2 W |
| 2. | green barrel buoy marked "KC3"
“(Priv)” | 49 13 39.1 N 68 08 04.6 W |

NOTE: Digital data products 1226R/M, 79048(1226) and 79049(1226) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-9)

(CCG-L97-066)

***458 ST. LAWRENCE RIVER - CHENAL DU BIC - CAP À L'ORIGINAL - Marine farm.**

Chart (Last correction) - LC 1236(NAD 83)(1)(416/97)

- | | | |
|--------|--------------------|-----------------------------|
| 1. Add | marine farm symbol | 48°20'45".1 N 68°49'44".2 W |
|--------|--------------------|-----------------------------|

NOTE: Digital data products 1236R/M and 79037(1236) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q97-089,CCG-L96-135))

***454(P) ST. LAWRENCE RIVER - CHENAL DU BIC - ÎLE BICQUETTE AND BAIE DES HA! HA! - Marine farms.**

Chart (Which will be affected) - 1223(NAD 27)(1-12)

- | | | | |
|--------|------------------------------------|---------|---|
| 1. Add | pecked line | joining | 48°25'10" N 68°52'30" W
48 25 02 N 68 52 27 W
48 24 57 N 68 53 04 W
48 25 05 N 68 53 07 W
and 48 25 10 N 68 52 30 W |
| 2. | yellow cautionary spar buoy "Priv" | | 48 25 10 N 68 52 30 W |
| 3. | yellow cautionary spar buoy "Priv" | | 48 25 02 N 68 52 27 W |
| 4. | yellow cautionary spar buoy "Priv" | | 48 24 57 N 68 53 04 W |
| 5. | yellow cautionary spar buoy "Priv" | | 48 25 05 N 68 53 07 W |
| 6. | marine farm symbol | | 48 25 05.1 N 68 52 42.3 W |

7. Add	pecked line	joining	48°20'30" N 68°50'02" W 48 20 35 N 68 49 24 W 48 21 00 N 68 49 31 W 48 20 56 N 68 50 09 W and 48 20 30 N 68 50 02 W
8.	yellow cautionary spar buoy "Priv"		48 20 30 N 68 50 02 W
9.	yellow cautionary spar buoy "Priv"		48 20 35 N 68 49 24 W
10.	yellow cautionary spar buoy "Priv"		48 21 00 N 68 49 31 W
11.	yellow cautionary spar buoy "Priv"		48 20 56 N 68 50 09 W
12.	marine farm symbol		48 20 45.7 N 68 49 46.8 W

NOTE: Digital data products 1223R/M and 79099(1223) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q97-090,CCG-L97-050,CCG-L97-135)

***447 QUÉBEC - SAGUENAY RIVER - CHICOUTIMI - RIVIÈRE DU MOULIN - Pier, cable buoys, crib and pipeline.**

Chart (Last correction) - 1209(NAD 27)(1-7)(183/97)

1. Delete	pier	from	48°26'14".5 N 71°01'15".6 W to 48 26 17.5 N 71 01 25.2 W
2.	submarine cable	from	48 26 09.1 N 71 01 28.1 W 48 26 15.6 N 71 01 27.4 W to 48 26 17.4 N 71 01 25.9 W
3.	submarine cable	from	48 26 17.3 N 71 01 12.1 W 48 26 19 N 71 01 21.1 W to 48 26 17.9 N 71 01 25.1 W
4.	pipeline	from	48 26 17 N 71 01 12.3 W to 48 26 17.7 N 71 01 24.7 W
5.	crib		48 26 17.6 N 71 01 25.5 W
6.	barrel mooring buoy		48 26 15.6 N 71 01 27.4 W
7.	barrel mooring buoy		48 26 19.1 N 71 01 21.1 W

NOTE: Digital data products 1209R/M and 79077(1209) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q97-091)

***448 ST. LAWRENCE RIVER - VARENNES - Water outfall.**

Charts (Last correction) - 1310(Compartment A-B)(NAD 83)(1)(244/97) - 1339(NAD 27)(2)(415/97)

- | | | |
|-----------|---------------|--|
| 1. Delete | sewer outfall | between 45°42'20" N 73°26'15".5 W
and 45 42 13.5 N 73 26 05.3 W |
| 2. | sewer outfall | between 45 42 19.8 N 73 26 13.8 W
and 45 42 15 N 73 26 06.7 W |

NOTE: Digital data products 1310R/M, 1339R/M, 79001 (1310) and 79013 (1339) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-Q97-094)

***457 QUÉBEC - OTTAWA RIVER - LAC DES DEUX MONTAGNES - Buoys.**

Chart - 1510(Sheet 1)(Compartment A-B)(NAD 27)(1-5) - 1510(Sheet 2)(Compartment B-C)(Baie de Vaudreuil à/to Laval)(NAD 27)(1,2)

- | | | |
|------------|--|---------------------------|
| 1. Replace | red pillar buoy H12 with red light
buoy "FI R" marked "H12" | 45°24'50" N 73°58'23" W |
| 2. | green pillar buoy H33 with green
light buoy "FI G" marked "H33" | 45 26 35.9 N 74 02 11.7 W |
| 3. | green pillar buoy H87 with green
light buoy "FI G" marked "H87" | 45 28 49.7 N 74 09 52.4 W |
| 4. | green pillar buoy H117 with green
light buoy "FI G" marked "H117" | 45 31 17.1 N 74 14 53.9 W |
| 5. | green pillar buoy HJ51 with green
light buoy "FI G" marked "HJ51" | 45 30 13.2 N 74 18 34.5 W |

(AMA8035-10-5-9)

(CCG-L97-065)

***455 QUÉBEC - OTTAWA RIVER - ÎLE AUX PINS - Crib**

Chart - 1510(Sheet 1)(Compartment A-B)(NAD 27)(1) - 1510(Sheet 2)(Compartment B-C)(Baie de Vaudreuil à/to Laval)(NAD 27)(1)

- | | | |
|--------|------|---------------------------|
| 1. Add | crib | 45°22'48" N 74°00'12".5 W |
|--------|------|---------------------------|

(AMA8035-10-35)

(DFO-Q97-095)

***451 LAKE ONTARIO - BAY OF QUINTE - NAPANEE RIVER - Note.**

Chart (Last correction) - 2006(NAD 27)(1)(351/97)

Reference: Notice 602(P)/96 cancelled.

- | | | |
|----------|---------------------|-----------------------------------|
| 1. Amend | NOTE NO. 1 to read: | 44°11'12" N 77°00'00" W (approx.) |
|----------|---------------------|-----------------------------------|

The Napanee River Channel is buoyed privately by the Quinte Conservation Services Alliance with a reported minimum depth of 3 feet in 1987.
See CAUTION

Le chenal de Napanee River est balisé et

entretenu par la Quinte Conservation Services
Alliance et a une profondeur minimum signalée
de 3 pieds en 1987. Voir ATTENTION.

NOTE: Digital data products 2006R/M and 73039(2006) may also be affected. Contact Nautical
Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-14)

(DFO-C97-055,CCG-B97-007)

***449 QUÉBEC - ONTARIO - OTTAWA RIVER - Chart amendments.**

Chart - 1553(Sheet 1)(NAD 27)(1-4) - 1553(Sheet 2)(Île d'Arcy to/à Balmer Bay)(NAD 27)(5-14) -
1553(Sheet 3)(Balmer Bay to/à Rapides-des-Joachims)(NAD 27)(15-45)

1. Amend	bridge clearance (15 ft) to read "(14 ft)"	45°48'06" N 77°03'21".3 W
2.	hydro cable clearance of (21 ft) to read "(16 ft)"	45 48 10 N 77 03 26 W
3. Delete	Pine Ridge Marina Inset	
4. Add	depth "3" feet	45 51 00.4 N 77 09 24 W
5.	depth "5" feet	45 55 31 N 77 12 07.3 W
6.	depth "23" feet	45 55 30 N 77 12 03 W
7.	depth "13" feet	45 55 22.5 N 77 12 13.5 W
8.	depth "5" feet	45 55 23.7 N 77 12 16 W
9.	depth "9" feet	45 55 24.4 N 77 12 21.2 W
10.	depth "7" feet	45 55 20 N 77 12 21.3 W
11.	depth "21" feet	45 55 20.5 N 77 12 26.8 W
12.	depth "5" feet	45 55 15.5 N 77 12 23.5 W
13.	depth "20" feet	45 55 15 N 77 12 27 W
14.	depth "18" feet	45 55 17.5 N 77 12 32 W
15. Amend	depth against crib to read "(8)" feet	46 10 54.5 N 77 37 39.5 W
16.	depth against crib to read "(8)" feet	46 10 56.2 N 77 37 40.5 W
17.	depth against crib to read "(8)" feet	46 10 59.5 N 77 37 51.3 W
18.	depth against crib to read "(8)" feet	46 11 00 N 77 38 03 W
19.	depth against crib to read "(8)" feet	46 10 59.5 N 77 38 08.9 W
20.	depth against crib to read "(8)" feet	46 11 00 N 77 38 10 W
21.	depth against crib to read "(8)" feet	46 10 58.9 N 77 38 10.8 W
22.	depth against crib to read "(8)" feet	46 11 03.9 N 77 38 17 W

23.	depth against crib to read "(8)" feet		46 11 02 N 77 38 40.8 W
24. Amend	depth against crib to read "(8)" feet		46°11'02".2 N 77°38'45" W
25.	depth against crib to read "(8)" feet		46 11 03 N 77 38 50 W
26.	depth against crib to read "(8)" feet		46 11 04.5 N 77 38 53.7 W
27.	depth against crib to read "(8)" feet		46 11 12.3 N 77 39 15 W
28.	depth against crib to read "(8)" feet		46 11 11.5 N 77 39 19 W
29.	depth against crib to read "(8)" feet		46 11 28.8 N 77 39 42.5 W
30.	depth against crib to read "(8)" feet		46 11 46 N 77 39 49.1 W
31.	depth against crib to read "(8)" feet		46 11 37.8 N 77 39 59 W
32.	depth against crib to read "(8)" feet		46 11 41 N 77 40 12 W
33. Add	depth "14" feet		46 10 59 N 77 37 55 W
34.	depth "21" feet		46 10 58 N 77 38 02 W
35.	depth "7" feet		46 10 59 N 77 38 07 W
36.	depth "23" feet		46 11 01.3 N 77 38 13.6 W
37.	depth "23" feet		46 11 04.8 N 77 38 24 W
38.	depth "64" feet		46 11 02.2 N 77 38 34 W
39.	depth "12" feet		46 11 09.2 N 77 38 33 W
40.	depth "39" feet		46 11 02.5 N 77 38 43.2 W
41.	depth "57" feet		46 11 07 N 77 38 40.2 W
42.	depth "4" feet		46 11 14.7 N 77 38 41.7 W
43.	depth "49" feet		46 11 09.3 N 77 38 54.3 W
44.	overhead cable	joining and	46 11 02.3 N 77 41 34.5 W 46 10 54 N 77 41 34.5 W
45.	bridge with clearance of "(31 ft)"	joining and	46 12 26.8 N 77 42 09 W 46 12 22.8 N 77 42 12.8 W

(AMA8035-10-35)

(DFO-C97-038)

***460 ST. LAWRENCE SEAWAY - WELLAND CANAL - ST. CATHARINES - Buoys.**

Chart (Last correction) - 2042(Continuation A-B)(NAD 83)(1,2)(383/97)

1. Reposition	green light buoy WC9	from	43°12'37".5 N 79°12'36" W
		to	43 12 33.4 N 79 12 34.9 W

2. green light buoy WC11 from 43 12 02 N 79 12 21.5 W
to 43 12 01.7 N 79 12 22.3 W

NOTE: Digital data products 2042R/M and 73010(2042) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-C97-051)

***461 LAKE ERIE - PORT COLBORNE - CASSADAY POINT - Light buoy.**

Chart (Last correction) - LC 2120(NAD 27)(1)(349/97)

Reference: Notice 544(T)/96 cancelled.

1. Amend EA2 to read "EA2/2" against red light buoy 42°50'24" N 79°14'13" W

NOTE: Digital data products 2120R/M and 73093(2120) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-14)

(CCG-B97-012,DFO-C97-056)

***453 ONTARIO - TRENT- SEVERN WATERWAY - OFF HORSESHOE ISLAND - Buoys.**

Chart - 2028(Sheet 2)(Lake Couchiching)(NAD 27)(1-6)

- | | | |
|----------|--|-------------------------|
| 1. Amend | SA-A to read "SH1" against green spar buoy | 44°39'28" N 79°22'16" W |
| 2. | SH-B to read "SH2" against red spar buoy | 44 39 30 N 79 22 20 W |
| 3. | SH1 to read "SH3" against green spar buoy | 44 39 04 N 79 22 29 W |
| 4. | SH2 to read "SH4" against red spar buoy | 44 39 04 N 79 22 32.5 W |
| 5. | SH4 to read "SH6" against red spar buoy | 44 38 17 N 79 22 24 W |
| 6. | SH6 to read "S300" against red spar buoy | 44 37 56 N 79 22 12 W |

NOTE: Digital data product 2028R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13)

(CCG-D96-018,DFO-C97-058)

***452 LAKE HURON - GEORGIAN BAY - COLLINGWOOD HARBOUR - Light buoy.**

Chart (Last correction) - 2215(NAD 83)(1)(363/96)

1. Reposition red light buoy TN12 from 44°31'44".6 N 80°13'39".8 W
to 44 31 38.6 N 80 13 39.8 W

NOTE: Digital data products 2215R/M and 73144(2215) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13)

(CCG-D96-017,DFO-C97-057)

***444 LAKE HURON - GEORGIAN BAY - PARRY SOUND - Horizontal datum.**

Chart (Last correction) - 2225(NAD 27)(1)(98/97)

1. Amend	NOTE to read	45°22'06" N 80°14'12" W
----------	--------------	-------------------------

HORIZONTAL DATUM: North American Datum 1927 (NAD 27). Positions on NAD 83 and those taken from GPS or Loran-C co-ordinate conversion after ASF correction must be moved 0.33 seconds southward and 0.48 seconds westward to agree with this chart.

SYSTÈME GÉODÉSIQUE: Système de référence géodésique de l'Amérique du Nord 1927(NAD 27). Les positions basées sur NAD 83 et celles provenant du GPS ou Loran-C avec conversion des coordonnées après la correction du FSA doivent être corrigées de 0.33 seconde vers le sud et 0.48 seconde vers l'ouest pour être en accord avec cette carte.

NOTE: Digital data product 2225R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-H97-050)

***459 LAKE HURON - GEORGIAN BAY - SOUTH OF BEAVERSTONE BAY - MORELAND BANK - Buoys.**

Charts (Last correction) - 2204(NAD 27)(Sheet 3)(Compartment C-D)(French River to/à Beaverstone Bay)(1-3) - LC 2244(NAD 27)(1-3)(192/96) - LC 2245(NAD 27)(1-3)(373/97)

Reference: Notice 461(P)/96.

1. Delete	fairway bell buoy D	45°54'48" N 81°14'24" W (approx.)
2. Add	red spar buoy marked "D86"	45 55 06 N 81 13 48 W
3.	red spar buoy marked "D84"	45 54 35 N 81 12 03 W

NOTE: Digital data products 2204R/M, 2244R/M, 2245R/M, 73052(2244) and 73054(2245) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13)

(CCG-D96-012, 013,DFO-C97-049)

***462 LAKE HURON - WHISKEY POINT - ST. JOSEPH ISLAND - Results of survey.**

Chart (Last correction) - 2251(NAD 27)(1-3)(400/97)

1. Delete	depth 0.3 metres Repld 1992 PA	46°05'24" N 83°51'18" W
2. Add	depth "2.1" metres	46 05 22 N 83 51 23 W
3.	depth "0.8" metres	46 04 11.8 N 83 53 55 W

NOTE: Digital data products 2251R/M and 73060(2251) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-C97-060)

***450(P) LAKE SUPERIOR - NIPIGON BAY - JACKFISH BAY, SIMPSON ISLAND, MACINNES POINT - Lights to be discontinued.**

Charts (Which will be affected) - 2305(1) - 2303(1,2) - 2312(NAD 27)(2,3) - 2304(4)

- | | |
|----------|-------------------------|
| 1. Light | 48°47'22" N 86°58'54" W |
| 2. | 48 50 27 N 87 41 26 W |
| 3. | 48 55 44 N 87 55 42 W |
| 4. | 48 47 17 N 86 58 54 W |

NOTE: (1) The Canadian Coast Guard proposes to permanently discontinue the above-mentioned aids to navigation. Comments on these actions are solicited from mariners and other interested parties and should be directed to the Supervisor, Marine Aids Program, Canadian Coast Guard, P.O. Box 310, 28 Waubeek St., Parry Sound, Ontario P2A 2X4, Telephone (705) 746-2196, Facs: (705) 746-6953 within three months of the date of this notice. Any objections raised must state the facts on which they are based and should include supporting information on safety, commerce and public benefit.

(2) Digital data products 2303R/M, 2304R/M, 2312R/M, 73062(2312), 73066(2303), 73067(2304) and 73120(2312) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-7-13)

(CCG-D97-018,DFO-C97-052)

***463 NORTHWEST TERRITORIES - RANKIN INLET - Depths.**

Charts (Last correction) - 5427(1,2)(776/96) - 5396(1,2)(776/96) - 5397(1,2)(776/96)

- | | | |
|-----------|----------------------------|---------------------------|
| 1. Delete | depth 4 fathoms 2 feet | 62°38'54".7 N 91°28'56" W |
| 2. Add | depth "4" fathoms "1" foot | 62 39 02.9 N 91 28 58.4 W |

(AMA8035-10-35)

(DFO-C97-061)

***464 HUDSON BAY - CHURCHILL - CHURCHILL RIVER - Depth.**

Chart (Last correction) - 5640(NAD 83)(1)(New Chart, April /94)

- | | | |
|--------|--------------------|---------------------------|
| 1. Add | depth "7.8" metres | 58°47'12" N 94°12'40".2 W |
|--------|--------------------|---------------------------|

(AMA8035-10-35)

(DFO-C97-067)

CORRECTIONS TO RADIO AIDS TO MARINE NAVIGATION

***469 CANADA, EAST COAST - Amendments to the Radio Aids to Marine Navigation (Atlantic and Great Lakes) publication - April 1997.**

Page:

78 Delete Cape Spear,
Nfld. radiobeacon
station.

80 Delete the following
listing:

Cape Spear, NFLD.
47°31'16".2 N
52°37'20".3 W

(M2204-146)
(CCG-N96-092)

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Labrador and Hudson Bay, Sixth Edition, 1988 —

Page 301 — Top of left column
 Page 306 — After paragraph 66
 Page 352 — Top of left column
 Page 370 — Before paragraph 249
 Delete: 5000
 Replace by: 5002

Page 367 — After paragraph 209
 Delete: 5607
 Replace by: 5707

Page 393 — Paragraph 31, lines 2 to 4
 Delete the second sentence.

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

Page 108 — **APPENDIX**— Marine Repair Facilities at Durrell
 Delete: 884-2391
 Replace by: 884-2528

ATL 110 — St. Lawrence River — Cap Whittle/Cap Gaspé to Les Escoumins,
 First Edition, 1992 —

Page 2 — Delete **Table 1.1**

Replace by:

Table 1.1 Calling-in-Points

C.I.P. No.	Name	Destination	Distance
Upbound Vessels			(nautical miles)
1A	Sept-Îles	Sept-Îles	17.8
1A	Sept-Îles	Port-Cartier	31.3
1C	Sept-Îles	Sept-Îles	19.4
1E	Sept-Îles	Pointe des Monts (2A)	58.9
Downbound Vessels			
2B	Pointe des Monts	Port-Cartier	70.2
2B	Pointe des Monts	Sept-Îles	76.4
2B	Pointe des Monts	Sept-Îles (1F)	57.2
	Sept-Îles	Sept-Îles (1B)	18.6
	Sept-Îles	Sept-Îles (1D)	23.8

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Page 34 — Delete **Table 2.1**

Replace by:

Table 2.1 Calling-in-Points

C.I.P. No.	Name	Destination	Distance
Upbound Vessels			(nautical miles)
1G	Sept-Îles	Pointe des Monts (2A)	54.3
Downbound Vessels			
2B	Pointe des Monts	Sept-Îles (1H)	54.2

Page 52 — Delete **Table 3.1**

Replace by:

Table 3.1 Calling-in-Points

C.I.P. No.	Name	Destination	Distance
Upbound Vessels			(nautical miles)
2A	Pointe des Monts	3A Pointe de Manicouagan	33.0
3A	Pointe de Manicouagan	4A Pointe au Boisvert	47.2
4A	Pointe au Boisvert	5A Precautionary area	13.5
Downbound Vessels			
5	Les Escoumins	4B Pointe au Boisvert	17.9
4B	Pointe au Boisvert	3B Pointe de Manicouagan	48.1
3B	Pointe de Manicouagan	2B Pointe des Monts	30.8

Page 71 — After paragraph 218

Insert: ^{218.1} Marine farm facilities, marked with yellow cautionary buoys, are located in Baie du Ha! Ha!, east of Île Bicquette and close of Récif du Sud-Est.

ATL 111 — St. Lawrence River — Île Verte to Québec, First Edition, 1992 —

Page 1 — Delete **Table 1.1**

Replace by:

Table 1.1 Calling-in-Points

C.I.P. No.	Name	Distance (nautical miles)	
		Between C.-I.-P.	Upstream Downstream
5A	Precautionary area		0 95.5
6	Haut-fond Prince	18.2	18.2 77.3
7	Île Blanche	8	26.2 69.3
8	Cap aux Oies	37.5	63.7 31.8
9*	Cap Maillard	20.8	84.5 —
10	Cap Brûlé	11	95.5 0

* Upbound vessels only

Page 7 — Delete paragraph 64 and its pictograph.

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Page 13 — Paragraph 125, line 1 - after “**point**”

Insert: for upbound vessels only

Page 16 — Delete **Table 2.1**

Replace by:

Table 2.1 Calling-in-Points

C.I.P. No.	Name	Distance (nautical miles)		
		Between C.-I.-P.	Upstream	Downstream
10	Cap Brulé		0	32.1
11	Saint-Laurent	19.8	19.8	12.3
12**	Ste-Pétronille	5.5	25.3	—
13	Québec	3.8	29.1	3
13A*	Sillery	3	—	0

* Downbound vessels only

** Upbound vessels only

Page 32 — Delete **Table 3.1**

Replace by:

Table 3.1 Calling-in-Points, upbound vessels

C.I.P. No.	Name	Distance (nautical miles)	
		Between C.-I.-P.	Cumulative
5A	Precautionary area	0	
6*	Haut-fond Prince	18.5	18.5
7	Île Blanche	9.3	27.8
8	Saint-Roch	40.1	67.9
9	Pilier de Pierre	14.0	81.9
10	Beaujeu	10.5	92.4
11	Saint-Laurent	24.0	116.4

* South of Île Rouge

Page 32 — Delete **Table 3.2**

Replace by:

Table 3.2 Calling-in-Points, downbound vessels

C.I.P. No.	Name	Distance (nautical miles)	
		Between C.-I.-P.	Cumulative
11	Saint-Laurent	0	
10	Beaujeu	24.0	24.0
8	Saint-Roch	24.5	48.5
7	Île Blanche	40.1	88.6
6*	Haut-fond Prince	9.0	97.6
5	Les Escoumins	13.2	110.8

* South of Île Rouge

Page 37 — Delete paragraph 77 and its pictograph.

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Page 39 — Paragraph 102, line 4 - after “**point**”

Insert: for upbound vessels only

Page 46 — Delete **Table 4.1**

Replace by:

Table 4.1 Calling-in-Points

C.I.P. No.	Name	Distance (nautical miles)		
		Between C.-I.-P.	Upstream	Downstream
6	Haut-fond Prince		0	57.2
S1	Ile Saint-Louis	19.2	19.2	19.2
S2	Chicoutimi	38.0	57.2	0

Page 49 — Delete paragraph 58 and its pictograph.

Page 52 — Delete paragraph 97 and its pictograph.

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

Page 2 — Delete **Table 1.1**

Replace by:

Table 1.1 Calling-in-Points

C.I.P. No.	Name	Distance (nautical miles)		
		Between C.-I.-P.	Upstream	Downstream
13	Québec		0	71.2
13A*	Sillery	3.0	3.0	68.2
14	Saint-Nicolas	9.6	12.6	58.6
15	Sainte-Croix	11.3	23.9	47.3
16	Grondines	16.9	40.8	30.4
17	Batiscan	10.0	50.8	20.4
18A**	Cap-de-la-Madeleine	15.1	65.9	5.3
19	Pointe des Ormes	5.3	71.2	0

* Downbound vessels only

** Upbound vessels only

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Page 18 — Delete **Table 2.1**

Replace by:

Table 2.1 Calling-in-Points

C.I.P. No.	Name	Distance (nautical miles)		
		Between C.-I.-P.	Upstream	Downstream
19	Pointe des Ormes	0		66.3
19A*	Port Saint-François	2.5	2.5	63.8
20	Yamachiche	9.2	11.7	54.6
21	Îles des Barques	11.5	23.2	43.1
21A**	Pont Turcotte (Richelieu)	6.1	—	—
22	Tracy	10.1	33.3	33.0
23	Contrecoeur	11.2	44.5	21.8
24	Cap Saint-Michel	8.7	53.2	13.1
25	Berth No. 110	6.3	59.5	6.8
26	C.-I.P. 2	2.0	66.3	0

* Downbound vessels only

** Upbound and downbound vessels in Rivière Richelieu

Page 28 — Paragraph 129, lines 2, 5 and 6

Cancel correction promulgated in Weekly Edition No. 16/93.

CEN 302 — Lake Ontario, First Edition, 1996 —

Page 13 — Paragraph 187, line 2 - after “marked by”

Insert: privately maintained

Page 42 — Paragraph 16, lines 5 and 6

Delete: “In 1994 ... (8.5 m)”

Replace by: In 1997, the berth had depths of 16 feet (4.9 m) at the NE end, 24 feet (7.3 m) near its mid-point, and 22 feet (6.7 m)

Page 89 — Paragraph 77, line 1

Delete: lie

Replace by: and other craft lie up to

CEN 303 — Welland Canal and Lake Erie, First Edition, 1996 —

Page 24 — After paragraph 18

Insert: ^{18.1} Point Abino light buoy EA2 (553.2) lies 0.4 mile south of Point Abino.

Page 27 — Delete paragraph 67.

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

CEN 304 — Detroit River, Lake St. Clair, St. Clair River, First Edition, 1996 —

Page 4 — After paragraph 40

Insert: 40.1 A self-propelled barge is reported to operate a **ferry** service to Bois Blanc Island from a wharf on the mainland near the Hackett Reach rear light. This ferry is reported to operate on demand.

Great Lakes, Volume 2, Seventh Edition, 1993 —

Page 142 — Delete paragraph 76 as promulgated in Bi-weekly Edition No. 12/95.

Page 149 — Top of left column

Delete: *Charts 2205, 2245.*

Replace by: *Chart 2206.*

Page 149 — Delete paragraph 200

Replace by: *Chart 2206-1.*

Page 149 — After paragraph 203

Delete: *Chart 2245.*

Page 149 — Paragraph 205, lines 3 to 8

Delete: "The main passage" to the end of the paragraph.

Page 149 — After paragraph 205

Insert: *Chart 2206-2.*

Page 149 — After paragraph 207

Insert: 207.1 There is a private **beacon range** on an island at $46^{\circ}03'13''N$, $81^{\circ}39'18''W$. The beacons are in line on a bearing of $045\frac{1}{2}^{\circ}$. The front beacon, elevation 3.7 m (12 ft), and the rear beacon, elevation 7 m (23 ft), consist of white slatwork daymarks (1996). These beacons are not shown on the chart.

207.2 **Halcyon Rock**, 0.6 mile WNW of Harrison Rock, lies in the mouth of **Pathfinder Bay**.

Chart 2206-4.

207.3 The passage south of McGregor Island, known as **East and West Channel**, connects with **East Channel**, which leads between McGregor Island and the mainland. East Channel in turn connects with **North Channel**, leading to **Iroquois Bay**, which is the northernmost part of McGregor Bay.

Chart 2206-1.

Page 149 — Paragraph 208, lines 1 and 2

Delete the first sentence.

Page 149 — Paragraph 208, line 5

Delete: (*Chart 2286*)

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Page 149 — Delete paragraph 209.

Page 149 — Paragraph 214, line 2

Delete: 2286

Replace by: 2206-3

Page 156 — After paragraph 346

Insert: 346.1 **Caution.** — The bay west and SW of Miller Point is used as a seaplane landing area.

Page 207 — Paragraph 139, line 2

Delete: , call sign *VBB*, is in Sault Ste. Marie

Replace by: at Sault Ste. Marie is remotely controlled from Thunder Bay MCTS Centre, call sign *VBA*. Direct all calls to Thunder Bay radio

Page 212 — Delete paragraphs 50 and 51.

Page 213 — Delete paragraph 67

Replace by: 67 **Marina.** — *Gitchee Gumee Marina Restaurant*, on the south shore of Havilland Bay, reported depths of 6 feet (1.8 m) in 1997 and offered dockage with power and water, pump out, ramp, engine and hull repairs, 18 tonne hoist, toilets, licensed restaurant, snack bar, pay phone, picnic area, ice, gasoline and diesel fuel. Showers, camping and VHF radio were planned for 1998. Groceries, bait and tackle available near by. The entrance to the marina, is reported to be marked by buoys and by a red light on shore; these aids are privately maintained.

67.1 **Customs.** — *Gitchee Gumee Marina Restaurant* is a vessel reporting station for pleasure craft.

Page 215 — Paragraph 125, lines 2 and 3

Delete: “radio station” to the end of the sentence.

Replace by: MCTS Centre at Thunder Bay, call sign *VBA*.

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Page 218 — Paragraph 183, lines 3 and 4

Delete: “with scheduled” to the end of the sentence.

Page 218 — Paragraph 188, lines 2 to 4

Delete: “In 1974” to the end of the sentence.

Replace by: In 1997, this wharf had reported depths of 1 to 3 feet (0.3 to 0.9 m).

Page 218 — Paragraph 189, lines 1 and 2

Delete: *Buck Fisheries* operates the services at *Michipicoten Marina*, a municipal

Replace by: *Buck’s Marina* operates the services at the *Harry McCluske Municipal Marina*, a

Small Craft Guide, Rideau Waterway and Ottawa River, Second Edition —

Chapter V — After paragraph 87

Insert: 87.1 **Submerged pipelines** — Submerged sewer and watermain pipelines cross the river near mile 12.

Chapter VII — Paragraph 18, end of paragraph

Delete: “39 feet ... night.”

Replace by: 52 feet (15.8 m) between the lights marking the channel under the span; the bridge is illuminated at night.

Small Craft Guide, Georgian Bay, Third Edition, 1988 —

Page 114 — Delete paragraph 148.

Page 144 — Delete paragraph 158.1 (Re: correction promulgated in Bi-weekly Edition No. 12/95)

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
-----	------	--	--------------------------	--	-----------------------	--	---------------------------------

NEWFOUNDLAND

395 H586	Peckford Island	SE. point of island. 49 31 49.5 53 51 08	Fl W 10s	15.5	13	Building, black and white vertical stripes. 2.1	Flash 0.5 s; eclipse 9.5 s Winter light (Flash 0.5 s; eclipse 3.5s) Emergency light. Year round. Horn - Blast 3 s; sil. 27 s. Horn points 126°. Chart:4530 Edn. 8/97
397	Musgrave Harbour breakwater	On breakwater. 49 27 33 53 57 31	Fl R 3s	3.0	...	White mast. 2.1	Flash 0.5 s; eclipse 2.5 s Seasonal. Chart:4530 Edn. 8/97
412	Wesleyville (Bennets High Island)	Bennets High Island. 49 08 13 53 33 49	Fl W 3s	22.9	5	Square skeleton tower, red and white daymark on three sides. 3.7	Seasonal. Chart:4536 Edn. 8/97
431	Shoe Cove Point	Near Greenspond. 49 02 12 53 36 21	Fl W 3s	26.8	...	Square skeleton tower, red and white daymarks on three sides. 3.7	Flash 0.5 s; eclipse 2.5 s Seasonal. Chart:4535 Edn. 8/97
448	Long Liner wharf	On seaward end of public wharf. 48 39 01.2 53 06 52.4	F R	2.8	...	Red skeleton mast. 1.5	Seasonal. Chart:4849 Edn. 8/97
467.1	Bowers Ledge North Cardinal light and whistle buoy TBU Racon --- (Z) X & S Band	47 44 25 53 44 00	Q W 1s	.....	...	Black and yellow, marked "TBU".	Seasonal. Chart:4851 Edn. 8/97
467.2	Temple's Knob light and bell buoy TB2	47 45 06 53 48 19	Fl R 4s	.....	...	Red, marked "TB2".	Seasonal. Chart:4851 Edn. 8/97
467.3	Stanton Point light and bell buoy TB4	47 48 05 53 50 50	Fl R 4s	.....	...	Red, marked "TB4".	Seasonal. Chart:4851 Edn. 8/97

ATLANTIC

634.4	South Easter light and bell buoy TU2						Delete from List. Chart 4234 456/97
634.4	South Easter South cardinal light and bell buoy TU	SW. of South Easter. 45 02 45 61 35 12	Q(6) W +LFl	15s	.....	...	Black and yellow, marked "TU". Chart:4233 456/97
636.1	Avondale Reef light buoy TT10	45 09 43 61 39 02	Fl R 4s	.....	...	Red marked "TT10"	Chart:4234 456/97

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
-----	------	--	--------------------------	--	-----------------------	--	---------------------------------

ATLANTIC (Cont'd)

1054.2	Light buoy JK6						Delete from List.	Chart:Nil Edn. 8/97
1054.3	Rustico Harbour Light buoy JK7	46 27 25 63 17 18	Fl G 4s	.....	...	Green, marked "JK7".		Chart:Nil Edn. 8/97
1824.33	Light buoy HC2	47 55 38 69 31 00	Fl R 4s	.....	...	Red, marked "HC2".	Winter spar. Emergency light. Year round.	Chart:1234 Edn. 8/97

INLAND WATERS

553.6	Cassaday Point light buoy EA2/2	S. of point. 42 50 24 79 14 13	Fl R 4s	.....	...	Red, marked "EA2/2".	Year round.	Chart:2120 461/97
579	Long Point Racon -- (M) X & S Band	E. extremity of point. 42 32 55 80 02 57.4	Fl W 8s	29.6	22	White octagonal tower, red upper portion.	Flash 0.38 s; eclipse 7.62 s Emergency light. Year round.	Chart:2110 Edn. 8/97
849	Collingwood light buoy TN12	Outer approach to harbour. 44 31 38.6 80 13 39.8	Q R 1s	.....	...	Red, marked "TN12".	Seasonal	Chart:2215 452/97
972.7	Rooster Reef bell buoy D						Delete from list.	Chart:2244 459/97
1230	Sainte-Anne- de-Bellevue light buoy H12	Off Pointe aux Moutons 45 24 50 73 58 23	Fl R 4s	.....	...	Red, marked "H12".	Year round.	Chart:1510 457/97
1242.55	Light buoy H33	45 26 35.9 74 02 11.7	Fl G 4s	.....	...	Green, marked "H33"	Year round	Chart:1510 457/97
1244.8	Light buoy H87	45 28 49.7 74 09 52.4	Fl G 4s	.....	...	Green, marked "H87".	Year round	Chart:1510 457/97
1247	Carillon Island light buoy H117	S. side of channel. 45 31 17.1 74 14 53.9	Fl G 4s	.....	...	Green, marked "H117".	Year round	Chart:1510 457/97
1252	Light buoy HJ51.	45 30 13.2 74 18 34.5	Fl G 4s	.....	...	Green, marked "HJ51".	Year round	Chart:1510 457/97

**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.

In the case of information concerning
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.