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Pêches et Océans Canada

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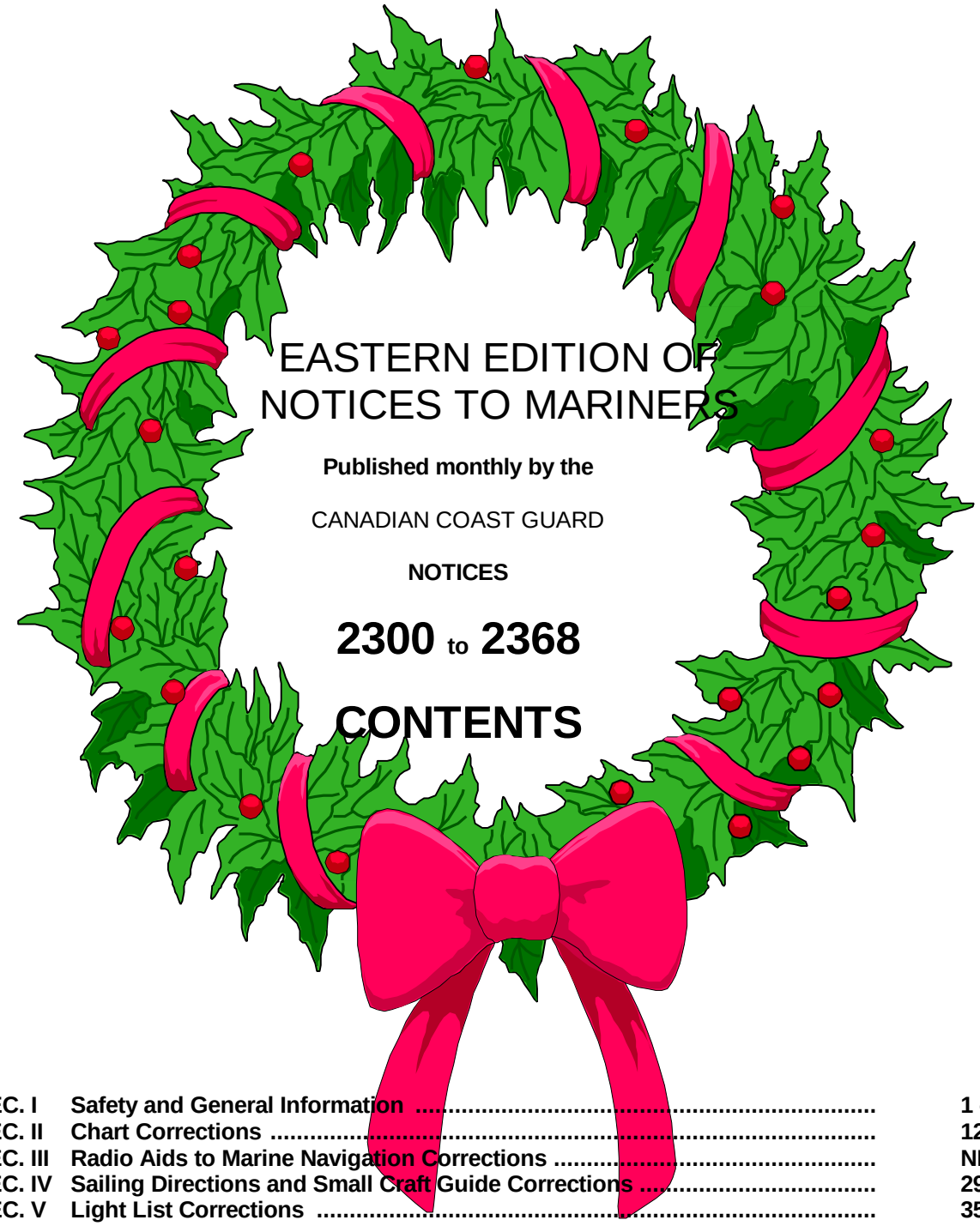
DECEMBER 31, 1999



EASTERN EDITION OF NOTICES TO MARINERS

Published monthly by the

CANADIAN COAST GUARD

NOTICES

2300 to 2368

CONTENTS

Canada

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Mariners are advised that all relevant Written Notices to Shipping should be kept until superseded by Notices to Mariners or through revised charts issued by the Canadian Hydrographic Service.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 INITAL 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 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
Wiarton, 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 131 49 W	300	200

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 a 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 anomoly 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.

<u>GPS “Rollover” August 1999</u>

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 upgraded. 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'usager

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

Anomaly report / Rapport d'anomalie

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

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

Weather conditions / Conditions météo

Winds / Vents : Direction:_____ Speed / Vitessse:_____ KTS
Temp. ^{o}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 / Fabriquant:_____ Model:_____
DGPS beacon receiver / Démodulateur DGPS: Make / Fabriquant :_____ Model:_____
Gyro interface with GPS / Gyro intégré avec le GPS? Yes / Oui :_____ No / Non :_____
DGPS interfaced with an ECDIS / DGPS intégré dans un SVCEI? Yes / Oui:_____ No / Non :_____
If yes, please fill below / Si oui, S.V.P. compléter ci-dessous:
ECDIS / SVCEI: Make / Fabriquant:_____ Model:_____
Radar image interfaced / Image radar intégrée?: Yes / Oui:_____ No / Non:_____
Gyro interfaced with ECDIS / Gyro intégré avec SVCEI? Yes / Oui:_____ No / Non:_____
Permanent installation or in evaluation / Installation permanente ou en évaluation :_____

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

1) Fax / Par télécopieur : 613-998-8428 attention AWAD.

2) Mail / Par la poste: Director Marine Aids
Fisheries and Oceans Canada
200 Kent Street, Station 5130
Ottawa, ON
K1A 0E6.

Canada

Legend/
Légende

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
Canadian Coast Guard
Department of Fisheries & Oceans
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
Canadian Coast Guard
Department of Fisheries & Oceans
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) Introduction of a DGPS service (5 stations)	5	-	-
2a) 25% reduction of main commercial channel buoy service (79 lighted buoys removed and 75 changed for unlighted spar buoys).	79 buoys removed; 56 changed for unlit	19 buoys to be changed (unlit)	-
2b) 5 % reduction of main commercial channel buoy service (29 lighted buoys changed for unlighted spar buoys)	-	29	29
3) Removal or privatization of 12 major reference lights in commercial and/or fishing channels	8 (one will no longer be removed)	3	-
4) Privatization or removal of 272 aids to navigation (unique users and/or in inadequately charted waters)	187	85	-
5) 33% reduction (50) of reference lights or fog signals in commercial and/or fishing channels	6 (2 fixed aids + 4 fog signals)	25	19
6) Removal of 20 fixed aids or fog signals in pleasure craft channels	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
CANADIAN COAST GUARD
DEPARTMENT OF FISHERIES & OCEANS
101 CHAMPLAIN BOULEVARD, QUÉBEC, QC, 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
Canadian Coast Guard
Department of Fisheries & Oceans
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

Superintendent, 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) _____

ADD _____ **AMEND** _____ **REMOVE** _____ **NO. OF COPIES** _____

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CENTRAL

ARCTIC

Chart No.	Notice #	Page	Chart No.	Notice #	Page	Chart No.	Notice # Page
7621	2314	28					
	2309	28					
7666	2309	28					
7784	2308	28					
LC 8005	2321	17					

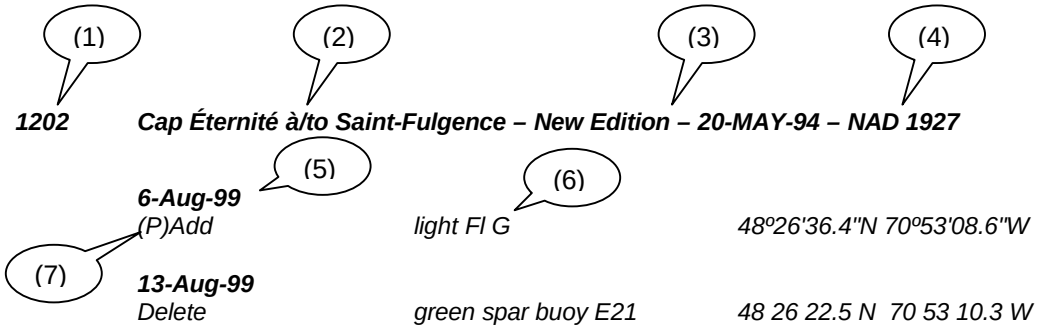
NEWSLETTER

NOTICE TO USERS

In our quest to improve our service to our clients, we are implementing the following changes to the Monthly Edition of Notices to Mariners at the start of the new millennium.

CHART CORRECTIONS – SECTION II

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



(1) Chart Number
(2) Chart Title
(3) Most recent chart edition date
(4) Chart Datum
(5) Weekly chart correction date
(6) Chart action
(7) Notice type

UPCOMING NEW FEATURES

Activity Reports

A Regional Activity Report will be compiled detailing marine aid activities that have not yet been incorporated on charts or related nautical publications. These activity reports will be updated on a monthly basis and are to be used as a reference tool only and should not differ you from using caution when navigating in these areas. Charts and nautical publications will be updated to reflect the changes mentioned in the activity reports as expeditiously as possible.

Paper Mailing List

A renewal subcription address card will be mailed out through the Monthly Edition.

NotMar Internet Site

Publications

As an Internet user you now have access to all the Notices to Mariners publications free of cost. All volumes of the List of Lights, Buoys & Fog Signals as well as the Annual Edition of Notices to Mariners are kept-up-to date on a Monthly basis.

Chart User Profile

Users can set up a 'user profile' account on the site to receive Notices to Mariners chart correction changes via e-mail.

Weekly Posting of Chart Corrections

Chart corrections will soon be posted to the Internet Site on a weekly basis.

We will keep you posted in future Newsletters on the implementation of these new features.

*2362 CANADIAN HYDROGRAPHIC SERVICE - Charts.

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
1. New Chart.					
	GEORGIAN BAY / BAIE GEORGIENNE				
2283	Owen Sound to Giants Tomb Island	1:80 000	July 30/99	3	$25.00
	This new chart incorporates and cancels Notice to Mariners 1724(P)/98.				
2. New Edition.					
	RAINY LAKE / LAC À LA PLUIE				
6107	Rainy Lake (Northwest) Hostess Island to Devils Cascade	1:25 000	Oct. 29/99	3	20.00

3. Charts Permanently Withdrawn.

CHART	TITLE	ON PUBLICATION OF CHART
2212	Wiarton Harbour	2283
2213	Owen Sound Harbour	2283
2214	Meaford	2283
2215	Collingwood	2283

(AMA8035-10-35) (DFO-H99-130)

*2363 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

1. Charts Permanently Withdrawn.

CHART	TITLE	ON PUBLICATION OF CHART
2212 R/M	Wiarton Harbour	
2213 R/M	Owen Sound Harbour	

2214 R/M Meaford

2215 R/M Collingwood

(AMA8035-10-35) (DFO-H99-131)

***2367 CANADIAN COAST GUARD PUBLICATIONS - New Edition of Pacific List of lights, buoys and fog signals - 2000.**

The 2000 Edition of the Pacific List of Lights, Buoys and Fog Signals has been published. Information contained in Notices to Mariners up to and including monthly Edition No. 10 of 1999 has been embodied in this pubication. The price of this publication is $14.95.

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(M2204-397) (CCG-H99-077)

***2368 LAKE HURON - GODERICH - Port facility**

The following public port facility has been transferred. As a consequence, the designations of the related public port have been repealed and the Harbour Master has, therefore, been withdrawn at this site.

Public port facility	Date of transfer and repeal	New owner	Related public port
Goderich, Ontario	November 10, 1999	Town of Goderich	Goderich

(AMA8035-10-1) (CCG-H99-078)

***2366 CANADIAN HYDROGRAPHIC SERVICE - Current chart edition dates.**

CHART EDITIONS The three terms described below are used to indicate the publication status of Canadian charts.
NEW CHART The first publication of a Canadian chart embracing an area Not previously charted to the scale shown, or embracing an area different from any existing Canadian chart.
NEW EDITION A New issue of an existing chart containing amendments essential to Navigation in

addition to those issued in Notices to Mariners and making existing editions obsolete.

REPRINTS A New print of the current edition of a chart incorporating No amendments of Navigational significance other than those previously promulgated in Notices to Mariners. It may also contain amendments from other sources provided they are Not essential to Navigation. Previous printings of the current edition remain in force.

The accompanying list is a listing of the dates of current chart editions up to monthly edition 04 of 1999 (The asterisk indicates changes since Monthly edition 2, 1999). Please refer to the Monthly Notices to Mariners for detail.

	Chart	Cat	Edition Date	Reprint Date
	1	NE	5-Jan-96	
	1202	NE	13-Nov-81	20-May-94
	1203	NE	4-Jan-85	10-Feb-95
	1209	NE	14-Dec-84	2-Aug-96
	1220	NE	28-Feb-97	
*	1221	NE	23-Apr-99	
	1223	NE	3-Oct-97	
	1226	NC	27-May-83	3-May-91
	1229	NE	31-Dec-76	15-Dec-95
	1230	NE	29-Feb-80	10-Feb-89
*	1233	NE	28-May-99	
	L/C 1234	NE	24-Jul-98	
	L/C 1235	NE	25-Apr-97	
	L/C 1236	NE	25-Sep-98	
	1260	NC	4-Jan-91	
*	1310	NE	12-Mar-99	
*	1312	NE	2-Apr-99	
	1313	NE	27-Jun-97	
	1314	NE	4-Sep-98	
	1315	NE	25-Sep-98	
*	1316	NE	26-Feb-99	
*	1317	NE	15-Jan-99	
	1338	NE	5-Apr-96	10-Jul-98
	1339	NE	19-Aug-83	3-Jan-97
	1350	NC	6-Jul-84	25-Mar-94
	1351	NC	21-Sep-84	11-Aug-95
	1361	NC	28-May-76	1-Mar-96
*	1400	NE	25-Jun-99	
*	1409	NE	21-May-99	
*	1410	NE	25-Jun-99	
	1411	NE	2-Aug-96	
*	1432	NC	9-Jul-99	
*	1433	NC	28-May-99	
	1434	NC	1-Mar-96	
	1435	NC	15-Dec-95	
	1436	NC	15-Jan-93	3-Jan-97
	1437	NC	19-Mar-93	30-May-97
	1438	NE	6-Oct-95	
	1439	NE	22-Feb-91	7-Feb-97
	1509	NC	18-May-90	27-Jun-97
	1510	NE	23-Jan-98	
	1512	NE	3-Aug-84	9-Oct-92

	1513	NE	7-Jun-96	
	1514	NC	24-Jul-98	
	1515	NC	24-Jul-98	
	1550	NE	5-Jan-96	
	1551	NE	27-Jun-86	
	1552	NE	5-Jun-98	
	1553	NC	15-Feb-80	21-Apr-95
	1554	NE	16-Sep-88	15-Aug-97
	1555	NC	12-Oct-79	
	L/C 2000	NE	10-Apr-98	
	2006	NE	3-Jul-87	16-Feb-90
	2007	NE	10-Sep-82	9-Sep-94
	2011	NC	8-Jul-88	
	2017	NC	13-Jul-90	
	2018	NC	22-Jun-90	
	2021	NE	25-Jun-93	
	2022	NE	2-Aug-96	
	2023	NE	1-Mar-85	24-Mar-95
	2024	NE	29-Mar-85	16-Dec-94
	2025	NE	1-Mar-85	28-May-93
	2026	NE	5-Apr-85	15-Dec-95
	2028	NE	5-Jun-98	
	2029	NE	20-Mar-87	8-May-92
	2042	NE	7-Oct-94	
	2043	NC	29-Nov-68	26-Mar-82
	2044	NC	28-Feb-97	
	2047	NC	7-Apr-95	
	2048	NC	11-Oct-91	
	2049	NC	10-May-85	
	2050	NC	10-May-85	
	2053	NC	10-May-85	
	2054	NC	10-May-85	
	2055	NC	5-Jul-91	
	L/C 2058	NE	16-Jun-89	
	2059	NC	31-Jul-98	
	L/C 2060	NE	28-Jun-85	1-Jul-94
*	L/C 2064	NE	5-Mar-99	
	2067	NE	1-Nov-85	15-Feb-91
	2069	NE	4-Mar-83	13-Feb-98
	2070	NE	29-Apr-83	
*	L/C 2077	NE	23-Apr-99	
	2085	NE	22-Jun-90	8-Apr-94
	2086	NC	9-Jun-89	3-Apr-92
*	L/C 2100	NE	25-Dec-98	
	L/C 2110	NE	29-May-98	
*	L/C 2120	NE	6-Nov-98	
	L/C 2121	NC	18-Dec-87	
	L/C 2122	NE	5-Jul-91	5-Apr-96
	L/C 2123	NE	12-Mar-93	4-Apr-97
	2140	NC	16-Sep-88	
	2165	NC	8-Mar-91	
	2181	NE	10-Nov-89	
	L/C 2200	NE	1-May-87	17-Apr-92
	L/C 2201	NE	13-Nov-98	

*	2202	NE	26-Mar-99	
	2203	NE	7-Oct-88	13-Nov-92
	2204	NE	6-May-83	12-Feb-93
	2205	NE	18-Dec-87	6-Mar-92
	2206	NC	27-Jun-97	
	2218	NC	13-Apr-84	
	2221	NE	7-Jun-96	
	2222	NC	13-Apr-84	
	2223	NC	13-Apr-84	
	2225	NE	8-Mar-91	11-Jul-97
	2226	NE	22-Nov-91	
L/C	2228	NC	16-Feb-90	
	2235	NE	6-Feb-87	30-Dec-94
	2239	NE	8-Mar-85	1-Mar-96
L/C	2243	NE	30-Aug-85	8-Apr-94
L/C	2244	NE	12-Jun-87	16-Jun-95
L/C	2245	NE	6-Jun-86	5-Apr-96
	2250	NC	9-May-86	
	2251	NC	11-Apr-86	26-Jun-92
	2257	NE	2-Nov-84	7-Jun-96
	2258	NE	16-Jun-89	5-Apr-96
	2259	NE	15-Jun-62	2-Jul-93
*	2260	NE	5-Feb-99	
	2261	NE	13-Jun-86	21-Apr-95
	2266	NC	22-Jun-84	
	2267	NC	22-Jun-84	
	2268	NE	31-Mar-89	6-May-94
	2273	NC	13-Oct-55	22-Aug-75
	2274	NE	8-Jun-90	
L/C	2282	NE	7-Jun-96	
*	2283	NC	30-Jul-99	
L/C	2284	NE	27-Oct-89	7-Jun-96
	2286	NE	21-Jan-83	25-Aug-95
	2289	NE	16-Oct-87	5-Jun-92
	2291	NE	12-Jul-81	15-Apr-88
	2292	NE	28-Apr-89	5-Apr-96
	2293	NE	11-Jun-65	12-Dec-80
	2294	NE	23-Jun-89	24-Jan-97
	2297	NE	20-Jan-60	19-Sep-97
	2298	NE	2-Jul-58	13-Feb-81
	2299	NE	30-Sep-83	30-Jun-95
L/C	2300	NC	24-Apr-98	
L/C	2301	NE	22-Feb-91	
L/C	2302	NE	2-Aug-85	
	2303	NE	18-May-55	29-Jun-90
	2304	NE	31-May-57	1-Feb-80
	2305	NE	17-Dec-56	8-Feb-80
	2306	NE	3-May-57	9-May-75
	2307	NE	31-Aug-56	11-Mar-77
	2308	NE	19-Jul-46	21-Apr-78
* L/C	2309	NE	23-Jul-99	
	2310	NE	3-Jun-46	1-Feb-80
*	2311	NE	23-Apr-99	
	2312	NE	13-Nov-87	8-Apr-94

	2313	NE	21-Jun-57	28-Oct-77
*	2314	NE	23-Apr-99	
	2315	NE	22-Apr-88	
	2318	NE	3-Dec-82	
	2400	NE	29-Jun-90	
	L/C 3000	NE	20-Jan-89	22-Apr-94
	L/C 3001	NE	7-Oct-94	
	L/C 3002	NE	16-Dec-94	
	3050	NE	3-May-96	
	3052	NE	7-Oct-94	
	3053	NC	11-Apr-86	2-Feb-90
	3055	NC	21-Jun-91	
	3056	NC	21-Jun-91	
	3057	NC	21-Jun-91	
	3058	NC	21-Jun-91	
	3061	NC	29-May-81	21-Jun-85
	3062	NC	24-May-85	
	3080	NE	3-Apr-92	
	3311	NE	31-Dec-93	
	3312	NC	31-Jan-86	5-Apr-91
	3313	NC	28-Jul-95	
	3410	NC	24-Mar-95	
	3411	NC	24-Mar-95	
	3415	NE	13-Feb-87	8-Apr-94
	3419	NC	2-Jul-93	
	3424	NC	24-Jul-87	2-Apr-93
*	3440	NE	25-Dec-98	
	3441	NE	12-Aug-88	6-Dec-96
	3442	NE	3-Jun-88	6-Dec-96
	3443	NE	30-Jan-98	
	3457	NE	29-Dec-89	1-May-98
	3458	NE	10-Mar-95	
	3459	NE	24-Oct-97	
	L/C 3461	NC	6-Jan-84	2-Dec-94
	L/C 3462	NE	23-Oct-98	
	L/C 3463	NE	3-Oct-97	
	3473	NE	13-Feb-87	4-Dec-92
	3475	NE	27-May-88	2-Jul-93
	3476	NC	31-Aug-84	22-Apr-94
	3477	NE	3-May-85	8-Sep-89
	3478	NE	24-Feb-95	
	3481	NE	5-Dec-86	17-Dec-93
	3488	NC	21-Oct-94	
	3489	NC	21-Oct-94	
	3490	NE	25-Jul-97	
	3491	NE	5-Jan-96	
	3492	NC	27-Jun-97	27-Nov-98
*	3493	NE	18-Dec-98	
*	3494	NE	18-Dec-98	
*	3495	NE	18-Dec-98	
*	L/C 3512	NE	25-Dec-98	
	L/C 3513	NC	30-Nov-84	19-Feb-93
	3514	NE	2-Aug-96	
	3515	NC	18-Jan-91	3-Jun-94

	3526	NE	24-Feb-95	
	3527	NE	1-Jan-88	2-Apr-93
	3534	NE	7-May-93	
	3535	NE	16-Aug-85	16-Apr-93
	3536	NC	21-Apr-78	16-Apr-93
	3537	NC	27-Sep-85	22-Jun-90
	3538	NE	27-Nov-92	2-Aug-96
	3539	NE	4-Aug-89	25-Apr-97
	3540	NE	22-May-92	
	3541	NE	29-Jul-94	
	3542	NE	1-Jul-94	
	3543	NE	27-Nov-92	30-May-97
	3544	NE	25-Sep-87	1-May-98
	3545	NC	28-Apr-89	12-Aug-94
	3546	NC	28-Apr-89	11-Jul-97
	3547	NC	28-Apr-89	5-Apr-96
	3548	NE	26-Sep-97	
	3549	NC	3-Dec-93	5-Apr-96
	3550	NC	3-Dec-93	2-Jan-98
	3552	NC	2-Jan-87	2-Apr-93
	3555	NE	27-Jun-86	9-Apr-93
	3559	NC	15-Jun-79	2-Feb-90
	3564	NC	4-Dec-87	8-Sep-95
	3598	NE	14-Aug-87	11-Oct-91
	3601	NC	26-Aug-94	
	L/C 3602	NE	24-May-85	12-Aug-94
	L/C 3603	NE	23-Oct-81	1-Nov-91
	L/C 3604	NE	6-Nov-87	13-Jun-97
	L/C 3605	NE	6-Mar-98	
	L/C 3606	NE	27-Jul-84	3-Sep-93
	3623	NE	26-Aug-77	6-Jan-89
	3624	NE	19-Aug-88	22-Apr-94
	3625	NC	25-Oct-68	10-Mar-89
	3646	NE	30-Jun-95	
	3647	NE	5-Jul-85	2-Jan-98
	3651	NE	9-Apr-93	
	3668	NE	12-Mar-93	
	3670	NE	21-Oct-94	
	3671	NE	27-Aug-82	3-Jun-94
	3673	NC	1-Dec-95	
	3674	NC	1-Dec-95	
*	3675	NC	20-Nov-98	
*	3676	NC	20-Nov-98	
	3679	NC	14-Jun-91	21-Feb-97
	3680	NE	7-Apr-78	26-Apr-91
	3681	NC	8-Jun-90	
	3682	NE	5-Jun-87	
	3683	NE	6-Mar-98	
	3685	NE	25-Aug-95	
	3686	NC	8-Apr-88	2-Dec-94
	3710	NE	4-Jul-86	15-Jun-90
	3711	NE	15-Jun-84	19-Feb-93
	3717	NE	28-Jul-95	
	3719	NE	17-Apr-61	11-Nov-88

	3720	NE	12-Feb-88	3-Sep-93
	3721	NE	26-Aug-94	
	3722	NE	7-Feb-64	4-Sep-87
	3723	NE	29-Jun-84	
	3724	NE	23-May-80	21-Apr-95
	3726	NE	23-May-80	6-Jan-89
	3727	NE	29-Jun-62	24-Mar-95
	3728	NE	5-Feb-82	24-Jan-97
	3729	NE	6-Mar-98	
	3730	NC	30-Nov-60	21-Dec-90
	3733A	NC	1-Feb-56	
	3734	NE	9-Jul-76	24-May-91
	3736	NE	31-Aug-90	
	3737	NE	14-Aug-87	21-Apr-95
	3738	NE	4-Feb-83	24-Mar-95
	3739	NE	3-Feb-84	1-Sep-89
	3740	NE	20-May-77	6-Dec-96
	3741	NE	15-Feb-63	30-Jun-89
	3742	NE	16-Jul-82	2-Aug-96
	3743	NE	25-Mar-77	10-Feb-95
	L/C 3744	NE	20-May-88	
	3745	NE	12-Jun-98	
	3746	NE	12-Aug-77	2-Jul-93
	3747	NE	16-Sep-77	30-May-97
	3753	NE	30-Apr-59	12-Aug-88
	3761	NE	19-Aug-88	
	3772	NE	30-Oct-64	29-Jan-93
	3773	NE	26-Apr-85	6-Dec-96
	3781	NE	18-May-59	15-Mar-91
	3784	NE	23-Jul-82	16-Dec-94
	3785	NE	4-Oct-91	12-Jun-98
	3786	NC	5-Jul-46	12-Mar-93
	3787	NE	29-Jul-77	4-Apr-97
	3794	NE	7-Feb-75	17-Mar-89
	3795	NE	1-May-64	9-Jul-93
*	L/C 3802	NE	24-Nov-89	7-May-99
*	3807	NE	5-Feb-99	
	3808	NC	30-Mar-62	13-Oct-89
	3809	NE	24-Aug-79	24-Mar-95
	3811	NE	6-Dec-63	27-Sep-91
	3825	NE	16-Dec-77	9-Jun-89
	L/C 3853	NE	2-Mar-90	5-Apr-96
	L/C 3854	NE	23-Oct-87	23-Apr-93
	3855	NE	13-Jan-67	26-Apr-91
	3857	NE	17-Nov-67	10-Jul-87
	3858	NE	28-Jul-67	28-Jul-89
	3859	NE	21-Aug-98	
	3860	NE	12-Sep-69	5-Jan-90
	3863	NE	25-Apr-80	16-Mar-90
	3864	NE	11-May-62	17-Dec-93
	3865	NE	1-Nov-55	10-Jul-87
	3868	NE	12-Jul-68	19-Apr-91
	3869	NE	28-Nov-86	2-Mar-90
	3890	NC	14-Mar-86	7-Apr-95

	3891	NC	8-Sep-89	1-Aug-97
	3892	NC	13-Jan-84	3-Jun-94
	3893	NC	13-Jan-84	
	3894	NE	12-Jun-98	
	3895	NC	15-Jun-84	9-Jun-89
	L/C 3902	NE	9-Dec-88	27-Jun-97
	3909	NC	11-Dec-87	3-Jun-94
	3920	NC	18-Jan-91	
	3921	NE	15-Dec-95	
	3927	NE	29-May-98	
	3931	NC	21-Feb-92	
	3932	NC	21-Feb-92	12-Jun-98
	3933	NE	20-Jan-89	19-Feb-93
	3934	NC	21-Feb-92	2-Jun-95
	3940	NC	1-Mar-96	
	3955	NC	15-Feb-85	20-May-94
	3956	NE	1-Mar-96	
	3957	NE	5-Jun-98	
	3958	NE	24-Mar-95	
	3959	NC	11-Dec-87	3-Jul-92
*	3960	NC	13-Aug-93	16-Apr-99
	3962	NE	26-Jan-79	18-Jun-93
	3963	NC	26-Oct-90	12-Jun-98
*	3964	NE	30-Apr-99	
	3994	NE	20-Jan-89	22-Sep-95
	4000	NE	14-Dec-84	
	L/C 4001	NE	1-Dec-95	
	L/C 4002	NE	27-Dec-91	5-Jul-96
	L/C 4003	NE	14-Dec-84	29-Jul-94
	L/C 4006	NE	14-Dec-84	19-Feb-93
	L/C 4010	NE	18-Nov-83	10-Jul-92
	L/C 4011	NE	31-Oct-97	
	L/C 4012	NE	13-Mar-87	14-Jul-95
	L/C 4013	NE	7-Nov-86	3-Jul-92
	L/C 4015	NE	24-Jul-92	
	L/C 4016	NE	5-May-95	
	L/C 4017	NE	16-Jun-95	
	L/C 4020	NE	27-Dec-91	
	L/C 4021	NE	27-Dec-91	
	L/C 4022	NE	27-Dec-91	2-Aug-96
	L/C 4023	NE	28-Nov-86	5-Jan-96
	L/C 4024	NE	27-Dec-91	
	L/C 4025	NE	27-Dec-91	
	L/C 4026	NE	27-Dec-91	18-Jul-97
	L/C 4045	NC	8-Aug-86	
	4047	NE	9-Oct-98	
	L/C 4049	NE	19-May-95	
	L/C 4098	NC	21-Sep-84	
	L/C 4099	NC	21-Sep-84	
	4114	NC	8-May-92	
	L/C 4116	NC	9-Apr-93	
	4117	NC	28-Oct-88	
*	L/C 4118	NE	13-Nov-98	
	4124	NC	7-Aug-92	

4130	NC	30-May-69	17-Dec-76
4140	NC	7-Jan-72	2-Jul-82
4141	NE	1-Nov-96	
4142	NE	1-Nov-96	
4145	NE	22-Mar-91	
4170	NC	28-Feb-92	
4201	NE	26-Jan-90	10-Mar-95
4202	NE	31-Dec-99	
4203	NC	7-Aug-87	7-Nov-97
4209	NC	21-Oct-94	
4210	NC	5-Apr-91	
4211	NE	7-Dec-90	2-Jun-95
L/C 4227	NC	24-May-91	
L/C 4230	NC	15-Jun-90	26-Jun-98
L/C 4233	NC	11-Jan-91	
L/C 4234	NC	10-Apr-87	26-Dec-97
L/C 4235	NC	31-Mar-89	
L/C 4236	NC	30-Jan-87	28-Jul-95
L/C 4237	NC	30-Dec-88	30-Jan-98
L/C 4240	NC	6-Oct-89	6-Jun-97
L/C 4241	NC	1-Dec-89	2-Aug-96
L/C 4242	NE	28-Aug-92	
L/C 4243	NC	20-Jun-86	25-Aug-89
4244	NC	21-Feb-86	26-Apr-91
4245	NE	28-Nov-86	25-Dec-92
L/C 4255	NC	27-Jul-90	
4266	NC	29-Sep-89	
4275	NE	23-Dec-83	3-May-96
4276	NE	25-Jul-97	
4277	NE	17-Apr-98	
4278	NE	20-Mar-98	
4279	NE	28-Aug-98	
4281	NE	20-Feb-87	14-Jul-95
4306	NE	14-Jun-85	7-Jun-96
4307	NE	15-Feb-85	13-Nov-92
4308	NE	7-Sep-84	27-Sep-91
L/C 4320	NE	26-Sep-97	
L/C 4321	NE	11-Oct-85	1-Feb-91
4328	NE	10-Jul-98	
4331	NE	19-Oct-84	26-Dec-97
4332	NE	29-Dec-61	24-Jan-97
L/C 4335	NE	14-Aug-98	
4337	NE	3-Jan-86	
L/C 4340	NE	12-Apr-91	
4342	NE	3-Jun-88	26-Apr-91
L/C 4363	NE	1-Nov-85	13-Nov-92
4365	NE	8-Dec-72	29-Feb-80
L/C 4367	NE	1-Nov-85	6-Jul-90
L/C 4374	NE	27-Dec-85	26-Mar-93
L/C 4375	NE	25-Oct-85	1-Jan-93
4376	NE	2-Oct-87	11-Aug-95
4377	NE	6-Nov-98	
4379	NE	31-Oct-86	14-Feb-92
4381	NE	17-Jan-86	3-May-96

	4384	NE	31-Oct-86	13-Aug-93
L/C	4385	NE	7-Jun-96	
	4386	NE	3-Oct-86	24-Mar-95
	4391	NE	21-Feb-92	
	4394	NE	14-Sep-90	
	4395	NE	25-May-90	
	4396	NE	19-Feb-88	30-Jul-93
	4399	NC	3-Apr-42	26-Aug-83
	4402	NE	25-Dec-98	
L/C	4403	NE	21-Jun-85	24-Dec-93
L/C	4404	NE	26-Jul-85	29-Jun-90
L/C	4405	NE	12-Jul-85	21-Jul-89
L/C	4406	NE	27-Feb-98	
	4416	NE	1-May-98	
	4419	NE	12-Aug-88	2-Feb-96
	4420	NE	3-Oct-69	6-Nov-81
	4421	NE	11-Oct-68	23-Mar-79
	4422	NE	10-Oct-69	17-Jun-94
	4425	NE	2-May-80	17-Oct-97
	4426	NE	18-Mar-88	
	4428	NE	6-Oct-78	
	4429	NE	4-Jun-93	
	4430	NE	2-Oct-81	21-May-93
	4432	NE	14-Dec-84	15-Jun-90
	4437	NE	17-May-91	
	4440	NE	18-Jul-80	
	4443	NC	16-Jun-67	18-Feb-77
	4445	NC	17-Jun-49	7-Dec-79
	4446	NC	6-Jan-53	31-Dec-93
	4447	NE	9-Nov-84	
	4448	NE	27-Apr-90	
	4449	NE	3-Jul-98	
	4450	NE	2-Mar-73	13-Nov-87
L/C	4451	NE	27-Mar-87	15-Jul-88
	4452	NE	29-Jul-83	
	4453	NE	17-Dec-82	
	4454	NE	3-Feb-78	
	4455	NE	10-Sep-76	20-Oct-89
*	4456	NE	19-Dec-80	17-Jun-94
*	4459	NE	25-Jun-99	
	4460	NE	11-Sep-87	3-May-91
L/C	4462	NE	28-Jun-85	6-Jun-97
L/C	4463	NE	9-Aug-85	15-Jun-90
L/C	4464	NE	11-Oct-85	15-Jun-90
	4466	NE	17-May-91	1-Mar-96
	4467	NE	21-Mar-69	1-Mar-96
	4468	NE	12-Jul-85	
	4469	NE	8-Nov-85	
	4470	NE	4-Jan-80	
	4471	NE	11-Feb-77	11-Aug-89
	4472	NE	14-Aug-81	
	4473	NE	25-Nov-77	
*	4474	NE	28-May-99	
	4483	NE	12-Aug-88	

	L/C 4485	NE	26-Sep-97	
*	L/C 4486	NE	19-Feb-99	
	4491	NC	6-May-66	1-Feb-80
	4492	NC	4-Feb-66	25-Jul-80
	4497	NE	30-Jul-71	12-Oct-79
	4498	NE	23-Oct-87	3-Nov-95
	4504	NC	14-Feb-64	23-Jan-76
	4505	NC	14-Feb-64	14-Feb-75
	4506	NC	28-Feb-64	25-Jun-82
	4507	NC	28-Feb-64	30-Jan-76
	4509	NC	5-Dec-69	21-Jul-78
	4510	NC	22-Mar-68	15-Jul-94
	4511	NC	10-Jul-64	17-Oct-80
	4512	NC	30-Oct-64	9-Feb-79
	4514	NE	23-Oct-81	29-Sep-89
	4515	NE	20-Nov-98	
	4516	NE	2-Nov-62	10-Dec-76
	4518	NC	18-Oct-51	26-Jan-79
	4519	NC	13-Oct-51	4-Feb-83
	L/C 4520	NE	2-Jun-95	
	4521	NE	4-Jun-65	8-Sep-78
	4522	NC	15-Jul-59	4-Sep-81
	4523	NC	27-Mar-64	13-Jun-75
	4524	NE	7-Feb-64	15-Aug-80
	4529	NE	30-Sep-88	
	4530	NE	11-Mar-83	17-Apr-92
	4531	NC	24-May-74	14-Mar-97
	4535	NC	12-Mar-65	21-Aug-81
	4538	NE	26-Mar-76	
	4540	NC	10-Oct-57	26-Jan-79
	4541	NC	10-Oct-57	3-Oct-80
	4542	NE	9-Sep-66	23-Jan-76
	4543	NC	10-Oct-57	10-Nov-78
	L/C 4560	NE	14-Mar-86	25-Dec-92
	4582	NC	14-Feb-64	10-Sep-76
	4583	NC	16-Jan-61	2-Jul-82
	4584	NC	2-Jan-59	14-Nov-80
	4585	NC	2-Jan-59	29-Aug-80
	4587	NE	4-Sep-87	21-Aug-92
	4591	NC	2-Jan-59	18-Aug-78
	4592	NE	3-Jun-83	2-Apr-93
	4593	NC	20-Jan-60	12-Jun-81
	4594	NC	2-Jan-59	14-Feb-92
	4595	NC	2-Jan-59	4-Feb-83
	4596	NC	2-Jan-59	9-Jan-81
	4597	NC	2-Jan-59	9-Oct-81
	4598	NE	21-Jan-83	
*	4615	NE	20-Aug-99	
	4616	NE	19-Apr-91	17-Oct-97
	4617	NE	19-May-89	25-Apr-97
*	4619	NE	20-Nov-98	
	L/C 4622	NE	25-Apr-97	
	L/C 4624	NE	17-Jan-86	
	L/C 4625	NE	10-Jan-86	22-Apr-88

	L/C 4626	NE	8-Nov-85	22-Apr-88
	4633	NE	24-Apr-87	21-Apr-95
	4634	NE	14-Jul-95	
	4635	NE	24-Jun-83	28-Nov-97
	4637	NE	14-Aug-87	19-May-89
	4638	NC	20-Sep-55	12-Dec-80
	4639	NC	20-Sep-55	12-Dec-80
*	4640	NE	27-Aug-99	
	4641	NE	25-Dec-98	
	4642	NC	18-Jan-60	31-Mar-78
	4643	NE	3-May-85	15-May-92
*	4644	NC	25-Jun-99	
	4652	NE	31-Oct-80	
	4653	NE	12-Mar-76	24-Mar-95
	4654	NC	27-Oct-52	22-Sep-78
	4658	NC	8-May-70	15-Feb-80
	4659	NC	10-Oct-57	8-Sep-78
	4661	NC	20-Sep-55	23-Jun-89
	4663	NC	10-Oct-57	3-Sep-76
	4665	NC	10-Oct-57	8-May-81
	4666	NC	10-Oct-57	20-Jun-86
	4667	NE	8-Oct-65	13-Aug-76
	4668	NC	10-Oct-57	23-Oct-87
	4669	NC	10-Oct-57	29-Mar-85
	4670	NC	10-Oct-57	29-Jul-77
	4679	NE	31-Dec-76	4-Jun-82
	4680	NC	2-Jan-59	27-Feb-76
	4682	NC	19-Oct-62	1-May-87
	L/C 4700	NE	30-Dec-94	
	4701	NC	27-Dec-63	23-Oct-81
	4702	NC	17-Jan-64	28-Sep-90
	4703	NE	31-Jan-64	26-Aug-94
	4712	NC	21-Feb-64	1-Feb-74
	4722	NE	27-Feb-87	
	4724	NE	20-May-60	8-Sep-78
	4725	NC	9-Jun-53	28-Aug-81
	4728	NE	16-Jun-95	
	L/C 4730	NE	7-Oct-83	17-Oct-97
	L/C 4731	NE	16-Dec-94	
	4732	NE	27-Dec-68	22-Feb-80
	4744	NC	22-Feb-63	27-Nov-81
	4745	NC	17-May-63	9-Oct-87
	4763	NC	1-Feb-63	26-Jul-85
	4764	NC	1-Feb-63	9-Nov-90
	4765	NC	29-Nov-63	26-Apr-85
	4766	NC	6-Dec-63	5-Apr-96
	4767	NC	6-Dec-63	6-Jul-90
	4769	NE	19-Sep-75	3-May-85
	4771	NE	2-Jul-76	29-Jul-83
	4773	NC	29-Nov-63	29-Dec-78
	4774	NC	24-Jan-64	19-Mar-82
	L/C 4775	NE	9-Sep-83	2-May-97
	L/C 4776	NE	8-Jul-83	
	L/C 4817	NC	11-Apr-86	

	4830	NC	14-Feb-86	
	L/C 4831	NC	26-Dec-86	
	L/C 4832	NC	2-Oct-87	
	4839	NC	27-Mar-92	
	L/C 4841	NC	19-May-89	
	L/C 4842	NE	3-Mar-89	
	4843	NC	28-Jan-83	
	L/C 4844	NC	1-Feb-85	25-Mar-94
	L/C 4845	NE	12-Sep-97	
	L/C 4846	NE	15-Dec-95	
	L/C 4847	NE	5-Jul-96	
	4848	NC	12-Jun-87	
	4849	NC	30-Dec-88	
	L/C 4850	NC	11-May-90	
	L/C 4851	NE	4-Apr-97	
	4852	NC	2-Dec-94	
*	L/C 4853	NE	30-Jul-99	
	4854	NC	25-Apr-97	
	4855	NC	6-Jun-97	
*	4858	NC	25-Dec-98	
*	4863	NC	22-Jan-99	
	4865	NC	30-Jan-98	
	4885	NE	12-Feb-88	
	4886	NC	26-Dec-97	
	L/C 4905	NC	22-Jul-88	24-Jul-92
	L/C 4906	NC	18-Mar-88	11-Jun-93
	4909	NC	17-Jun-88	1-Mar-96
	4911	NE	7-May-93	
	4912	NE	4-Jun-93	
	L/C 4913	NC	7-Aug-92	
	4920	NE	18-Sep-98	
	4921	NE	6-Mar-98	
	L/C 4951	NC	4-Jan-91	
	L/C 4952	NC	21-Aug-92	
	4954	NE	20-Jun-97	
	4955	NC	15-Feb-91	
	4956	NC	23-Nov-90	
	4957	NC	13-Jul-90	
	4980	NC	3-Jan-92	
	L/C 5001	NE	4-Nov-94	
	5002	NC	25-Jul-75	
	5003	NE	26-Sep-69	23-Jul-76
	L/C 5023	NC	20-Apr-90	
	L/C 5030	NC	26-Oct-90	
	5031	NC	4-Jan-91	
	5042	NC	24-Feb-84	
	5043	NC	29-Jun-84	
	5044	NC	10-Jun-83	
	5045	NC	1-Jul-83	
	5046	NC	13-Jan-84	
	5047	NC	17-Aug-84	
	5048	NC	7-Aug-87	
	5049	NC	8-Apr-88	
	5051	NC	7-Jun-96	

	5052	NC	25-Apr-97	
*	5070	NE	20-Nov-98	
	5080	NC	3-Oct-97	
	5133	NC	10-Oct-69	14-May-82
	5134	NC	11-Aug-67	16-Mar-73
	5135	NC	11-Aug-67	19-Feb-88
	5138	NE	17-Apr-98	
	5140	NC	15-Nov-63	20-Oct-78
	5143	NE	2-May-86	
*	5153	NC	15-Oct-76	
	5179	NC	28-Aug-64	12-Jun-81
	5300	NC	25-Nov-66	25-Nov-77
	5316	NC	24-Aug-61	25-Jan-80
	5335	NC	15-Mar-85	
	5338	NC	6-Jun-86	
	5340	NC	19-Apr-63	14-Dec-79
	5348	NE	5-Nov-76	
	5349	NC	5-Mar-58	3-Mar-78
	5351	NC	24-Feb-56	25-Mar-83
	5352	NE	8-Jul-60	16-May-80
	5365	NC	26-Sep-69	25-Aug-89
	5373	NC	15-Feb-85	
	5374	NC	17-Jan-86	
	5375	NC	28-Feb-86	
	5376	NC	22-Mar-85	
	5390	NC	17-May-68	4-Nov-88
	5391	NC	17-May-68	18-Feb-83
	5396	NC	1-Jun-60	26-Sep-75
	5397	NC	4-Nov-60	18-Nov-83
	5398	NE	4-Sep-81	
	5399	NE	4-Sep-81	
	5400	NE	19-Dec-60	23-Apr-82
	5403	NE	4-Feb-87	
	5405	NC	26-Dec-51	25-Mar-88
	5406	NC	6-Mar-14	15-Aug-80
	5410	NE	25-Mar-77	19-Mar-93
	5411	NE	4-Jun-58	30-Jan-81
	5412	NE	23-Feb-68	27-Apr-84
	5414	NE	6-Aug-37	10-Oct-80
	5427	NC	11-Jun-59	31-Oct-80
	5440	NE	1-Nov-74	6-Feb-81
	5449	NE	15-Aug-86	
	5450	NE	22-May-70	29-Jul-77
	5451	NE	5-Nov-65	22-Mar-85
	5452	NC	16-Dec-54	5-Feb-82
	5455	NE	15-Feb-61	15-Dec-78
	5456	NE	26-May-72	12-Jun-81
	5457	NE	4-Sep-98	
	5458	NE	8-Mar-63	10-Nov-78
	5459	NC	26-Jan-53	6-Feb-81
	5464	NC	16-Dec-54	7-May-82
	5467	NC	18-Mar-55	29-Jun-90
	5468	NC	18-Mar-55	4-Sep-81
	5469	NC	18-Mar-55	12-Nov-82

	5471	NE	12-May-67	4-Dec-81
	5476	NE	3-Jul-59	15-Jun-73
	5510	NE	11-Jan-80	
	5512	NC	18-Dec-87	
	5533	NE	11-Mar-77	
	5620	NE	21-Jun-91	
	5621	NE	26-Apr-91	
	5622	NE	27-Dec-91	
	5623	NE	8-Nov-91	
	5624	NE	26-Apr-91	
	5625	NE	10-Jul-92	
	5626	NC	8-Aug-86	
	5628	NC	8-Aug-97	
	5640	NC	22-Apr-94	
	5705	NE	13-May-83	
	5706	NE	24-Jun-83	
	5707	NE	28-Jan-83	
	5720	NC	22-Apr-94	
	5800	NE	19-Jul-74	22-Mar-91
	5801	NE	24-May-74	
	5860	NE	30-Sep-66	14-May-76
	5861	NE	30-Sep-66	14-May-76
	6021	NE	23-May-86	
	6022	NE	23-May-86	
	6023	NE	26-Feb-88	30-Jun-95
	6026	NC	17-Sep-76	
	6028	NC	15-Jan-71	
	6030	NC	14-Aug-87	
	6035	NC	20-Nov-87	
	6036	NC	28-Aug-87	
	6037	NC	13-Nov-87	
	6038	NC	11-Sep-87	19-Sep-97
	6050	NE	1-Aug-86	
	6100	NC	15-May-87	10-Apr-92
	6101	NC	10-Apr-64	
	6105	NE	20-Jan-89	
	6106	NE	21-Jun-91	
*	6107	NE	29-Oct-99	
	6108	NE	28-Jan-83	5-Jun-92
	6109	NE	30-Mar-90	
	6110	NE	24-Feb-89	15-Dec-95
	6111	NE	11-Mar-83	
	6112	NC	6-Feb-70	25-Mar-94
	6201	NE	16-Mar-73	22-Nov-91
	6205	NC	30-Jun-95	
	6206	NE	2-Apr-82	6-Oct-95
	6207	NE	2-Apr-82	21-Feb-92
	6209	NC	4-Sep-70	
	6211	NC	26-Aug-88	29-Oct-93
	6212	NE	12-Nov-82	21-Apr-95
	6213	NE	10-Aug-84	28-Jul-89
	6214	NC	18-Mar-77	7-Jul-89
	6215	NC	1-Jul-77	8-May-92
	6216	NC	2-Apr-82	28-Feb-92

	6217	NC	18-Jun-76	12-Feb-93
	6218	NE	11-Mar-88	13-Nov-92
	6240	NE	15-Dec-95	
	6241	NE	6-Aug-57	28-May-82
	6242	NE	13-Jun-80	1-May-92
	6243	NE	10-Dec-71	17-Nov-95
	6247	NE	19-Feb-93	
	6248	NC	4-May-34	6-Oct-95
	6249	NE	29-Mar-85	
	6251	NE	18-Jul-86	5-Apr-96
	6258	NC	30-Dec-88	
	6259	NC	23-Feb-90	
	6260	NC	6-Jan-89	
	6263	NC	14-Apr-89	
	6264	NC	14-Apr-89	
	6267	NC	9-Jul-65	28-Aug-81
	6268	NE	15-Jun-62	
	6269	NE	4-Nov-60	11-Mar-77
	6270	NE	9-Nov-73	
	6271	NE	7-Sep-73	
	6272	NE	14-Sep-73	
	6273	NE	28-Sep-73	
	6274	NE	7-Sep-73	
	6281	NE	29-Jan-82	25-Mar-88
	6285	NC	3-Jun-88	
	6286	NC	25-Nov-88	
	6287	NC	11-Jun-82	
	6301	NE	3-May-96	
	6302	NE	20-Apr-73	
	6310	NE	4-May-73	17-Feb-78
	6311	NC	17-Aug-62	
	6321	NC	15-May-57	
	6322	NC	15-May-57	
	6341	NE	14-Jan-91	
	6354	NC	9-Nov-50	
	6355	NE	9-Feb-72	
	6356	NC	30-Oct-49	
	6357	NC	28-Feb-50	13-Apr-73
	6358	NE	18-May-49	28-Jan-72
	6359	NE	24-May-68	
	6360	NC	17-Apr-48	
	6368	NC	16-Jun-58	6-Aug-76
	6369	NE	24-May-85	
	6370	NE	3-Aug-90	
	6371	NE	1-Mar-74	
	6390	NE	8-Feb-80	
	6408	NE	13-Feb-87	
	6409	NE	2-Apr-93	
*	6410	NE	30-Apr-99	
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*	6412	NE	30-Apr-99	
*	6413	NE	30-Apr-99	
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*	6425	NE	30-Apr-99	
*	6426	NE	30-Apr-99	
*	6427	NE	30-Apr-99	
*	6428	NE	30-Apr-99	
	6429	NE	17-Jun-94	
	6430	NE	1-Apr-88	
*	6431	NE	30-Apr-99	
	6432	NE	2-Jun-95	
	6433	NE	2-Mar-84	
	6434	NE	20-Feb-87	
	6435	NE	20-Feb-87	
	6436	NE	31-May-91	
	6437	NE	2-Mar-84	
	6438	NE	2-Apr-93	
	6439	NE	2-Mar-84	
	6440	NE	2-Mar-84	
	6441	NE	20-Feb-87	
	6451	NE	17-Jun-94	
*	6452	NE	30-Apr-99	
*	6453	NE	30-Apr-99	
	6454	NC	15-May-87	
	6455	NC	15-May-87	
	6455_SUPP	NE	1-Jan-89	
	6505	NC	5-Apr-85	28-Feb-86
	6506	NC	12-Apr-85	21-Feb-86
	6730	NC	26-Dec-69	16-Mar-79
	7000	NC	5-Mar-82	
	7010	NE	12-Jan-79	4-Mar-88
	L/C 7011	NE	2-Sep-83	
	7050	NE	3-Feb-89	
	7051	NE	14-Dec-73	8-Aug-86
	7052	NE	10-Jun-66	19-Jul-85
	7053	NE	10-Apr-70	8-Apr-94
	7065	NE	31-May-63	30-Dec-83
	7066	NE	21-Jun-63	30-Aug-85
	7067	NE	30-Apr-71	18-May-90
	7071	NE	31-Jul-64	8-Sep-78
	7072	NE	30-Apr-71	25-Jul-97
	7082	NE	20-May-66	27-Apr-84
	7083	NE	15-Jun-84	
	7103	NE	5-Aug-77	
	7121	NE	17-Nov-72	6-Oct-89
	7122	NE	19-Oct-62	6-Sep-85
	7125	NE	20-Apr-60	26-Sep-80
	7126	NE	8-Mar-54	13-Aug-93

7127	NE	27-May-83	14-Dec-84
7134	NC	23-Jul-93	
7135	NE	7-Mar-58	14-Dec-79
7136	NC	23-Jul-93	
7150	NE	9-Jul-65	1-Oct-82
7170	NE	18-Apr-75	23-Dec-83
7171	NE	15-Apr-60	8-Sep-78
7180	NE	11-Aug-78	
7181	NC	22-Feb-63	4-May-84
7184	NC	10-Jul-64	16-Dec-77
7185	NE	8-Apr-60	27-Apr-84
7193	NC	10-May-63	10-Mar-78
7194	NE	20-Mar-81	
7195	NC	23-Jul-93	
7212	NE	11-Jan-85	
7220	NE	2-Nov-79	16-Mar-84
7292	NC	30-Jan-62	27-Sep-85
7302	NE	18-Aug-78	9-Nov-90
7304	NC	17-Feb-78	6-Sep-85
7310	NC	11-Jul-86	
7371	NE	14-Dec-73	27-Mar-81
7404	NE	17-May-63	2-Sep-83
7405	NE	1-Oct-82	
7411	NE	13-Apr-73	29-Sep-89
7430	NE	21-May-76	7-Oct-83
7465	NE	28-Feb-57	2-Aug-91
7481	NC	21-Aug-92	
7482	NC	21-Aug-92	
7485	NC	17-Mar-89	
7486	NC	10-Feb-89	
7487	NC	10-Jul-87	
7488	NC	8-Mar-91	
7489	NC	28-Aug-92	
7502	NE	31-Jul-98	
7511	NE	29-Dec-89	
7512	NC	5-Jul-85	
7520	NC	1-Jun-84	
7521	NC	1-Jun-84	
7527	NE	12-Apr-74	27-Sep-85
7540	NC	7-Jan-83	
7552	NE	27-Mar-98	
7565	NC	4-Oct-96	
7566	NC	22-Jun-90	
7568	NC	5-Jul-85	
7569	NC	5-Jul-85	
7570	NC	2-May-86	
7571	NC	11-Apr-86	
7572	NC	2-May-86	
7575	NC	6-Mar-92	
7578	NC	27-Jan-95	
7600	NC	26-Jul-85	
7608	NE	4-Jun-76	4-Mar-83
7620	NC	2-May-97	
7621	NC	2-May-97	

7646	NE	2-Feb-73	28-Nov-80
7661	NC	14-Mar-86	
7662	NE	19-Jul-91	
7663	NE	25-Apr-97	
7664	NC	28-Feb-86	
7665	NC	13-Jun-86	
7666	NC	28-Feb-86	
7667	NC	14-Mar-86	
7668	NC	18-May-90	
7669	NC	18-May-90	
7685	NC	28-Feb-86	
7686	NC	27-Mar-81	19-Jan-90
7687	NC	5-Aug-83	
7710	NE	13-Jun-97	
7725	NE	22-Jun-84	
7731	NE	25-May-84	
7733	NE	19-Mar-71	8-Feb-80
7735	NE	14-Aug-70	18-Nov-83
7740	NE	30-May-97	
7750	NE	13-Jun-97	
7760	NC	3-May-68	19-Aug-83
7770	NE	27-Aug-71	4-Jul-80
7776	NE	30-May-97	
7777	NE	30-May-97	
7778	NE	13-Jun-97	
7779	NE	13-Jun-97	
7780	NC	6-Jul-90	
7781	NC	6-Jul-90	
7782	NE	13-Jun-97	
7783	NE	13-Jun-97	
7784	NC	3-Jul-98	
7830	NE	2-Mar-84	
7832	NE	19-Feb-71	6-Mar-81
7920	NE	27-Apr-84	23-May-86
7930	NE	18-May-84	
7935	NE	21-Jun-85	
7940	NE	27-Apr-79	20-Sep-85
7941	NC	5-Jan-73	14-Mar-86
7950	NE	3-May-85	
7951	NE	24-Feb-84	
7952	NE	17-Mar-72	27-Jul-84
7953	NE	5-Apr-96	
7954	NC	17-May-74	17-Jun-83
7980	NC	16-Jan-87	
L/C 8005	NE	7-Dec-84	2-May-97
L/C 8006	NE	5-Aug-88	
L/C 8007	NE	19-Aug-88	
L/C 8010	NE	1-Aug-86	26-May-89
L/C 8011	NE	30-Dec-94	
L/C 8012	NE	4-Nov-94	
L/C 8013	NE	4-Nov-94	
L/C 8014	NE	18-Nov-94	
L/C 8015	NE	16-Dec-94	
L/C 8046	NE	7-Oct-83	

L/C 8047	NE	7-Oct-83	6-Dec-85
L/C 8048	NE	30-Dec-94	
L/C 8049	NE	30-Dec-94	
C-2	NE	1-Jan-99	
C-4	NE	1-Jan-99	

(DFO-H99-071) (DFO-H99-071)

***2361 NEWFOUNDLAND, SOUTHEAST COAST - BONAVISTA BAY - BACON BONE ROCK, RED ROCK AND WESTERN ROCK - Buoys.**

Charts (Last correction) - 4854(NAD 83)(1-3)(2332/98) - 4855(NAD 83)(1,3)(1136/99)

1. Replace	isolated danger spar buoy JR with green spar buoy, marked JR1		48°37'06".7 N 53°28'44".7 W
2. Reposition	green light buoy JB5	from to	48 40 13 N 53 07 21 W 48 40 13.2 N 53 07 27 W
3. Replace	red spar buoy J12 with green lighted spar buoy, Fl G, marked J13		48 34 43.1 N 53 30 02.5 W

NOTE: Digital data products 4854R/M, 4855R/M, 76338(4855) and 76340(4854) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-2) (CCG-N98-225,227, N99-048, DFO-A99-113)

***2318 NEWFOUNDLAND, SOUTH COAST - PLACENTIA BAY - MORTIER BAY - Buoys.**

Chart (Last correction) - 4587(NAD 27)(1-3,5)(490/95) - 4587(Inset, Marystown Wharves/Quais) (NAD 27)(4,5)(490/95)

1. Delete	red conical buoy PM6	47°10'28".5 N 55°08'07" W
2. Add	red lighted spar buoy Fl R, marked PM6	47 10 28 N 55 08 08 W
3. Delete	green can buoy PM9	47 09 59.5 N 55 08 33.8 W
4. Delete	green can buoy PM9	47 09 59.3 N 55 08 33.4 W
5. Add	green lighted spar buoy Fl G, marked PM9	47 09 59 N 55 08 33 W

NOTE: Digital data products 4587R/M, 76225(4587) and 76227(4587) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-2) (CCG-N99-034,036, DFO-A99-082)

***2306 NEWFOUNDLAND, SOUTH COAST - WESTERN PASSAGE AND APPROACHES TO MARGAREE AND FOX ROOST HARBOURS - Buoys.**

Chart (Last correction) - 4640(1-3)(New Edn., August/99)

1. Replace	green can buoy QW3, with green lighted spar buoy Fl G, marked QW3.1	47°34'33" N 59°00'47".5 W
2. Add	green lighted spar buoy Fl G, marked QW5	47 33 57 N 59 02 49.5 W

3. Add	red lighted spar buoy Fl R, marked QM2.2	47 33 57 N 59 03 59.5 W

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-N99-037,100,105, DFO-A99-083)

***2327 NEWFOUNDLAND, SOUTH COAST - Note.**

Chart (Last correction) - 4640(NAD 83)(1)(2306/99)

1. Amend	note	47°35'16" N 59°03'03" W (approx.)

DEPTHS are in fathoms and feet and are reduced to Chart Datum (Lowest Normal Tide), which at Isle aux Morts is 3.6 feet (1.1 metre) below Mean water Level (MWL).

LES PROFONDEURS sont en brasses et pieds et sont réduites au zéro des cartes (la marée normale la plus basse), lequel à Isle aux Morts est de 3.6 pieds (1.1 mètre) au-dessus du niveau moyen de l'eau (NME).

to read

DEPTHS are in feet and are reduced to Chart Datum (Lowest Normal Tide), which at Isle aux Morts is 3.6 feet (1.1 metre) below Mean water Level (MWL).

LES PROFONDEURS sont en pieds et sont réduites au zéro des cartes (la marée normale la plus basse), lequel à Isle aux Morts est de 3.6 pieds (1.1 mètre) au-dessus du niveau moyen de l'eau (NME).

NOTE: Digital data products 4640R/M, 76056(4640), 76057(4640), 76058(4640) and 76059(4640) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-H99-128)

***2357 PRINCE EDWARD ISLAND, EAST COAST - PANMURE HEAD - SOURIS HARBOUR AND EAST POINT - Fog signals.**

Charts (Last correction) - 4419(NAD 27)(1)(321/99) - 4419(Inset, Souris Harbour)(NAD 27)(1,4)(321/99) - 4422(NAD 27)(2)(580/96) - LC 4403(NAD 27)(1-3)(913/99) - LC 4023(NAD 27)(4-7)(2331/99) - LC 4013(NAD 27)(4-6)(2331/99)

Reference: Notice 321/99.

1. Delete	Fog Sig 30 s	46°20'45" N 62°14'53".2 W
2. Delete	Fos Sig (2) 60s	46 08 39 N 62 28 02 W
3. Delete	Fog Sig 60 s	46 27 07 N 61 58 20 W
4. Amend	Fl(3) 5s 86ft 18M to read Iso 4s 89ft 15M	46°20’45” N 62°14’53”2 W
5. Delete	Fog Sig	46 20 45 N 62 14 53.2 W
6. Delete	Fog Sig	46 08 39 N 62 28 02 W
7. Delete	Fog Sig	46 27 07 N 61 58 20 W

NOTE: Digital data products 4013R/M, 4023R/M, 4403R/M, 4419R/M, 4422R/M, 76204(4013), 76248(4403) and 76286(4023) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21) (CCG-G99-054-056, DFO-A99-112)

***2331 NORTHUMBERLAND STRAIT - CARIBOU AND WOOD ISLANDS - Fog signals.**

Charts (Last correction) - 4483(NAD 27)(1)(1503/99) - 4483(Inset, Wood Islands Ferry Terminal/Terminal du Traversier)(NAD 27)(2)(1503/99) - LC 4405(NAD 27)(1,3)(961/98) - LC 4404 (NAD 27)(1,3)(1503/99) - LC 4023(NAD 27)(4)(2329/99) - LC 4013(NAD 27)(4)(1904/99)

Reference: Notice 351(P)/96 cancelled.

1. Delete	Fog Sig (2) 60s	45°45'52".4 N 62°40'53" W
2. Delete	Fog Sig 20s	45 56 54.3 N 62 45 07 W
3. Delete	Fog Sig	45 56 54.3 N 62 45 07 W
4. Delete	Fog Sig	45 45 52.4 N 62 40 53 W

NOTE: Digital data products 4013R/M, 4023R/M, 4404R/M, 4405R/M, 4483R/M, 76155(4404), 76161(4405), 76204(4013) and 76286(4023) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21) (CCG-G99-053,076, DFO-A99-110)

***2330 PRINCE EDWARD ISLAND, NORTH SHORE - ENTRANCE TO RUSTICO BAY - Fog signal.**

Chart (Last correction) - 4467(Plan, Rustico Bay)(NAD 27)(1)(761/96)

1. Delete	Fog Sig 60s	46°27'18".9 N 63°17'33".9 W

NOTE: Digital data products 4467R/M and 76462(4467) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21) (CCG-G99-052, DFO-A99-111)

***2319(T) NORTHUMBERLAND STRAIT - PUGWASH HARBOUR - Buoy established temporarily.**

Chart (Temporarily affected) - 4498(Inset, Pugwash Harbour)(NAD 27)(1)

1. Add	yellow cautionary buoy	45°50'51".8 N 63°39'53".7 W

NOTE: Digital data products 4498R/M and 76184(4498) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-6) (CCG-G99-077, DFO-A99-103)

***2328 PRINCE EDWARD ISLAND, NORTH SHORE - ENTRANCE TO ALBERTON HARBOUR - Light.**

Charts (Last correction) - 4492(1,2)(818/92) - 4492(Inset, Alberton Harbour)(1,2)(818/92) - LC 4023(NAD 27)(1,4)(2325/99) - LC 4002(NAD 27)(3)(1959/99)

1. Amend	Fl(2) 10s 60ft 16M to read Iso 60ft 7M	46°47'56".2 N 64°02'12".2 W
2. Delete	Fog Sig 20s	46 47 56.2 N 64 02 12.2 W
3. Amend	Fl (2) 16M to read Iso 7M	46 47 56.2 N 64 02 12.2 W
4. Delete	Fog Sig	46 47 56.2 N 64 02 12.2 W

NOTE: Digital data products 4002R/M, 4023R/M, 4492R/M, 76286(4023) and 79076(4002) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-7-6) (CCG-G99-059,060, DFO-A99-108)

***2325 PRINCE EDWARD ISLAND, SOUTH COAST - WEST POINT AND CAPE EGMONT - Fog signals.**

Charts (Last correction) - LC 4406(NAD 83)(1)(1913/98) - LC 4905(NAD 83)(1,2)(954/98) - LC 4023(NAD 27)(3,4)(1118/99)

1. Delete	Fog Sig 30s	46°24'26" N 64°08'06" W
2. Delete	Fog Sig 30s	46 37 05.4 N 64 22 18 W
3. Delete	Fog Sig	46 24 26 N 64 08 06 W
4. Delete	Fog Sig	46 37 05.4 N 64 22 18 W

NOTE: Digital data products 4023R/M, 4406R/M, 4905R/M, 76076(4905) and 76286(4023) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21) (CCG-G99-057,058, DFO-A99-107)

***2358 BAY OF FUNDY - MINAS BASIN - OFF MEDFORD - Anchorage**

Charts (Last correction) - 4140(1)(728/94) - LC 4010(NAD 27)(2)(1132/99)

1. Delete	Anchorage	45°12'10" N 64°18'39".8 W

2. Delete	anchorage	45 12 14 N 64 17 59 W

NOTE: Digital data products 4010R/M and 4140R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-A99-114)

***2329 NORTHUMBERLAND STRAIT - RICHIBUCTO CAPE - Fog signal.**

Charts (Last correction) - 4909(Plan, Richibucto Harbour)(NAD 83)(1)(812/96) - LC 4905(NAD 83)(1)(2325/99) - LC 4906(NAD 83)(1)(524/99) - LC 4023(NAD 27)(2)(2328/99)

1. Delete	Fog Sig 30s	46°40'11".3 N 64°42'42" W
2. Delete	Fog Sig	48 40 11.3 N 64 42 42 W

NOTE: Digital data products 4023R/M, 4905R/M, 4906R/M, 4909R/M, 76062(4906), 76076(4905) and 76286(4023) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21) (CCG-G99-075, DFO-A99-109)

***2320 NOVA SCOTIA, SOUTHWEST COAST - LOBSTER BAY - BIG FISH ISLAND - Fog signal.**

Charts (Last correction) - 4244(NAD 27)(1)(2133/99) - LC 4230(NAD 83)(2)(2133/99)

1. Delete	Fog Sig 30s	43°42'12".5 N 65°57'08" W
2. Delete	Fog Sig 30s	43 42 12.8 N 65 57 05.8 W

NOTE: Digital data products 4230R/M, 4244R/M, 76044(4230) and 76048(4244) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21) (CCG-F99-117, DFO-A99-106)

***2307(P) BAY OF FUNDY - GRAND MANAN - GRAND HARBOUR AND OFF WOOD ISLAND - Buoys.**

Chart (Which will be affected) - LC 4340(NAD 27)(1-4)

1. Replace	green spar buoy XK15 with green light buoy Fl G, marked XK11	44°39'27".5 N 66°45'13" W
2. Amend	XK13 to read XK9 against green spar buoy	44 39 09 N 66 45 23 W
3. Replace	green spar buoy XV5 with north cardinal spar buoy, marked XV	44 44 24 N 66 43 57.5 W
4. Delete	green spar buoy XB1	44 37 21 N 66 48 19 W

NOTE: (1) Digital data products 4340R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(2) The above information will be included in the new edition of chart L/C 4340, which will be made available at a later date.

(AMA8035-10-5-7) (CCG-F99-104, (DFO-A99-104)

***2303 BAY OF FUNDY - GRAND MANAN - ENTRANCE TO GRAND HARBOUR AND LONG ISLAND BAY - Buoys.**

Chart (Last correction) - 4342(Plan, Grand Harbour)(NAD 27)(1-3)(656/92) - 4342(Plan, Long Island Bay)(NAD 27)(4)(656/92)

1. Replace	green spar buoy XK15 with green light buoy Fl G, marked XK11	44°39'27".5 N 66°45'13" W
2. Amend	XK13 to read XK9 against green spar buoy	44 39 09 N 66 45 23 W
3. Delete	green spar buoy XK17	44 39 50 N 66 45 16 W
4. Replace	green spar buoy XV5 with north cardinal spar buoy, marked XV	44 44 25 N 66 43 56 W

NOTE: Digital data products 4342R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-7) (CCG-F99-087,088,092,103, DFO-A99-098)

2321 UNITED STATES, EAST COAST - NANTUCKET SHOALS - Buoys.

Charts (Last correction) - LC 8005(NAD 27)(1,2)(1512/99) - LC 4003(NAD 27)(1,2)(1965/99)

1. Delete	fairway light buoy N	40°30'00" N 69°25'30" W
2. Add	yellow light and whistle buoy Fl Y 6s, Racon, WHIS, marked N	40 30 09 N 69 14 48 W

NOTE: Digital data products 4003R/M, 8005R/M 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-W99-022)

***2326 ST. LAWRENCE RIVER - ÎLE AUX COUDRES - Shoal depths.**

Chart (Last Correction) - 1233(Inset, Îles aux Coudres)(NAD 27)(1-5)(New Edn., May/99)

1. Add	2 metres 9 decimetres	47°25'13".8 N 73°23'37".3 W
2. Replace	drying height of 1 metre 1 decimetre with a drying height of 1 metre 6 decimetres	47 25 11.6 N 70 23 33.1 W
3. Add	1 metre 7 decimetres	47 25 13.5 N 70 23 35.9 W
4. Add	drying height of 0 metre 1 decimetre	47 25 13.2 N 70 23 35.5 W

5. Replace	0 metre 8 decimetres with a drying height of 0 metre 2 decimetres	47 25 12.3 N 70 23 32.5 W

NOTE: Digital data products 1233R/M and 79023(1233) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-Q99-104)

***2302(P) ST. LAWRENCE RIVER - REPENTIGNY - MONTREAL - Buoys and lights.**

Chart (Which will be affected) - 1310(Compartment A-B)(NAD 83)(1-30)(1315/99) - 1310 (Compartment B-C)(NAD 83)(31,32)(1315/99) - 1310(Inset, Quai Alexandra)(NAD 83)(31,32)(1315/99)

1. Reposition	green spar buoy MV1	from	45°44'06".6 N 73°26'18".5 W
		to	45 44 07.2 N 73 26 17.4 W
2. Reposition	red spar buoy MV2	from	45 44 08.3 N 73 26 23.2 W
		to	45 44 09 N 73 26 23.4 W
3. Reposition	green spar buoy MV3	from	45 43 56.1 N 73 26 29.5 W
		to	45 43 56 N 73 26 30 W
4. Reposition	red spar buoy MV4	from	45 43 59.6 N 73 26 32.5 W
		to	45 44 00 N 73 26 31.8 W
5. Reposition	green spar buoy MV5	from	45 43 47.3 N 73 26 39.4 W
		to	45 43 47.4 N 73 26 38.4 W
6. Reposition	red lighted spar buoy MV6	from	45 43 48.3 N 73 26 41.8 W
		to	45 43 49.2 N 73 26 40.2 W
7. Reposition	green spar buoy MV7	from	45 43 41.9 N 73 26 53.9 W
		to	45 43 39.6 N 73 26 54 W
8. Reposition	red spar buoy MV8	from	45 43 44.3 N 73 26 55.3 W
		to	45 43 44 N 73 26 55 W
9. Reposition	green spar buoy MV9	from	45 43 36.7 N 73 27 08.8 W
		to	45 43 37.3 N 73 27 07.6 W
10. Reposition	red spar buoy MV10	from	45 43 41.2 N 73 27 06.1 W
		to	45 43 40.2 N 73 27 07.2 W
11. Reposition	green spar buoy MV11	from	45 43 30 N 73 27 14.2 W
		to	45 43 30 N 73 27 14 W
12. Reposition	red spar buoy MV12	from	45 43 31.9 N 73 27 16.2 W
		to	45 43 32.4 N 73 27 15.6 W
13. Reposition	red spar buoy MV14	from	45 43 16.1 N 73 27 34 W
		to	45 43 22.2 N 73 27 27 W
14. Reposition	red spar buoy MV16	from	45 43 10.4 N 73 27 43.7 W
		to	45 43 11 N 73 27 43 W
15. Delete	green pillar buoy MV17		45 43 04.2 N 73 27 49.3 W

16. Add	green spar buoy, marked MV17		45 43 03.6 N 73 27 47.4 W
17. Reposition	red spar buoy MV18	from to	45 43 03.2 N 73 27 52.8 W 45 43 02.4 N 73 27 54 W
18. Reposition	green spar buoy MV19	from to	45 42 56.8 N 73 27 52.2 W 45 42 52.8 N 73 27 51 W
19. Reposition	green spar buoy MV21	from to	45 42 43.2 N 73 27 59.4 W 45 42 44.4 N 73 27 57.6 W
20. Reposition	green spar buoy MU1	from to	45 42 44.8 N 73 27 07.1 W 45 42 44.4 N 73 26 59.4 W
21. Reposition	red spar buoy MU2	from to	45°42'44"5 N 73°27'12" W 45 42 46.8 N 73 27 10.2 W
22. Reposition	green spar buoy MU3	from to	45 42 31.6 N 73 27 25 W 45 42 32.4 N 73 27 24.6 W
23. Reposition	red spar buoy MU4	from to	45 42 34.4 N 73 27 28 W 45 42 35.4 N 73 27 23.4 W
24. Reposition	green spar buoy MU5	from to	45 42 34.3 N 73 27 40.9 W 45 42 33.6 N 73 27 40.2 W
25. Reposition	red spar buoy MU6	from to	45 42 35.7 N 73 27 38.9 W 45 42 35.4 N 73 27 37.8 W
26. Reposition	green spar buoy MU7	from to	45 42 34.2 N 73 27 58.7 W 45 42 34.2 N 73 27 56.4 W
27. Amend	F G 11m to read F G 13m		45 42 44.8 N 73 26 22.8 W
28. Amend	F G Iso G 2s 31m to read F G 31m Iso G		45 41 36.7 N 73 27 37.6 W
29. Amend	F G 11m to read F G 10m		45 41 06.8 N 73 27 32.7 W
30. Amend	F G 21m to read F G 23m		45 41 21.7 N 73 26 24.8 W
31. Delete	light F Y		45 30 00 N 73 32 52.4 W
32. Delete	light F Y		45 29 59.6 N 73 32 45.8 W

NOTE: (1) Digital data products 1310R/M, 79001(1310), 79002(1310) and 79080(1310) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(2) A new edition of chart 1310 incorporating the above changes will be available at a later date

(AMA8035-10-5-9) (CCG-L99-107,108,110,111, DFO-Q99-105)

***2304 ST. LAWRENCE RIVER - CANADIAN MIDDLE CHANNEL - Chart amendment.**

Chart (Last correction) - 1438(NAD 83)(1)(1930/99)

Reference: Notice 1930/99.

On certain copies.

1. Add green spar buoy, marked J5\1 44°19'27" N 76°07'42" W

NOTE: Digital data products 1438R/M and 73025(1438) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-H99-126)

***2300 LAKE ONTARIO - BAY OF QUINTE - Chart amendment.**

Chart (Last correction) - 2007(NAD 27)(1)(1926/99)

Reference: Notice 1926/99.

On certain copies.

1. Delete Fl G against green spar buoy Q39 44°09'46" N 77°07'35" W

NOTE: Digital data products 2007R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-H99-124)

***2356 LAKE ONTARIO - BAY OF QUITE - Buoy.**

Charts (Last correction) - 2007(NAD 27)(2)(2300/99) - 2069(NAD 27)(2)(1909/99) - 2011(NAD 83)(1)

Reference: Notice 2171(P)/98.

1. Delete starboard bifurcation buoy QMB 44°08'57".5 N 77°22'27" W

2. Delete starboard bifurcation buoy QMB 44 08 57 N 77 22 27 W

NOTE: Digital data products 2007R/M, 2011R/M, 2069R/M and 73153(2069) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-14) (CCG-B99-036, DFO-C99-180)

***2340 LAKE ONTARIO - BAY OF QUINTE - Buoy.**

Chart - 2011(NAD 83)(1)

Reference: Notice 2171(P)/98.

1. Delete red spar buoy QM2 44°09'07" N 77°22'28" W

NOTE: Digital data products 2011R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-14) (CCG-B99-026, DFO-C99-179)

***2338 LAKE ONTARIO - BAY OF QUINTE - Buoy.**

Chart - 2011(NAD 83)(1)

Reference: Notice 2171(P)/98.

1. Add	red spar buoy marked Q56/2	44°08'55".5 N 77°22'56" W

NOTE: Digital data products 2011R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-14) (DFO-C-99-171, CCG-B99-028)

***2359 LAKE ERIE, EASTERN PORTION - Lights.**

Charts (Last correction) - LC 2100(NAD 83)(1,2)(N.Ed.12/98)

1. Add	light Fl R	42°41'35".8 N 79°02'42".8 W
2. Add	light Fl G	42 41 29 .8 N 79 02 42 .8 W

NOTE: Digital data products 2100R/M and 73094(2100) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-H99-129)

***2342 LAKE HURON - GEORGIAN BAY - PENETANG HARBOUR - Buoy and light.**

Chart (Last correction) - 2218(NAD 27)(1,2)(597/94)

1. Delete	green spar buoy ME5	44°47'58" N 79°56'17" W
2. Delete	light	44 46 28 N 79 56 26 W

NOTE: Digital data products 2218R/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-D99-029, DFO-C99-172)

***2316 LAKE HURON - GEORGIAN BAY - SOUTH BAYMOUTH - Fog signal.**

Charts - 2273 - 2235(NAD 27) - 2298 - LC 2200(NAD 27)

Reference: Notice 180(P)/94 cancelled.

NOTE: Digital data products 2200R/M, 2235R/M, 2273R/M, 73001(2273), 73057(2235), 73074(2298) and 73095(2200) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-163)

***2354 LAKE HURON - GEORGIAN BAY - FISHERMAN POINT - Range lights.**

Chart (Last correction) - LC 2201(NAD 83)(1)(2126/99)

1. Delete	range lights	44°30'30" N 80°12'30" W (approx.)

NOTE: Digital data products 2201R/M and 73097(2201) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-7-13) (CCG-D99-022, DFO-C99-170)

***2334 LAKE HURON - GEORGIAN BAY - TWELVE MILE BAY TO ROSE ISLAND - Depths.**

Chart - 2202(Sheet 3)(Twelve Mile Bay to/à Rose Island)(NAD 27)(1-9) - 2202(Sheet 4) (Compartment D-e)(South Channel Amanda Island to/à Parry Sound)(NAD 27)(7-9)

1. Add	6	45°13'18".8 N 80°13'29".4 W
2. Add	rock which covers and uncovers with a drying height of 3 feet	45 10 10.5 N 80 09 17.8 W
3. Add	29	45 08 10 N 80 08 06 W
4. Delete	37	45 09 09.4 N 80 08 04.5 W
5. Add	9	45 10 15.5 N 80 07 23.5 W
6. Add	3	45 10 52.4 N 80 07 16 W
7. Add	2	45 18 37.9 N 80 15 55.4 W
8. Delete	8	45 18 37.9 N 80 15 55.4 W
9. Add	12	45 16 20.1 N 80 13 51.8 W

NOTE: Digital data products 2202R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-165)

***2337 LAKE HURON - GEORGIAN BAY - LYON ROCKS TO WALTON ISLANDS - Depths.**

Chart - 2203(Sheet 1)(Compartment B-C)(Carling Rock to/à Twin Sisters Island)(NAD 27)(1-6) - 2203(Sheet 1)(Compartment A-B)(Parry Sound to/à Carling Rock)(NAD 27)(3-6)

1. Add	5	45°22'06.7 N 80°19'39".2 N
2. Add	rock which covers and uncovers with drying height of 1 foot	45 22 02.7 N 80 19 16.6 W
3. Delete	7	45 20 51 N 80 16 07 W
4. Add	2	45 20 50.5 N 80 16 10 W
5. Delete	8	45 18 38 N 80 15 55 W
6. Add	2	45 18 37.9 N 80 15 55.3 W

NOTE: Digital data products 2203R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-166)

***2335 LAKE HURON - GEORGIAN BAY - APPROACHES TO PARRY SOUND - Depths.**

Chart (Last correction) - 2225(NAD 27)(1-15)(1708/99)

1. Add	18	45°21'06".1 N 80°25'52".8 W
2. Delete	10	45 20 53 N 80 21 42 W
3. Add	3	45 20 54.1 N 80 21 41.2 W
4. Add	2	45°19'53"7 N 80°22'52".9 W
5. Delete	10	45 19 02 N 80 21 13 W
6. Add	4	45 19 01.2 N 80 21 15.2 W
7. Add	4	45 19 20.9 N 80 20 08.5 W
8. Add	5	45 22 06.5 N 80 19 39.2 W
9. Add	rock which covers and uncovers with drying height of 1 foot	45 22 02.5 N 80 19 16.5 W
10. Delete	7	45 20 51 N 80 16 08 W
11. Add	2	45 20 50.3 N 80 16 09.9 W
12. Delete	8	45 18 38 N 80 15 54 W
13. Add	2	45 18 37.8 N 80 15 55.2 W
14. Add	12	45 16 20 N 80 13 51.7 W
15. Add	4	45 23 19.5 N 80 22 14.2 W

NOTE: Digital data products 2225R/M and 73011(2225) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-167)

***2336(T) LAKE HURON - GEORGIAN BAY - BATEAU ISLAND TO BYNG INLET - Depths.**

Chart (Temporarily affected) - LC 2243(NAD 27)(1-15)

1. Add	17	45°24'11" N 80°34'46".9" W
2. Add	7	45 22 54.8 N 80 30 42.7 W
3. Add	16	45 25 27.2 N 80 28 30.1 W
4. Add	25	45 25 11.2 N 80 29 25.9 W

5. Add	1	45 25 40.8 N 80 28 15.6 W
6. Add	8	45 25 28.8 N 80 25 51 W
7. Delete	28	45 25 26.8 N 80 25 51 W
8. Add	16	45 24 15 N 80 25 12.3 W
9. Add	19	45 23 55.9 N 80 24 56.9 W
10. Add	9	45 25 13.1 N 80 23 44.6 W
11. Add	7	45 25 05 N 80 23 30 W
12. Add	24	45 24 50.6 N 80 23 44.6 W
13. Add	4	45°23'19".7 N 80°22'14".2 W
14. Add	26	45 25 26.4 N 80 29 19.2 W
15. Delete	34	45 25 27.2 N 80 29 12.1 W

NOTE: Digital data products 2243R/M and 73053(2243) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-164)

***2339 LAKE HURON - PORT ELGIN - Buoys.**

Chart (Last correction) - 2291(NAD 83)(1)(1707/99) - 2291(Inset, Port Elgin)(NAD 83)(2-4)(1707/99)

1. Reposition	green spar buoy VC3	from to	44°26'46" N 81°24'35" W 44 26 50 N 81 24 45 W
2. Delete	green spar buoy VC3		292° 1500 feet from front range
3. Delete	green spar buoy VC5		292° 1/2 1020 feet from front range
4. Delete	red spar buoy VC6		288° 1020 feet from front range

NOTE: Digital data products 73082(2291) and 73085(2291) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13) (CCG-D99-028, DFO-C99-175)

***2341 LAKE HURON - GEORGIAN BAY - YEO ISLAND - Buoy.**

Charts (Last correction) - 2235(NAD 27)(1)(2124/99) - 2298(2)(103/99)

1. Delete	green spar buoy J5	45°24'09" N 81°45'56" W
2. Delete	green spar buoy J5	45 24 10 N 81 46 00 W

NOTE: Digital data products 2235R/M, 73057(2235) and 73074(2298) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13) (CCG-D99-037, DFO-C99-176)

***2355 LAKE HURON - NORTH CHANNEL - LITTLE CURRENT - Buoys.**

Charts (Last correction) - 2294(NAD 27)(1-7)(1719/99) - 2205(NAD 27)(1-6)

1. Reposition	red spar buoy J26	from	45°58'26" N 81°53'50".5 W
		to	45 58 21 N 81 53 46 W
2. Delete	green spar buoy J27		45 58 31 N 81 54 04 W
3. Delete	red spar buoy J30		45 58 38 N 81 54 05 W
4. Delete	green spar buoy J47		45 59 15 N 81 55 51 W
5. Reposition	red conical buoy J54	from	45°59'30" N 81°56'33" W
		to	45 59 29.5 N 81 56 31 W
6. Delete	red spar buoy J58		45 59 33 N 81 56 55 W
7. Reposition	red conical buoy J60	from	45 59 32 N 81 57 02 W
		to	45 59 32.5 N 81 57 07 W

NOTE: Digital data products 2205R/M, 2294R/M and 73150(2294) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13) (CCG-D99-021, DFO-C99-169)

***2343 LAKE HURON - NORTH CHANNEL - CLAPPERTON ISLAND - Buoy.**

Charts (Last correction) - 2257(NAD 27)(1)(959/98) - 2299(NAD 27)(1)(1947/99)

1. Delete	green spar buoy JN1	45°59'54" N 82°14'50" W

NOTE: Digital data products 2257R/M, 2299R/M, 73044(2257) and 73059(2299) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13) (CCG-D99-020, DFO-C99-168)

***2352 LAKE HURON - NORTH CHANNEL - GORE BAY - Buoy.**

Charts (Last correction) - 2257(NAD 27)(1)(2351/99) - 2299(NAD 27)(1)(2351/99)

1. Delete	green spar buoy JE3	45°55'08" N 82°27'33" W

NOTE: Digital data products 2257R/M, 2299R/M, 73044(2257) and 73059(2299) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13) (CCG-D99-032, DFO-C99-174)

***2351 LAKE HURON - NORTH CHANNEL - GORE BAY - Range lights.**

Charts (Last correction) - 2257(NAD 27)(1)(2343/99) - 2299(NAD 27)(1)(2343/99)

1. Delete	range lights	45°54'50" N 82°27'35" W (approx.)

NOTE: Digital data products 2257R/M, 2299R/M, 73044(2257) and 73059(2299) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-7-13) (CCG-D99-065,066, DFO-C99-177)

***2353 LAKE HURON - NORTH CHANNEL - MELDRUM BAY - Buoy.**

Charts (Last correction) - 2299(NAD 27)(1)(2352/99) - 2297(2)(1727/99)

1. Delete	green spar buoy JK3	45°57'40" N 83°03'12" W
2. Delete	green spar buoy JK3	45 57 39 N 83 03 14 W

NOTE: Digital data products 2299R/M, 73059(2299) and 73075(2297) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-13) (CCG-D99-031, DFO-C99-173)

***2311 LAKE HURON - NORTH CHANNEL - THESSALON HARBOUR - Rock.**

Chart (Last correction) - 2251(NAD 27)(1)(2125/99) - 2251(Inset, Thessalon Harbour)(NAD 27) (1)(2125/99)

1. Replace	drying height of 0m with 0.1m	46°14'53".1 N 83°32'23" 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-C99-160)

***2315 LAKE SUPERIOR - PORT MUNRO - Foul area.**

Charts (Last correction) - 2304(U.S. Standard)(1,2)(926/99) - 2306(U.S. Standard)(1,3)(927/98)

1. Delete	legend "Storage Area"	48°46'12" N 86°25'54" W
2. Add	foul area dangerous to surface navigation	48 46 02 N 86 25 50 W
3. Add	legend "Foul Area"	48 46 16 N 86 25 51 W

NOTE: Digital data products 2304R/M, 2306R/M and 73067(2304) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-161)

***2305 LAKE SUPERIOR - THUNDER CAPE TO PIGEON RIVER - Note.**

Chart (Last correction) - 2311(NAD 83)(1)(New Edn., April/99)

1. Amend Note 47°53'00" N 88°43'00" W (approx.)

CAUTION - ADJUSTMENT
Subtract 1.7 feet (0.5 metres) from depths and add 1.7 feet (0.5 metres) to drying heights, clearances and elevations on this chart to adjust them to the presently adopted chart datum of 601.6 feet (183.2 metres) above International Great Lakes Datum (IGLD) 1985.

ATTENTION – ADJUSTEMENT
Soustraire 1.7 pied (0.5 mètre) des prodondeurs et ajouter 1.7 pied (0.5 mètre) aux sondes découvrantes, aux altitudes et aux hauteurs libres pour les ajouter au zéro des cartes présentement adopté de 601.6 pieds (183.2 mètres) au-dessus du Système de référence International des Grands Lacs (SRIGL) 1985.

to read

CAUTION – ADJUSTMENT
Subtract 1.7 feet (0.5 metres) from depths and add 1.7 feet (0.5 metres) to drying heights, clearances and elevations on this chart to adjust them to the presently adopted chart datum of 601.0 feet (183.2 metres) above International Great Lakes Datum (IGLD) 1985.

ATTENTION – ADJUSTEMENT
Soustraire 1.7 pied (0.5 mètre) des prodondeurs et ajouter 1.7 pied (0.5 mètre) aux sondes découvrantes, aux altitudes et aux hauteurs libres pour les ajouter au zéro des cartes présentement adopté de 601.0 pieds (183.2 mètres) au-dessus du Système de référence International des Grands Lacs (SRIGL) 1985.

NOTE: Digital data products 2311R/M and 73065(2311) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-H99-127)

***2317 LAKE SUPERIOR - THUNDER BAY - Submarine cable.**

Charts (Last correction) - LC 2301(U.S. Standard)(2)(2116/99) - 2314(NAD 83)(1)(New Edn., April/99)

1. Add	submarine cable	joining	48°26'22" N 89°12'33" W
		and	48 26 16 N 89 12 14 W
2. Add	submarine cable	joining	48 26 22.6 N 89 12 32.4 W
		and	48 26 16.6 N 89 12 13.4 W

NOTE: Digital data products 2301R/M, 2314R/M, 73014(2314), 73015(2314), 73016(2314), 73017(2314) and 73070(2301) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-162)

***2310 LAKE SUPERIOR - THUNDER BAY - MISSION RIVER ENTRANCE - Range line.**

Chart (Last correction) - 2314(NAD 83)(1)(New Edn., April/99)

1. Amend	range bearing 071° to read 109°	48°21'22" N 89°13'18" W

NOTE: Digital data products 2314R/M, 73014(2314), 73015(2314), 73016(2314) and 73017(2314) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-C99-153)

***2308 NORTHWEST TERRITORIES - VICTORIA STRAIT - Depths.**

Charts (Last correction) - 7784(NAD 83)(2,3)(1729/98) - 7083(1)(1729/98)

1. Add	10 fathoms	69°36’00” N 100°08’00” W
2. Delete	19.5 metres	69 36 12.8 N 100 08 22.8 W
3. Add	18.4 metres	69 36 12.8 N 100 08 22.8 W

(AMA8035-10-35) (DFO-C99-004)

***2314 NORTHWEST TERRITORIES - DOLPHIN AND UNION STRAIT - CAPE BEXLEY - Sounding.**

Charts (Last correction) - 7621(NAD 83)(1)(2309/99) - 7082(NAD)(2)(607/97)

On certain copies.

1. Delete	sounding 3.7 PD	69°02'25" N 115°52'52" W
2. Delete	sounding 2 PD	69 02 30 N 115 52 30 W

(AMA8035-10-35) (DFO-C99-147)

***2309 NORTHWEST TERRITORIES - AMUNDSEN GULF - Depth and aeronautical radiobeacon.**

Charts (Last correction) - 7666(NAD 27)(3,4)(571/97) - 7621(NAD 83)(1,2)(571/97)

1. Add	0.7m	69°46'55" N 121°34'00" W
2. Add	aeronautical radiobeacon	69 40 22 N 121 40 22 W
3. Add	0.7m	69 46 53.8 N 121 33 51.8 W
4. Add	aeronautical radiobeacon	69 40 20.8 N 121 40 13.8 W

(AMA8035-10-35) (DFO-C99-152)

Nova Scotia (Atlantic Coast) and Bay of Fundy, First Edition, 1990 —

Page 253 — Paragraph 88, lines 3 to 5
Delete: "A **fog signal**" to end of sentence.

(A21/99)

Gulf of St. Lawrence, First Edition, 1992 —

Page 105 — Paragraph 84, lines 2 to 4
Delete: "A **fog signal**" to end of sentence.

(A23/99)

Page 106 — Paragraph 94, lines 3 to 5
Delete: "A **fog signal**" to end of paragraph.

(A23/99)

Page 108 — Paragraph 115, lines 3 to 5
Delete: "A **fog signal**" to end of sentence.

(A23/99)

Page 116 — Paragraph 177, lines 7 to 9
Delete: "A **fog signal**" to end of sentence.

(A23/99)

Page 117 — Paragraph 201, lines 3 to 5
Delete: "A **fog signal**" to end of sentence.

(A23/99)

Page 124 — Paragraph 56, lines 3 to 5
Delete: "A **fog signal**" to end of paragraph.

(A23/99)

Page 131 — Paragraph 113, lines 6 to 8
Delete: "A **fog signal**" to end of sentence.

(A23/99)

Page 141 — Paragraph 190, lines 8 and 9
Delete: "A **fog signal**" to end of paragraph.

(A23/99)

Page 141 — Paragraph 197, lines 5 and 6
Delete: "A **fog signal**" to end of paragraph.

(A23/99)

Page 149 — Paragraph 247, lines 4 and 5
Delete: "A **fog signal**" to end of sentence.

(A23/99)

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

Page 101 — Paragraph 424, line 1 – after "(0.6 m)"
Insert: and is marked by port hand lighted spar **buoy** J13 *(442.61)*

(N35/99)

Page 101 — Paragraph 429, line 2 – after "(0.6 m)"
Insert: and marked by a **buoy**

(N35/99)

Page 102 — After paragraph 443
Insert: 443.1 **Red Rock**, drying 4 feet (1.2 m), lies 0.3 mile north of the north entrance to Bayleys Cove. Port hand light **buoy** JB5 *(446.1)* is moored 0.15 mile west of the rock.

(N35/99)

Page 117 — INDEX, after "Red Rock, *12*"
Insert: Red Rock (Cape Bonavista), *102*

(N35/99)

ATL 102 — Newfoundland, East and South Coasts, First Edition, 1995 —

Page 67 — Paragraph 40, lines 1 to 3
Delete: "A large ... **Point**."

(N33/99)

Page 83 — Paragraph 186, line 3 – after "Bay."
Insert: **Jones Rock**, 4 feet (1.2 m) in elevation, is located on the north shore of the SW arm of Mortier Bay 0.9 mile WNW of Seal Rock. Starboard hand lighted spar **buoy** PM6 *(63.52)* is moored close SE of the rock. Port hand lighted spar **buoy** PM9 *(63.51)* is moored 0.57 mile SW of Jones Rock.

(N33/99)

Page 106 — INDEX, after "Jonathan Lookout, *75*"
Insert: Jones Rock, *83*

(N33/99)

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

Page 58 — Paragraph 160, after correction promulgated in Monthly Edition No. 8/99.
Add: **Pigeon Island**, 24 feet (7.3 m) in elevation, lies in the north end of Middle Passage. Port hand lighted spar **buoy** QW3.1 *(158.73)* is moored 0.17 mile NNW of the NW end of Pigeon Island. Port hand lighted spar **buoy** QW5 *(159.15)* is moored about 0.2 mile SW of White Head.

(N34/99)

Page 59 — Paragraph 163, last line
Add: Starboard hand lighted spar **buoy** QM2.2 *(159.1)* is moored close south of **Black Rock**, an islet 6 feet (1.8 m) in elevation 0.23 mile SSE of Margaree Point.

(N34/99)

Page 69 — INDEX, after "Black Rock (Long Harbour), *19*"
Insert: Black Rock (Margaree), *59*

(N34/99)

Page 71 — INDEX, after "Piercy Hill, *4*"
Insert: Pigeon Island (Isle aux Morts), *58*

(N34/99)

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

Page 67 — After paragraph 170
Insert: 170.1 An information light buoy, moored 4.3 miles NNW of the church at Sainte-Luce, marked the site of the historic wreck of *Empress of Ireland*. Three mooring buoys (private and seasonal) are also moored at this site.

(L60/99)

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
NEWFOUNDLAND									
63.51	*Rolf Rock light buoy PM9*	*47 09 59* *55 08 33*	*Fl*	*G*	*4s*	.....	.....	*Green spar, marked "PM9"*	*Year round.* **Chart:4587 2318/99**
63.52	*Jones Rock light buoy PM6*	*47 10 28* *55 08 08*	*Fl*	*R*	*4s*	.....	.....	*Red spar, marked "PM6"*	*Year round.* **Chart:4587 2318/99**
158.73	*Isle aux morts light buoy QW3.1*	*47 34 33* *59 00 47.5*	*Fl*	*G*	*4s*	.....	.....	*Green spar, marked "QW3.1"*	*Year round.* **Chart:4640 2306/99**
159.1	*Black Rock Shoal light buoy QM2.2*	*47 33 57* *59 03 59.5*	*Fl*	*R*	*4s*	.....	.....	*Red spar, marked "QM2.2"*	*Year round.* **Chart:4640 2306/99**
159.15	*Beach Island S.E. Shoal light buoy QW5*	*47 33 57* *59 02 49.5*	*Fl*	*G*	*4s*	.....	.....	*Green spar, marked "QW5"*	*Year round.* **Chart:4640 2306/99**
442.61	*Western Rock light buoy J13*	*48 34 43.1* *53 30 02.5*	*Fl*	*G*	*4s*	.....	.....	*Green, marked "J13".*	*Seasonal.* **Chart:4854 2361/99**
446.1	*Red Rock Shoal light buoy JB5*	*48 40 13.2* *53 07 27*	*Fl*	*G*	*4s*	.....	.....	*Green, marked "JB5".*	*Seasonal.* **Chart:4854 2361/99**
ATLANTIC									
19.3	*Grand Harbour Middle light buoy XK11*	*44 39 27.5* *66 45 13*	*Fl*	*G*	*4s*	.....	.....	*Green, marked "XK11"*	*Year round.* **Chart:4342 2303/99**
23 H4172	Half Tide Rock (Cheney Passage)	On rock, in middle of passage. 44 39 19.1 66 43 44.4	Fl	G	5s	3.4	5	Skeleton structure, two black, white and green square daymarks on both sides facing traffic. 2.9	Flash 1 s; eclipse 4 s Year round. **Horn -** Blast 1s; sil. 14s. **Chart:4342 Edn. 12/99**
294 H3804	**Tusket River**	Big Fish Island, SW. point. 43 42 12.5 65 57 08	Fl	W	10s	18.6	**15**	White square tower.	Flash 1 s; eclipse 9 s. Year round. **Chart:4244 2320/99**
722 H3376	**Green Island**	Summit of island. 45 28 41 60 54 00	Fl(2)	W	20s	34.1	**16**	White cylindrical tower. 11.5	Flash 2 s; eclipse 2 s; flash 2 s; eclipse 14 s. Emergency light. Year round. **Chart:4308 Edn. 12/99**

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

ATLANTIC - (cont'd)

918 H1272	**Caribou**	On Caribou Point, NE. end of Gull Island. 45 45 52.4 62 40 53	Fl(3)	W	24s	13.4	**18**	White square tower.	Flash 1 s; eclipse 3 s; flash 1 s; eclipse 3 s; flash 1 s; eclipse 15 s Emergency light. Year round. **Chart:4483** **2331/99**
943 H920	**East Point**	Near S. shore of point. 46 27 07 61 58 20	Fl	W	5s	30.5	**20**	White octagonal tower. 19.5	Flash every 5 s Connected by telephone with the Souris Telephone Exchange. Emergency light. Year round. **Chart:4403** **2357/99**
947 H922	**Souris East**	On Knight Point, SE. of breakwater. 46 20 45 62 14 53.2	Iso	W	4s	27.2	**15**	White square tower. 14.3	Flash 2 s; eclipse 2 s Emergency light. Year round. **Chart:4419** **2357/99**
953 H932	**Panmure Head**	SE. extremity of Cardigan Bay. 46 08 39 62 28 02	Fl	W	4s	25.0	**17**	White octagonal tower. 18.6	Emergency light. Year round. **Chart:4422** **2357/99**
973 H964	Wood Islands Harbour range	On outer end of eastern training pier. 45 56 54.3 62 45 07	F	Y		7.4	6	White square structure, red vertical stripe. 5.7	Visible in line of range. Seasonal.
974 H964.1		002°19' 162m from front.	F	Y		11.4	7	White square tower, red vertical stripe. 9.7	Seasonal. **Chart:4483** **2331/99**
1025	Fishing Cove	On outer end of breakwater. 46 24 26 64 08 06	Fl	R	3s	4.9	.....	Red skeleton tower. 3.7	Flash 1 s; eclipse 2 s Seasonal. **Chart:4905** **2325/99**
1028	West Point range	Outer end of breakwater. 46 37 05.4 64 22 19.7	F	Y		6.2	.....	Square skeleton tower, white daymark, red vertical stripe. 4.8	Seasonal.
1028.1		007°04' 268.6m from front.	F	Y		13.7	.....	Square skeleton tower, white daymark, red vertical stripe. 9.4	Seasonal. **Chart:4905** **2325/99**
1056 H1141	North Rustico Harbour	46 27 18.9 63 17 33.9	Iso	Y	10s	12.4	.....	White tower. 10.4	Emergency light. Year round. **Chart:4467** **2330/99**
1076 H1086	Cascumpeque	On sandhills, S. side of entrance. 46 47 56.2 64 02 12.2	Iso	W	4s	18.3	7	Red square skeleton tower, enclosed centre portion, red and white horizontal bands. 17.8	Flash 2 s; eclipse 2 s. Emergency light. Year round. **Chart:4492** **2328/99**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
ATLANTIC - (cont'd)									
1128 H1376	**Richibucto Head**	On headland. 46 40 11.3 64 42 42	Fl	W	5s	18.1	**15**	White square tower. 10.5	Flash 0.5 s; eclipse 4.5 s Emergency light. Year round. **Chart:4909** **2329/99**
2330 H2482	Île Deslauriers range	E. side of island. 45 42 44.8 73 26 22.8	F	G	2s	13.0	.....	Skeleton tower. 6.1	Operates at night. Visible in line of range. Year round.
2331 H2482.1		217°31' 2653.3m from front.	F Iso	G G		31.0	 14	Skeleton tower. 25.4	Operates at night only. Visible in line of range. Year round. **Chart:1310** **2302(P)/99**
2335 H2484	Île Ste-Thérèse Lower range	E. side of island. 45 41 06.8 73 27 32.7	F	G		10.0	.....	White cylindrical tower, fluorescent orange slatwork daymark, black vertical stripe. 4.6	Operates at night only. Visible from the side. Visible in line of range. Year round.
2336 H2484.1		213°07' 152.7m from front.	F	G		15.7	.....	White cylindrical tower, fluorescent orange slatwork daymark, black vertical stripe. 10.1	Operates at night only. Visible in line of range. Year round. **Chart:1310** **2302(P)/99**
2344 H2487	**Varennes (Île aux Vaches Traverse) range**	S. shore. 45 41 12.8 73 26 32.9	F F	G G		11.9	**15** 6	White cylindrical tower, fluorescent orange daymark. 8.9	Emergency light. Visible in line of range. Year round. Visible 360°.
2345 H2487.1		032°35' 325.8m from front.	F F	G G		23.0	**15** 6	Skeleton tower, fluorescent orange daymark. 17.3	Emergency light. Visible in line of range. Year round. Visible 360°. **Chart:1310** **2302(P)/99**
INLAND WATERS									
847 848	Fisherman Point range								Delete from List. **Chart:2271** **2354/99**
877	Penetang North wharf								Delete from List. **Chart:2218** **2342/99**
1024 1025	Gore Bay range								Delete from List. **Chart:2257** **2351/99**

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,
Ottawa, Ontario, K1A 0E6

In the case of information Canadian Coast Guard, 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.