



Fisheries and Oceans Pêches et Océans  
Canada Canada

VOL 23 MONTHLY EDITION NO 1  
JANUARY 30, 1998

# WESTERN EDITION OF NOTICES TO MARINERS

Published monthly by the

CANADIAN COAST GUARD

NOTICES

**100 to 159**

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**Canada**

Marine Navigation Services  
Directorate  
Marine Aids

**RECYCLED PAPER**

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

## 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 *iii* of each monthly edition. Notification of changes to the mailing addresses, regional issues and/or number of copies required should also be transmitted by means of this form.

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

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

#### **DGPS INITIAL OPERATIONAL SERVICE**

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

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

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

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

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

NFLD			53 04 W		
Cape Ray NFLD	340,341	942	47 34 N 59 09 W	290	200

## **DGPS USER ALERT**

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

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

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

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

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

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

Throughout the service validation period, the Coast Guard will be conducting numerous tests of the differential service. To assist the Coast Guard in this validation testing, mariners are requested to complete the attached anomaly report. Please take note of any DGPS service anomalies you experience and forward the completed form to the Director Marine Aids, 344 Slater Street, 6th floor, Ottawa, Ontario, K1A 0E6.

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

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

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

### User informations / Renseignements sur l'usager

Vessel name / Nom du navire: \_\_\_\_\_ Destination: \_\_\_\_\_

Vessel position at the beginning of the anomaly /

Position du navire au début de l'anomalie : \_\_\_\_\_

Vessel position at the end of the anomaly /

Position du navire à la fin de l'anomalie : \_\_\_\_\_

### Anomaly report / Rapport d'anomalie

Date and time of the anomaly / Date et heure de l'anomalie: \_\_\_\_\_ Duration / Durée: \_\_\_\_\_

Number of satellites tracked on GPS receiver / Nombre de satellites reçu par le récepteur: \_\_\_\_\_

DGPS site using / Station DGPS utilisée: Freq.: \_\_\_\_\_ kHz SS: \_\_\_\_\_ dB SNR: \_\_\_\_\_ dB

DOP Geometry / Géométrie DOP : \_\_\_\_\_

User receiver operates correctly with other DGPS sites? /

Votre équipement DGPS fonctionne-t-il normalement à l'utilisation d'autres stations DGPS?: Yes/ Oui  
\_\_\_\_\_  
No / Non \_\_\_\_\_

Comments / Commentaires:

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

Phone / Téléphone : \_\_\_\_\_

### Weather conditions / Conditions météo

Winds / Vents : Direction: \_\_\_\_\_ Speed / Vitesse: \_\_\_\_\_ KTS

Temp. °C: \_\_\_\_\_ VIS: \_\_\_\_\_ N.M.

Sea State / État de la mer : \_\_\_\_\_

Bearing and range to electrical storm /

Direction et distance de l'orage : \_\_\_\_\_

Time of the storm / Heure de l'orage: \_\_\_\_\_ UTC

Essential 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 : 613-998-2428 attention AWAD.
- 2) Mail / Par la poste: Director Marine Aids  
344 Slater Street, 6 th floor  
Ottawa, Ontario  
K1A 0E6

## Canada

Legend/ Légende
--------------------

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

## **IMPORTANT NOTICE TO USER**

### **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.

**NOTE: This Notice supersedes previous Notice to User concerning the Canadian Coast Guard Marine Aids Modernization Program.**

## CENTRAL & ARCTIC REGION

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

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

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

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

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

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

**MONTHLY EDITION OF NOTICES TO MARINERS**

**MAILING LIST CHANGES**

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

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

Please indicate which edition you would like to receive.

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

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

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**\*158 CANADIAN HYDROGRAPHIC SERVICE - Chart.**

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
1. New Edition.					
3548	<u>British Columbia/Colombie-Britannique</u> Queen Charlotte Strait - Central Portion/Partie Centrale	-----	Sept. 26/97	N/A	

(AMA8035-10-35) (DFO-H98-017)

**\*129 TRANSPORT CANADA PUBLICATIONS - Ship Safety Bulletins - 1997.**

The following bulletins have been issued in 1997:

- |                        |  |
|------------------------|--|
| No. 1 January 6, 1997  | International Maritime Dangerous Goods Code  |
| No. 2 March 7, 1997    | Replacement batteries for Alden Satfind-406™ EPIRBs Model M1, M2 (Canadian), M3, M4 (USA)              |
| No. 3 April 16, 1997   | Fire caused by heat radiation from cargo hold light  |
| No. 4 May 6, 1997      | Manning requirements when entering eastern waters  |
| No. 5 May 29, 1997     | The Arctic Ice Regime Shipping System (AIRSS)  |
| No. 6 June 5, 1997     | Cargo Matters - Fumigation   |
| No. 7 June 13, 1997    | Textile components of lifejackets and personal flotation devices                                       |
| No. 8 July 4, 1997     | Electrical Shock Hazard - Shore Power  |
| No. 9 July 28, 1997    | Computer and the Year 2000   |
| No. 10 August 22, 1997 | Fire in the self-unloading bulk carrier "AMBASSADOR" TSB Report No. M94M0057 (Recommendation - M96-08) |
| No. 11 Oct 14, 1997    | Standard type lifejacket lifting loop  |
| No. 12 Dec 11, 1997    | 1997 Special Edition - Ship Safety Bulletins - Alphabetical Keyword Listing                            |

Single copies of these bulletins may be obtained by writing to:

Transport Canada  
Marine Safety  
AMSK, Patricia Doris, Tel. 998-0594  
Fax # (613) 991-5670  
Place de Ville Tower "C"  
330 Sparks Street, 10<sup>th</sup> floor  
Ottawa, Ontario  
K1A 0N8

(AMA8035-10-1)

(CCG-H98-001)

**\*135 CANADIAN HYDROGRAPHIC SERVICE -Information about CHS chart dealers.**

**1 - NEWLY APPOINTED CHART DEALERS**

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Halltech Environmental Inc.  
503 Imperial Road North, Unit #2  
Guelph, Ontario  
N1H 6T9  
Tel: (519) 766-4568  
Fax: (519) 766-0729  
Email: [halltech@sentex.net](mailto:halltech@sentex.net)  
Web: [www.sentex.net/~halltech](http://www.sentex.net/~halltech)

Marina Port-Lewis 1996  
264, chemin de Planches  
Saint-Anicet, Québec  
J0S 1M0  
Tel: (514) 264-4030, 264-6176  
Fax: (514) 264-4643

**2 - DEALER ADDRESS CHANGE**

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**OLD ADDRESS**

Big Rideau Lake Association  
P.O. Box 93  
Portland, Ontario  
K0G 1V0  
Tel: (613) 272-3629

**NEW ADDRESS**

Big Rideau Lake Association  
30 Colborne Street  
P.O. Box 93  
Portland, Ontario  
K0G 1V0  
Tel: (613) 272-3629

Cranberry Resort Marina  
 P.O. Box 4099  
 Collingwood, Ontario  
 L9Y 4T9  
 Tel: (705) 444-1251  
 Fax: (705) 446-0270

Cranberry Marina  
 1 Harbour Street  
 Collingwood, Ontario  
 L9Y 4T9  
 Tel: (705) 444-1251  
 Fax: (705) 446-0270

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**2 - DEALER ADDRESS CHANGE (CONT'D)**

**OLD ADDRESS**

**NEW ADDRESS**

Donevan's Hardware Ltd.  
 135 King Street East  
 P.O. Box 668  
 Gananoque, Ontario  
 K7G 2V2  
 Tel: (613) 382-2197

Donevan's Hardware Ltd.  
 135 King Street East  
 P.O. Box 668  
 Gananoque, Ontario  
 K7G 2V2  
 Tel: (613) 382-2197  
 Fax: (613) 382-1351

Eastport Marine Ltd.  
 144 Montague Street  
 P.O. Box 789  
 Lunenburg, Nova Scotia  
 B0J 2C0  
 Tel: (902) 634-4004  
 Fax: (902) 634-9199

Atlantic Electronics Ltd.  
 144 Montague Street  
 P.O. Box 789  
 Lunenburg, Nova Scotia  
 B0J 2C0  
 Tel: (902) 634-4004  
 Fax: (902) 634-9199

Gallivan's Book Store  
 136 Castle Street  
 Newcastle, New Brunswick  
 E1V 2L7  
 Tel: (506) 622-4588

Gallivan's Book Store  
 136 Newcastle Blvd.  
 Miramichi, New Brunswick  
 E1V 2L7  
 Tel: (506) 622-4588

The Hinckley Co.  
 Shore Road, P.O. Box 699  
 Southwest Harbor, ME 04679  
 U.S.A.  
 Tel: (207) 244-5531  
 Fax: (207) 244-9833

The Hinckley Co.  
 Shore Road, P.O. Box 699  
 Southwest Harbor, ME 04679  
 U.S.A.  
 Tel: (207) 244-7100  
 Fax: (207) 244-9322

Mapworld Services Inc.  
 209 - 6 Avenue SW  
 Calgary, Alberta  
 T2P 0R2  
 Tel: (403) 294-0393  
 Fax: (403) 262-1460

Mapworld Services Inc.  
 213 - 6 Avenue SW  
 Calgary, Alberta  
 T2P 0R2  
 Tel: (403) 294-0393  
 Fax: (403) 262-1460

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**2 - DEALER ADDRESS CHANGE (CONT'D)**

**OLD ADDRESS**

Nova Scotia Geomatics Centre  
 Dept. of Housing & Municipal Affairs  
 16 Station Street  
 Amherst, Nova Scotia  
 B4H 3E3  
 Tel: (902) 667-7231  
 Fax: (902) 667-6008

N.B.G.I.C.  
 15 King Square North, 2nd Floor  
 P.O. Box 5001  
 Saint John, New Brunswick  
 E2L 4Y9  
 Tel: (506) 658-2419  
 Fax: (506) 658-2156

The Opinicon Ltd.  
 R.R. #1, Elgin  
 Chaffey's Locks, Ontario  
 K0G 1C0  
 Tel: (613) 359-5233  
 Fax: (613) 359-6527

**NEW ADDRESS**

Nova Scotia Geomatics Centre  
 Dept. of Housing & Municipal Affairs  
 160 Willow Street  
 Amherst, Nova Scotia  
 B4H 3W5  
 Tel: (902) 667-7231  
 1-800-798-0706 (NS & PEI)  
 Fax: (902) 667-6008

N.B.G.I.C.  
 15 King Square North, 2nd Floor  
 P.O. Box 5001  
 Saint John, New Brunswick  
 E2L 4Y9  
 Tel: (506) 643-6200  
 Fax: (506) 658-2156

The Opinicon Ltd.  
 Chaffey's Locks  
 R.R. #1  
 Elgin, Ontario  
 K0G 1E0  
 Tel: (613) 359-5233  
 Fax: (613) 359-6527

Okeechobee Lodge and Marine Resort Ltd.  
 P.O. Box 685  
 Little Current, Ontario  
 P0P 1K0  
 Tel: (705) 285-5019  
 Fax: (705) 285-5024

Okeechobee Lodge  
 941 Dominion Avenue  
 Midland, Ontario  
 L4R 4W2  
 Tel: (705) 527-1782  
 Fax: (705) 285-5024

Outdoor Spectacular  
 130 Davis Drive, Unit 11  
 Newmarket, Ontario  
 L3Y 2N1  
 Tel: (905) 836-9252  
 Fax: (905) 836-0889

Outdoor Spectacular  
 180 Davis Drive  
 Newmarket, Ontario  
 L3Y 2N4  
 Tel: (905) 898-4067  
 Fax: (905) 898-6763

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**2 - DEALER ADDRESS CHANGE (CONT'D)**

**OLD ADDRESS**

Paragon Marina Inc.  
 Baxter Road West  
 P.O. Box 98  
 Honey Harbour, Ontario  
 P0E 1E0  
 Tel: (705) 756-2402  
 Fax: (705) 756-3898

Podium Sports  
 Sport Gaston Gauthier Inc.  
 1375, boul. Wallberg  
 Dolbeau, Québec  
 G8L 1H3  
 Tél: (418) 276-4923  
 Fax: (418) 276-8829

Port Whitby Marine Supplies  
 1636 Charles Street, Unit 3  
 Whitby, Ontario  
 L1N 1B9  
 Tel: (905) 668-4077  
 Fax: (905) 668-0412

**NEW ADDRESS**

Paragon Marina Inc.  
 Picnic Island Road  
 P.O. Box 98  
 Honey Harbour, Ontario  
 P0E 1E0  
 Tel: (705) 756-2402  
 Fax: (705) 756-3898

Podium Sports  
 Sport Gaston Gauthier Inc.  
 1375, boul. Wallberg  
 Dolbeau, Québec  
 G8L 1H3  
 Tél: (418) 276-3010  
 Fax: (418) 276-8829

Port Whitby Marine Supplies  
 1636 Charles Street, Unit 2  
 Whitby, Ontario  
 L1N 1B9  
 Tel: (905) 668-4077  
 Fax: (905) 668-0412

The Sportsman's Inn  
 3 Commissioner Street  
 Killarney, Ontario  
 P0M 2A0  
 Tel: (705) 287-2242  
 Fax: (705) 287-2691

The Sportsman's Inn  
 37 Channel Street  
 Killarney, Ontario  
 P0M 2A0  
 Tel: (705) 287-2411  
 Fax: (705) 287-2691

Podium Sports  
 Sport Gaston Gauthier Inc.  
 1375, boul. Wallberg  
 Dolbeau, Québec  
 G8L 1H3  
 Tel: (418) 276-4923  
 Fax: (418) 276-8829

Podium Sports  
 Sport Gaston Gauthier Inc.  
 1375, boul. Wallberg  
 Dolbeau, Québec  
 G8L 1H3  
 Tel: (418) 276-3010  
 Fax: (418) 276-8829

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#### 2 - DEALER ADDRESS CHANGE (CONT'D)

##### OLD ADDRESS

W.H. Dalley  
 305 Main Street  
 P.O. Box 7  
 Springdale, Newfoundland  
 A0J 1T0  
 Tel: (709) 673-3614  
 Fax: (709) 673-4744

Wasaga Marine Limited  
 Site 316, Box 9, R.R. #3  
 1227 Mosley Street  
 Wasaga Beach, Ontario  
 L0L 2P0  
 Tel: (705) 429-2100  
 Fax: (705) 429-3523

Washburn Boat Shop  
 116 Ben Street  
 Newcastle, New Brunswick  
 E1V 1C6  
 Tel: (506) 622-4273

##### NEW ADDRESS

W.H. Dalley  
 327 Main Street  
 P.O. Box 7  
 Springdale, Newfoundland  
 A0J 1T0  
 Tel: (709) 673-3614  
 Fax: (709) 673-4744

Wasaga Marine (1996) Limited  
 1237 Mosley Street  
 Wasaga Beach, Ontario  
 L0L 2P0  
 Tel: (705) 429-2100  
 Fax: (705) 429-3523

Washburn Boat Shop  
 137 Oak Point Road  
 Oak Point, New Brunswick  
 E1V 7K5  
 Tel: (506) 622-4273

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#### 3 - THE FOLLOWING ARE NO LONGER AUTHORIZED CHS CHART DEALER

A.J. Services Marins Inc.  
 Port de Plaisance de Longueuil  
 101, chemin de la River  
 Longueuil, Québec  
 J4H 3Z2  
 Tel: (514) 674-9035  
 Fax: (514) 674-9499

Blunt's Barge  
 P.O. Box 2288  
 1241 Sandy Lane  
 Sarnia, Ontario  
 N7T 7L7  
 Tel: (519) 344-0772  
 Fax: (519) 344-0772

The Bosun's Locker  
 53 Yonge Street  
 Portsmouth Olympic Harbour  
 Kingston, Ontario  
 K7M 6G4  
 Tel: (613) 542-0632

Compass Rose  
 c/o Power Plus Marine  
 314 Lakeshore Road East  
 Mississauga, Ontario  
 L5G 1H4  
 Tel: (905) 274-0113

**3 - THE FOLLOWING ARE NO LONGER AUTHORIZED CHS CHART DEALER - (CONT'D)**

Port of Churchill  
 Canada Ports Corporation  
 P.O. Box 700  
 Churchill, Manitoba  
 R0B 0E0  
 Tel: (204) 675-8823  
 Fax: (204) 675-2550

Pathfinder II  
 254 Highway 17 East  
 Sturgeon Falls, Ontario  
 P0H 2G0

United Marine Supply  
 Box 1373, Hwy 21 North  
 Port Elgin, Ontario  
 N0H 2C0  
 Tel: (519) 389-4232  
 Fax: (519) 389-4364

Captain's Marine Supply  
 3015 Detroit Avenue  
 Cleveland, OH 44113  
 U.S.A.  
 Tel: (216) 621-1026  
 Fax: (216) 621-1722

(AMA8035-10-35)

(DFO-H97-084)

\* 125

**LIST OF CHARTS AFFECTED BY (T) AND (P) NOTICES  
 IN EFFECT DECEMBER 26, 1997  
 (Revised and promulgated quarterly)**

**(Reference: Notice 557/97 cancelled)**

**CHARTS****(T) and (P) NOTICES**

L/C 3000	684(T)/93, 279(T)/94, 301(T)/94, 303(T)/94
L/C 3001	684(T)/93, 301(T)/94, 303(T)/94
3053	702(P)/92
3312	784(P)/92
3313	967(T)/85, 572(T)/92
3419	651(T)/93
3441	967(T)/85, 575(T)/92
L/C 3462	967(T)/85
3490	454(T)/93
3540	784(P)/92
L/C 3602	684(T)/93
L/C 3604	301(T)/94, 303(T)/94
3623	301(T)/94, 96(P)/97
3662	814(P)/96, 516(P)/97
3663	814(P)/96
3680	301(T)/94
3682	814(P)/96, 96(P)/97
3711	694(P)/97
3728	693(P)/97
3787	695(P)/97
LC 3802	733(T)/95
3958	669(T)/93
3964	669(T)/93
6311	738(P)/96, 751(P)/96
7083	847(P)/89
7371	634(P)/96
7740	847(P)/89

(AMA8035-10-1)

(CCG-)

**\* 126****SUMMARY OF TEMPORARY AND PRELIMINARY  
NOTICES IN EFFECT DECEMBER 26, 1997**

(Revised and promulgated quarterly)

Reference: Notice 556/97 cancelled.

NOTICE	CHART	LOCALITY AND SUBJECT
<b>(1) MISCELLANEOUS</b>		
342(P)/97	---	Canada - Loran-C lattices on nautical charts.
633(T)/97	----	Canada - Safety of offshore exploration and exploitation vessels.
<b>(2) CANADIAN ARCTIC AND WEST COAST OF GREENLAND</b>		
847(P)/89	7740,7083	Northwest Territories - Larsen Sound - Boothia Peninsula - Results of surveys.

634(P)/96	7371	Northwest Territories - Ellesmere Island - Alexandra Fiord - Off Skraeling Island -Result of survey.
658(P)/96 discontinued.	-----	Northwest Territories - Hay River - Lights and light buoys to be discontinued.
666(P)/96 discontinued.	-----	Western Arctic - Great Slave Lake - Curtis Island - Light to be discontinued.
738(P)/96	6311	Northwest Territories - Lake Athabasca - Range lights to be discontinued.
751(P)/96	6311	Northwest Territories - Lake Athabasca - Range lights to be discontinued.
222(P)/97	-----	Northwest Territories - Simpson Strait - Spar buoys to be discontinued.
223(P)/97	-----	Northwest Territories - McClintock Bay - Spar buoys to be discontinued.
233(P)/97	-----	Northwest Territories - Spence Bay - Spar buoys to be discontinued.

**(3) BRITISH COLUMBIA INCLUDING VANCOUVER ISLAND, QUEEN CHARLOTTE ISLANDS, FRASER RIVER, U.S. WEST COAST SOUTH TO 48°N., AND PUGET SOUND**

967(T)/85	3441, L/C 3462, 3313	Vancouver Island - Saanich Inlet - Off Coal Point and Squally Reach - Moorings established temporarily.
516(P)/92	-----	British Columbia - Strait of Georgia - Lund - Daymark to be discontinued.
575(T)/92	3313, 3441	Vancouver Island - Saanich Inlet - Patricia Bay - Sub-surface acoustic target established.
702(P)/92 established.	3053	British Columbia - Shuswap Lake - Salmon Arm - Range lights established.
784(P)/92	3540, 3312	Vancouver Island - Discovery Passage - Campbell River - Information about fuel barge.
454(T)/93	3490	British Columbia - Fraser River - Sturgeon Bank - Cautionary light buoy established temporarily.
651(T)/93	3419	Juan de Fuca Strait - Esquimalt Harbour - Off Yew Point - ODAS/SADO buoy established temporarily.
669(T)/93 temporarily.	3958, 3964	British Columbia - Prince Rupert Harbour - Current meters established.
684(T)/93	L/C 3602, L/C 3001, L/C 3000	Off Vancouver Island - Subsurface mooring established temporarily.
279(T)/94	L/C 3000	Off Vancouver Island - Subsurface moorings established temporarily.
301(T)/94 temporarily.	3680, 3623, L/C 3604, L/C 3001, L/C 3000	Off Vancouver Island - Scientific subsurface mooring established.

303(T)/94 temporarily.	L/C 3604, L/C 3001, L/C 3000	Off Vancouver Island - Scientific subsurface mooring established
733(T)/95 relocated.	LC 3802	British Columbia - Dixon Entrance - Rose Spit - Racon temporarily
715(P)/96	----	Pacific Ocean - Strait of Juan de Fuca - Fog signal, daybeacon and light to be discontinued.
814(P)/96 depths.	3682, 3663, 3662	Vancouver Island, West Coast - Approaches to Esperanza Inlet - Shoal
96(P)/97 - Shoal	3682, 3623	Vancouver Island, West Coast - Kyuquot Sound - Entrance to Fair Harbour reported.
327(P)/97	----	British Columbia - Changes to the buoyage system - 1997.
474(P)/97	----	British Columbia - Fraser River - Changes to the buoyage system- 1997.
516(P)/97 depth.	3662	Vancouver Island, West Coast - Approaches to Esperanza Inlet - Shoal
693(P)/97	3728	British Columbia - Milbanke Sound - Bardswell Group - Results of survey.
694(P)/97 Results of	3711	British Columbia - Milbanke Sound - Bardswell Group - Wurtele Island - survey.
695(P)/97	3787	British Columbia - Milbanke Sound - Bardswell Group - Results of survey.

(AMA8035-10-1)

(CCG-H98-003)

**\*141 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 12 of 1997 (**The asterisk indicates changes since Monthly edition 1,1997**). Please refer to the Monthly Notices to Mariners for detail.

Chart	Edition	Reprint	Number	Cat	Date	Date
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	Chart Number	Cat	Edition Date	Reprint Date
*	1	NE	05-JAN-96	
	1202	NE	13-NOV-81	20-MAY-94
	1203	NE	04-JAN-85	10-FEB-95
	1209	NE	14-DEC-84	02-AUG-96
*	1220	NE	28-FEB-97	
L/C	1221	NE	27-DEC-91	
	1223	NE	12-MAR-93	
	1226	NC	27-MAY-83	03-MAY-91
	1229	NE	31-DEC-76	15-DEC-95
	1230	NE	29-FEB-80	10-FEB-89
	1233	NE	18-MAY-84	03-JAN-97
L/C	1234	NE	02-JUL-93	20-OCT-95
* L/C	1235	NE	25-APR-97	
* L/C	1236	NE	01-MAR-96	
	1260	NC	04-JAN-91	
	1310	NC	11-MAR-94	03-MAY-96
*	1312	NC	05-APR-96	
*	1313	NE	27-JUN-97	
	1314	NC	18-OCT-85	01-MAR-96
*	1315	NE	05-JUL-96	
*	1316	NE	07-FEB-97	
*	1317	NE	07-JUN-96	
*	1338	NE	05-APR-96	
	1339	NE	19-AUG-83	03-JAN-97
	1350	NC	06-JUL-84	25-MAR-94
	1351	NC	21-SEP-84	11-AUG-95
	1361	NC	28-MAY-76	01-MAR-96
	1400	NE	26-AUG-88	
*	1409	NE	27-JUN-97	
*	1410	NE	04-OCT-96	

Chart Number	Cat	Edition Date	Reprint Date	Chart Number	Cat	Edition Date	Reprint Date
*	1411	NE	02-AUG-96	2085	NE	22-JUN-90	08-APR-94
	1412	NE	13-JAN-84	2086	NC	09-JUN-89	03-APR-92
	1413	NE	21-AUG-87	05-JUL-96	L/C	2100	15-MAY-87
	1414	NE	01-JUN-84	05-JUL-96	L/C	2110	02-APR-93
*	1414	NE	24-FEB-95	L/C	2120	15-MAY-87	25-DEC-92
*	1434	NC	01-MAR-96	L/C	2121	NE	27-MAR-87
*	1435	NC	15-DEC-95	L/C	2122	18-DEC-87	06-MAR-92
	1436	NC	15-JAN-93	03-JAN-97	L/C	2123	05-JUL-91
	1437	NC	19-MAR-93	30-MAY-97	L/C	2140	05-APR-96
	1438	NE	06-OCT-95	2140	NC	12-MAR-93	
	1439	NE	07-FEB-91	16-SEP-88	2165	NC	08-MAR-91
	1509	NC	22-FEB-91	08-MAR-91	2181	NE	08-MAR-91
	1510	NC	18-MAY-90	27-JUN-97	L/C	2200	10-NOV-89
	1511	NE	28-JUL-95	01-MAY-87	L/C	2201	01-MAY-87
	1512	NE	03-APR-81	23-APR-93	L/C	2202	21-SEP-84
	1512	NE	03-AUG-84	09-OCT-92	2202	NE	25-FEB-94
*	1513	NE	07-JUN-96	04-APR-86	2203	NE	04-APR-86
*	1550	NE	05-JAN-96	17-APR-92	2204	NE	10-APR-92
	1551	NE	27-JUN-86	2204	NE	06-MAY-83	
	1552	NC	27-JUN-86	12-MAR-93	2205	NE	12-FEB-93
	1552	NC	14-SEP-79	08-DEC-87	2205	NC	06-MAR-92
	1553	NC	28-MAY-93	* 2206	NC	27-JUN-97	
	1553	NC	15-FEB-80	2206	NC	24-FEB-95	
	1554	NC	21-APR-95	2212	NC	24-FEB-95	
	1554	NE	16-SEP-88	2213	NC	07-OCT-88	
	1555	NC	15-AUG-97	2213	NC	13-NOV-92	
L/C	2000	NC	12-OCT-79	2214	NC	07-OCT-94	
	2006	NE	08-SEP-89	2215	NC	12-AUG-94	
	2007	NE	03-JUL-87	2218	NC	13-APR-84	
	2007	NE	16-FEB-90	2221	NE	09-SEP-94	
	2011	NE	10-SEP-82	2221	NE	07-JUN-96	
	2011	NC	08-JUL-88	2222	NC	13-APR-84	
	2017	NC	13-JUL-90	2223	NC	13-APR-84	
	2018	NC	22-JUN-90	2225	NC	08-MAR-91	
	2021	NC	25-JUN-93	2225	NE	11-JUL-97	
*	2022	NE	02-AUG-96	2226	NE	08-MAR-91	
	2022	NE	25-JUN-93	L/C	2228	NE	22-NOV-91
	2023	NE	02-AUG-96	2228	NC	16-FEB-90	
	2023	NE	01-MAR-85	2235	NE	06-FEB-87	
	2024	NE	24-MAR-95	2235	NE	30-DEC-94	
	2024	NE	29-MAR-85	2239	NE	08-MAR-85	
	2025	NE	16-DEC-94	L/C	2243	NE	01-MAR-96
	2025	NE	01-MAR-85	2243	NE	30-AUG-85	
	2026	NE	28-MAY-93	L/C	2244	NE	08-APR-94
	2026	NE	05-APR-85	2244	NE	24-JUL-87	
	2028	NE	15-DEC-95	L/C	2245	NE	16-JUN-95
	2028	NE	20-MAR-87	2245	NE	06-JUN-86	
	2029	NE	15-FEB-91	L/C	2245	NE	05-APR-96
	2029	NE	20-MAR-87	2250	NC	06-JUN-86	
	2042	NE	08-MAY-92	2250	NC	09-MAY-86	
	2042	NE	07-OCT-94	2251	NC	11-APR-86	
	2043	NC	26-MAR-82	2251	NC	26-JUN-92	
*	2043	NC	29-NOV-68	2257	NC	02-NOV-84	
	2044	NC	07-JUN-84	2257	NE	07-JUN-84	
	2044	NC	28-FEB-97	2258	NE	05-APR-96	
	2047	NC	13-JUN-84	2258	NE	16-JUN-89	
	2048	NC	07-APR-95	2259	NE	15-JUN-62	
	2048	NC	11-OCT-91	2260	NE	02-JUL-93	
	2049	NC	13-JUN-84	2260	NE	13-JUN-86	
	2049	NC	10-MAY-85	2261	NE	05-APR-91	
	2050	NC	10-MAY-85	2266	NC	13-JUN-86	
	2053	NC	10-MAY-85	2266	NC	22-JUN-84	
	2054	NC	10-MAY-85	2267	NC	31-MAR-89	
	2054	NC	10-MAY-85	2268	NE	06-MAY-94	
	2055	NC	10-MAY-85	2273	NC	13-OCT-55	
L/C	2058	NC	05-JUL-91	2273	NE	22-AUG-75	
L/C	2058	NE	16-JUN-89	2274	NE	08-JUN-90	
L/C	2060	NE	01-JUL-94	2282	NE	07-JUN-96	
	2061	NE	28-JUN-85	2282	NE	27-OCT-89	
L/C	2061	NE	13-JAN-89	L/C	2284	NE	07-JUN-96
L/C	2064	NE	18-MAR-77	2284	NE	21-JAN-83	
	2064	NE	10-FEB-89	2286	NE	25-AUG-95	
	2067	NE	05-MAY-95	2286	NE	16-OCT-87	
	2067	NE	01-NOV-85	2289	NE	05-JUN-92	
	2069	NE	15-FEB-91	2289	NE	12-JUL-81	
	2069	NE	04-MAR-83	2291	NE	15-APR-88	
	2070	NE	14-OCT-88	2291	NE	28-APR-89	
	2070	NE	29-APR-83	2292	NE	05-APR-96	
L/C	2077	NE	25-AUG-95	2292	NE	11-JUN-65	
	2077	NE	11-JUN-65	2293	NE	12-DEC-80	

Chart Number	Cat	Edition Date	Reprint Date		Chart Number	Cat	Edition Date	Reprint Date
2294	NE	23-JUN-89	24-JAN-97		3475	NE	27-MAY-88	02-JUL-93
2297	NE	20-JAN-60	13-FEB-81		3476	NC	31-AUG-84	22-APR-94
2298	NE	02-JUL-58	13-FEB-81		3477	NE	03-MAY-85	08-SEP-89
2299	NE	30-SEP-83	30-JUN-95		3478	NE	24-FEB-95	
L/C 2300	NE	05-SEP-80	18-NOV-88		3481	NE	05-DEC-86	17-DEC-93
L/C 2301	NE	22-FEB-91			3488	NC	21-OCT-94	
L/C 2302	NE	02-AUG-85			3489	NC	21-OCT-94	
2303	NE	18-MAY-55	29-JUN-90	*	3490	NE	25-JUL-97	
2304	NE	31-MAY-57	01-FEB-80	*	3491	NE	05-JAN-96	
2305	NE	17-DEC-56	08-FEB-80	*	3492	NC	27-JUN-97	
2306	NE	03-MAY-57	09-MAY-75		3493	NE	01-JUL-94	
2307	NE	31-AUG-56	11-MAR-77		3494	NE	21-FEB-92	
2308	NE	19-JUL-46	21-APR-78		3495	NE	21-FEB-92	
L/C 2309	NE	08-JUL-88			L/C 3512	NC	30-NOV-84	05-MAR-93
2310	NE	03-JUN-46	01-FEB-80		L/C 3513	NC	30-NOV-84	19-FEB-93
2311	NE	08-JAN-58	12-APR-91	*	3514	NE	02-AUG-96	
2312	NE	13-NOV-87	08-APR-94		3515	NC	18-JAN-91	03-JUN-94
2313	NE	21-JUN-57	28-OCT-77		3526	NE	24-FEB-95	
2314	NE	11-JUL-86			3527	NE	01-JAN-88	02-APR-93
2315	NE	22-APR-88			3534	NE	07-MAY-93	
2318	NE	03-DEC-82			3535	NE	16-AUG-85	16-APR-93
2400	NE	29-JUN-90			3536	NC	21-APR-78	16-APR-93
L/C 3000	NE	20-JAN-89	22-APR-94		3537	NC	27-SEP-85	22-JUN-90
L/C 3001	NE	07-OCT-94			3538	NE	27-NOV-92	02-AUG-96
L/C 3002	NE	16-DEC-94			3539	NE	04-AUG-89	25-APR-97
*	3050	NE	03-MAY-96		3540	NE	22-MAY-92	
3052	NE	07-OCT-94			3541	NE	29-JUL-94	
3053	NC	11-APR-86	02-FEB-90		3542	NE	01-JUL-94	
3055	NC	21-JUN-91			3543	NE	27-NOV-92	30-MAY-97
3056	NC	21-JUN-91			3544	NE	25-SEP-87	29-JAN-93
3057	NC	21-JUN-91			3545	NC	28-APR-89	12-AUG-94
3058	NC	21-JUN-91			3546	NC	28-APR-89	10-JUL-92
3061	NC	29-MAY-81	21-JUN-85		3547	NC	28-APR-89	05-APR-96
3062	NC	24-MAY-85			3548	NE	17-SEP-93	
3080	NE	03-APR-92			3549	NC	03-DEC-93	05-APR-96
3311	NE	31-DEC-93			3550	NC	03-DEC-93	
3312	NC	31-JAN-86	05-APR-91		3552	NC	02-JAN-87	02-APR-93
3313	NC	28-JUL-95			3555	NE	27-JUN-86	09-APR-93
3410	NC	24-MAR-95			3559	NC	15-JUN-79	02-FEB-90
3411	NC	24-MAR-95			3564	NC	04-DEC-87	08-SEP-95
3415	NE	13-FEB-87	08-APR-94		3598	NE	14-AUG-87	11-OCT-91
3419	NC	02-JUL-93			3601	NC	26-AUG-94	
3424	NC	24-JUL-87	02-APR-93		L/C 3602	NE	24-MAY-85	12-AUG-94
3440	NE	11-MAR-83	15-OCT-93		L/C 3603	NE	23-OCT-81	01-NOV-91
3441	NE	12-AUG-88	06-DEC-96		L/C 3604	NE	06-NOV-87	13-JUN-97
3442	NE	03-JUN-88	06-DEC-96		L/C 3605	NE	03-JUN-88	
3443	NE	12-AUG-88	04-DEC-92		L/C 3606	NE	27-JUL-84	03-SEP-93
3457	NE	29-DEC-89			3623	NE	26-AUG-77	06-JAN-89
3458	NE	10-MAR-95			3624	NE	19-AUG-88	22-APR-94
*	3459	NE	24-OCT-97		3625	NC	25-OCT-68	10-MAR-89
L/C 3461	NC	06-JAN-84	02-DEC-94		3646	NE	30-JUN-95	
L/C 3462	NC	13-JUL-84	27-AUG-93		3647	NE	05-JUL-85	30-MAR-90
* L/C 3463	NE	03-OCT-97			3651	NE	09-APR-93	
3473	NE	13-FEB-87	04-DEC-92		3662	NE	07-AUG-87	17-DEC-93

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

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L/C 4013	NE	07-NOV-86	03-JUL-92	4306	NE	14-JUN-85	07-JUN-96
L/C 4015	NE	24-JUL-92		4307	NE	15-FEB-85	13-NOV-92
L/C 4016	NE	05-MAY-95		4308	NE	07-SEP-84	27-SEP-91
L/C 4017	NE	16-JUN-95		L/C 4320	NE	08-AUG-86	06-MAY-94
L/C 4020	NE	27-DEC-91		L/C 4321	NE	11-OCT-85	01-FEB-91
L/C 4021	NE	27-DEC-91		4328	NE	03-FEB-84	25-MAY-90
L/C 4022	NE	27-DEC-91	02-AUG-96	4331	NE	19-OCT-84	11-MAY-90
L/C 4023	NE	28-NOV-86	05-JAN-96	4332	NE	29-DEC-61	24-JAN-97
L/C 4024	NE	27-DEC-91		L/C 4335	NE	27-SEP-85	
L/C 4025	NE	27-DEC-91		4337	NE	03-JAN-86	
L/C 4026	NE	27-DEC-91	08-APR-94	L/C 4340	NE	12-APR-91	
L/C 4045	NC	08-AUG-86		4342	NE	03-JUN-88	26-APR-91
L/C 4047	NE	19-MAY-89		L/C 4363	NE	01-NOV-85	13-NOV-92
L/C 4049	NE	19-MAY-95		4365	NE	08-DEC-72	29-FEB-80
L/C 4098	NC	21-SEP-84		L/C 4367	NE	01-NOV-85	06-JUL-90
L/C 4099	NC	21-SEP-84		L/C 4374	NE	27-DEC-85	26-MAR-93
4114	NC	08-MAY-92		L/C 4375	NE	25-OCT-85	01-JAN-93
L/C 4116	NC	09-APR-93		4376	NE	02-OCT-87	11-AUG-95
4117	NC	28-OCT-88		4377	NE	10-JAN-86	
L/C 4118	NC	22-MAY-87	11-MAR-94	4379	NE	31-OCT-86	14-FEB-92
4124	NC	07-AUG-92		4381	NE	17-JAN-86	03-MAY-96
4130	NC	30-MAY-69	17-DEC-76	4384	NE	31-OCT-86	13-AUG-93
4140	NC	07-JAN-72	02-JUL-82	* L/C 4385	NE	07-JUN-96	
*	4141	NE	01-NOV-96	4386	NE	03-OCT-86	24-MAR-95
*	4142	NE	01-NOV-96	4391	NE	21-FEB-92	
4145	NE	22-MAR-91		4394	NE	14-SEP-90	
4170	NC	28-FEB-92		4395	NE	25-MAY-90	
4201	NE	26-JAN-90	10-MAR-95	4396	NE	19-FEB-88	30-JUL-93
4202	NC	14-AUG-87	24-DEC-93	4399	NC	03-APR-42	26-AUG-83
4203	NC	07-AUG-87	04-NOV-94	4402	NE	11-SEP-59	20-MAR-81
4209	NC	21-OCT-94		L/C 4403	NE	21-JUN-85	24-DEC-93
4210	NC	05-APR-91		L/C 4404	NE	26-JUL-85	29-JUN-90
4211	NE	07-DEC-90	02-JUN-95	L/C 4405	NE	12-JUL-85	21-JUL-89
L/C 4227	NC	24-MAY-91		L/C 4406	NE	12-JUL-85	09-JUN-89
L/C 4230	NC	15-JUN-90		4416	NE	07-JAN-83	
L/C 4233	NC	11-JAN-91		4419	NE	12-AUG-88	02-FEB-96
L/C 4234	NC	10-APR-87		4420	NE	03-OCT-69	06-NOV-81
L/C 4235	NC	31-MAR-89		4421	NE	11-OCT-68	23-MAR-79
L/C 4236	NC	30-JAN-87	28-JUL-95	4422	NE	10-OCT-69	17-JUN-94
L/C 4237	NC	30-DEC-88	23-SEP-94	4425	NE	02-MAY-80	17-OCT-97
L/C 4240	NC	06-OCT-89	06-JUN-97	4426	NE	18-MAR-88	
L/C 4241	NC	01-DEC-89	02-AUG-96	4428	NE	06-OCT-78	
L/C 4242	NE	28-AUG-92		4429	NE	04-JUN-93	
L/C 4243	NC	20-JUN-86	25-AUG-89	4430	NE	02-OCT-81	21-MAY-93
4244	NC	21-FEB-86	26-APR-91	4432	NE	14-DEC-84	15-JUN-90
4245	NE	28-NOV-86	25-DEC-92	4437	NE	17-MAY-91	
L/C 4255	NC	27-JUL-90		4440	NE	18-JUL-80	
4266	NC	29-SEP-89		4443	NC	16-JUN-67	18-FEB-77
4275	NE	23-DEC-83	03-MAY-96	4445	NC	17-JUN-49	07-DEC-79
*	4276	NE	25-JUL-97	4446	NC	06-JAN-53	31-DEC-93
4277	NC	29-APR-83	28-SEP-90	4447	NE	09-NOV-84	
4278	NE	14-NOV-86	18-JUN-93	4448	NE	27-APR-90	
4279	NE	13-JUN-86	13-SEP-91	4449	NE	02-JAN-87	
4281	NE	20-FEB-87	14-JUL-95	4450	NE	02-MAR-73	13-NOV-87

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L/C 4451	NE	27-MAR-87	15-JUL-88	4542	NE	09-SEP-66	23-JAN-76
4452	NE	29-JUL-83		4543	NC	10-OCT-57	10-NOV-78
4453	NE	17-DEC-82		4548	NC	10-OCT-57	11-MAR-88
4454	NE	03-FEB-78		L/C 4560	NE	14-MAR-86	25-DEC-92
4455	NE	10-SEP-76	20-OCT-89	4582	NC	14-FEB-64	10-SEP-76
4459	NE	22-JAN-88		4583	NC	16-JAN-61	02-JUL-82
4460	NE	11-SEP-87	03-MAY-91	4584	NC	02-JAN-59	14-NOV-80
L/C 4462	NE	28-JUN-85	06-JUN-97	4585	NC	02-JAN-59	29-AUG-80
L/C 4463	NE	09-AUG-85	15-JUN-90	4587	NE	04-SEP-87	21-AUG-92
L/C 4464	NE	11-OCT-85	15-JUN-90	4591	NC	02-JAN-59	18-AUG-78
4466	NE	17-MAY-91	01-MAR-96	4592	NE	03-JUN-83	02-APR-93
4467	NE	21-MAR-69	01-MAR-96	4593	NC	20-JAN-60	12-JUN-81
4468	NE	12-JUL-85		4594	NC	02-JAN-59	14-FEB-92
4469	NE	08-NOV-85		4595	NC	02-JAN-59	04-FEB-83
4470	NE	04-JAN-80		4596	NC	02-JAN-59	09-JAN-81
4471	NE	11-FEB-77	11-AUG-89	4597	NC	02-JAN-59	09-OCT-81
4472	NE	14-AUG-81		4598	NE	21-JAN-83	
4473	NE	25-NOV-77		4599	NC	02-JAN-59	14-DEC-84
4474	NE	31-DEC-76		4609	NE	20-SEP-63	07-JAN-77
4483	NE	12-AUG-88		4615	NE	22-MAY-87	
* L/C 4485	NE	26-SEP-97		4616	NE	19-APR-91	
L/C 4486	NE	19-OCT-84	24-MAR-95	4617	NE	19-MAY-89	25-APR-97
4491	NC	06-MAY-66	01-FEB-80	4619	NC	29-NOV-63	29-OCT-93
4492	NC	04-FEB-66	25-JUL-80	* L/C 4622	NE	25-APR-97	
4497	NE	30-JUL-71	12-OCT-79	L/C 4624	NE	17-JAN-86	
4498	NE	23-OCT-87	03-NOV-95	L/C 4625	NE	10-JAN-86	22-APR-88
4504	NE	14-FEB-64	23-JAN-76	L/C 4626	NE	08-NOV-85	22-APR-88
4505	NC	14-FEB-64	14-FEB-75	4633	NE	24-APR-87	21-APR-95
4506	NC	28-FEB-64	25-JUN-82	4634	NE	14-JUL-95	
4507	NC	28-FEB-64	30-JAN-76	4635	NE	24-JUN-83	
4509	NC	05-DEC-69	21-JUL-78	4637	NE	14-AUG-87	19-MAY-89
4510	NC	22-MAR-68	15-JUL-94	4638	NC	20-SEP-55	12-DEC-80
4511	NC	10-JUL-64	17-OCT-80	4639	NC	20-SEP-55	12-DEC-80
4512	NC	30-OCT-64	09-FEB-79	4640	NE	10-AUG-84	
4514	NE	23-OCT-81	29-SEP-89	4641	NE	31-AUG-84	
4515	NC	21-MAY-52	02-JAN-81	4642	NC	18-JAN-60	31-MAR-78
				4643	NE	03-MAY-85	15-MAY-92
4516	NE	02-NOV-62	10-DEC-76	4644	NC	01-DEC-67	04-SEP-92
4518	NC	18-OCT-51	26-JAN-79	4652	NE	31-OCT-80	
4519	NC	13-OCT-51	04-FEB-83	4653	NE	12-MAR-76	24-MAR-95
L/C 4520	NE	02-JUN-95		4654	NC	27-OCT-52	22-SEP-78
4521	NE	04-JUN-65	08-SEP-78				
4522	NC	15-JUL-59	04-SEP-81	4658	NC	08-MAY-70	15-FEB-80
4523	NC	27-MAR-64	13-JUN-75	4659	NC	10-OCT-57	08-SEP-78
4524	NE	07-FEB-64	15-AUG-80	4661	NC	20-SEP-55	23-JUN-89
4526	NC	05-OCT-51	24-FEB-95	4663	NC	10-OCT-57	03-SEP-76
4529	NE	30-SEP-88		4665	NC	10-OCT-57	08-MAY-81
4530	NE	11-MAR-83	17-APR-92	4666	NC	10-OCT-57	20-JUN-86
4531	NC	24-MAY-74	14-MAR-97	4667	NE	08-OCT-65	13-AUG-76
4535	NC	12-MAR-65	21-AUG-81	4668	NC	10-OCT-57	23-OCT-87
4536	NC	20-SEP-63	14-FEB-75	4669	NC	10-OCT-57	29-MAR-85
4538	NE	26-MAR-76		4670	NC	10-OCT-57	29-JUL-77
4540	NC	10-OCT-57	26-JAN-79	4679	NE	31-DEC-76	04-JUN-82
4541	NC	10-OCT-57	03-OCT-80	4680	NC	02-JAN-59	27-FEB-76

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4682	NC	19-OCT-62	01-MAY-87	4920	NC	29-SEP-89	
L/C 4700	NE	30-DEC-94		4921	NE	16-APR-93	
4701	NC	27-DEC-63	23-OCT-81	L/C 4951	NC	04-JAN-91	
4702	NC	17-JAN-64	28-SEP-90	L/C 4952	NC	21-AUG-92	
4703	NE	31-JAN-64	26-AUG-94	*	4954	NE	20-JUN-97
4705	NE	30-JAN-56	06-AUG-76	4955	NC	15-FEB-91	
4712	NC	21-FEB-64	01-FEB-74	4956	NC	23-NOV-90	
4722	NE	27-FEB-87		4957	NC	13-JUL-90	
4724	NE	20-MAY-60	08-SEP-78	4980	NC	03-JAN-92	
4725	NC	09-JUN-53	28-AUG-81	L/C 5001	NE	04-NOV-94	
4728	NE	16-JUN-95		5002	NC	25-JUL-75	
L/C 4730	NE	07-OCT-83	23-JUL-93	5003	NE	26-SEP-69	23-JUL-76
L/C 4731	NE	16-DEC-94		L/C 5023	NC	20-APR-90	
4732	NE	27-DEC-68	22-FEB-80	L/C 5030	NC	26-OCT-90	
4744	NC	22-FEB-63	27-NOV-81	5031	NC	04-JAN-91	
4745	NC	17-MAY-63	09-OCT-87	5042	NC	24-FEB-84	
4763	NC	01-FEB-63	26-JUL-85	5043	NC	29-JUN-84	
4764	NC	01-FEB-63	09-NOV-90	5044	NC	10-JUN-83	
4765	NC	29-NOV-63	26-APR-85	5045	NC	01-JUL-83	
4766	NC	06-DEC-63	05-APR-96	5046	NC	13-JAN-84	
4767	NC	06-DEC-63	06-JUL-90	5047	NC	17-AUG-84	
4769	NE	19-SEP-75	03-MAY-85	5048	NC	07-AUG-87	
4771	NE	02-JUL-76	29-JUL-83	5049	NC	08-APR-88	
4773	NC	29-NOV-63	29-DEC-78	*	5051	NC	07-JUN-96
4774	NC	24-JAN-64	19-MAR-82	*	5052	NC	25-APR-97
L/C 4775	NE	09-SEP-83	02-MAY-97	5133	NC	10-OCT-69	14-MAY-82
L/C 4776	NE	08-JUL-83		5134	NC	11-AUG-67	16-MAR-73
L/C 4817	NC	11-APR-86		5135	NC	11-AUG-67	19-FEB-88
4830	NC	14-FEB-86		5138	NE	25-SEP-87	
L/C 4831	NC	26-DEC-86		5140	NC	15-NOV-63	20-OCT-78
L/C 4832	NC	02-OCT-87		5143	NE	02-MAY-86	
4839	NC	27-MAR-92		5179	NC	28-AUG-64	12-JUN-81
L/C 4841	NC	19-MAY-89		5300	NC	25-NOV-66	25-NOV-77
L/C 4842	NE	03-MAR-89		5316	NC	24-AUG-61	25-JAN-80
4843	NC	28-JAN-83		5335	NC	15-MAR-85	
L/C 4844	NC	01-FEB-85	25-MAR-94	5338	NC	06-JUN-86	
* L/C 4845	NE	12-SEP-97		5340	NC	19-APR-63	14-DEC-79
* L/C 4846	NE	15-DEC-95		5348	NE	05-NOV-76	
* L/C 4847	NE	05-JUL-96		5349	NC	05-MAR-58	03-MAR-78
4848	NC	12-JUN-87		5351	NC	24-FEB-56	25-MAR-83
4849	NC	30-DEC-88		5352	NE	08-JUL-60	16-MAY-80
L/C 4850	NC	11-MAY-90		5365	NC	26-SEP-69	25-AUG-89
* L/C 4851	NE	04-APR-97		5373	NC	15-FEB-85	
4852	NC	02-DEC-94		5374	NC	17-JAN-86	
L/C 4853	NC	13-OCT-89		5375	NC	28-FEB-86	
* 4854	NC	25-APR-97		5376	NC	22-MAR-85	
* 4855	NC	06-JUN-97		5390	NC	17-MAY-68	04-NOV-88
4885	NE	12-FEB-88		5391	NC	17-MAY-68	18-FEB-83
L/C 4905	NC	22-JUL-88	24-JUL-92	5396	NC	01-JUN-60	26-SEP-75
L/C 4906	NC	18-MAR-88	11-JUN-93	5397	NC	04-NOV-60	18-NOV-83
4909	NC	17-JUN-88	01-MAR-96	5398	NE	04-SEP-81	
4911	NE	07-MAY-93		5399	NE	04-SEP-81	
4912	NE	04-JUN-93		5400	NE	19-DEC-60	23-APR-82
L/C 4913	NC	07-AUG-92		5403	NE	04-FEB-87	

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5405	NC	26-DEC-51	25-MAR-88	6100	NC	15-MAY-87	10-APR-92
5406	NC	06-MAR-14	15-AUG-80	6101	NC	10-APR-64	
5410	NE	25-MAR-77	19-MAR-93	6105	NE	20-JAN-89	
5411	NE	04-JUN-58	30-JAN-81	6106	NE	21-JUN-91	
5412	NE	23-FEB-68	27-APR-84	6107	NE	10-JUN-83	
5414	NE	06-AUG-37	10-OCT-80	6108	NE	28-JAN-83	05-JUN-92
5427	NC	11-JUN-59	31-OCT-80	6109	NE	30-MAR-90	
5440	NE	01-NOV-74	06-FEB-81	6110	NE	24-FEB-89	15-DEC-95
5449	NE	15-AUG-86		6111	NE	11-MAR-83	
5450	NE	22-MAY-70	29-JUL-77	6112	NC	06-FEB-70	25-MAR-94
5451	NE	05-NOV-65	22-MAR-85	6201	NE	16-MAR-73	22-NOV-91
5452	NC	16-DEC-54	05-FEB-82	6205	NC	30-JUN-95	
5455	NE	15-FEB-61	15-DEC-78	6206	NE	02-APR-82	06-OCT-95
5456	NE	26-MAY-72	12-JUN-81	6207	NE	02-APR-82	21-FEB-92
5457	NE	08-MAR-63	01-DEC-78	6209	NC	04-SEP-70	
5458	NE	08-MAR-63	10-NOV-78	6211	NC	26-AUG-88	29-OCT-93
5459	NC	26-JAN-53	06-FEB-81	6212	NE	12-NOV-82	21-APR-95
5464	NC	16-DEC-54	07-MAY-82	6213	NE	10-AUG-84	28-JUL-89
5467	NC	18-MAR-55	29-JUN-90	6214	NC	18-MAR-77	07-JUL-89
5468	NC	18-MAR-55	04-SEP-81	6215	NC	01-JUL-77	08-MAY-92
5469	NC	18-MAR-55	12-NOV-82	6216	NC	02-APR-82	28-FEB-92
5471	NE	12-MAY-67	04-DEC-81	6217	NC	18-JUN-76	12-FEB-93
5476	NE	03-JUL-59	15-JUN-73	6218	NE	11-MAR-88	13-NOV-92
5510	NE	11-JAN-80		6240	NE	15-DEC-95	
5512	NC	18-DEC-87		6241	NE	06-AUG-57	28-MAY-82
5533	NE	11-MAR-77		6242	NE	13-JUN-80	01-MAY-92
5620	NE	21-JUN-91		6243	NE	10-DEC-71	17-NOV-95
5621	NE	26-APR-91		6247	NE	19-FEB-93	
5622	NE	27-DEC-91		6248	NC	04-MAY-34	06-NOV-95
5623	NE	08-NOV-91		6249	NE	29-MAR-85	
5624	NE	26-APR-91		6251	NE	18-JUL-86	05-APR-96
5625	NE	10-JUL-92		6258	NC	30-DEC-88	
5626	NC	08-AUG-86		6259	NC	23-FEB-90	
* 5628	NC	08-AUG-97		6260	NC	06-JAN-89	
5640	NC	22-APR-94		6263	NC	14-APR-89	
5705	NE	13-MAY-83		6264	NC	14-APR-89	
5706	NE	24-JUN-83		6267	NC	09-JUL-65	28-AUG-81
5707	NE	28-JAN-83		6268	NE	15-JUN-62	
5720	NC	22-APR-94		6269	NE	04-NOV-60	11-MAR-77
5800	NE	19-JUL-74	22-MAR-91	6270	NE	09-NOV-73	
5801	NE	24-MAY-74		6271	NE	07-SEP-73	
5860	NE	30-SEP-66	14-MAY-76	6272	NE	14-SEP-73	
5861	NE	30-SEP-66	14-MAY-76	6273	NE	28-SEP-73	
6021	NE	23-MAY-86		6274	NE	07-SEP-73	
6022	NE	23-MAY-86		6281	NE	29-JAN-82	25-MAR-88
6023	NE	26-FEB-88	30-JUN-95	6285	NC	03-JUN-88	
6026	NC	17-SEP-76		6286	NC	25-NOV-88	
6028	NC	15-JAN-71		6287	NC	11-JUN-82	
6030	NC	14-AUG-87		* 6301	NE	03-MAY-96	
6035	NC	20-NOV-87		6302	NE	20-APR-73	
6036	NC	28-AUG-87		6310	NE	04-MAY-73	17-FEB-78
6037	NC	13-NOV-87		6311	NC	17-AUG-62	
6038	NC	11-SEP-87		6321	NC	15-MAY-57	
6050	NE	01-AUG-86					

Chart Number	Cat	Edition Date	Reprint Date	Chart Number	Cat	Edition Date	Reprint Date
6322	NC	15-MAY-57		6455	SUPP	01-JAN-89	
6341	NE	14-JAN-91		6505	NC	05-APR-85	28-FEB-86
6354	NC	09-NOV-50		6506	NC	12-APR-85	21-FEB-86
6355	NE	09-FEB-72		6730	NC	26-DEC-69	16-MAR-79
6356	NC	30-OCT-49		7000	NC	05-MAR-82	
				7010	NE	12-JAN-79	04-MAR-88
6357	NC	28-FEB-50	13-APR-73	L/C	7011	NE	02-SEP-83
6358	NE	18-MAY-49	28-JAN-72		7050	NE	03-FEB-89
6359	NE	24-MAY-68			7051	NE	14-DEC-73
6360	NC	17-APR-48			7052	NE	10-JUN-66
6368	NC	16-JUN-58	06-AUG-76		7053	NE	10-APR-70
6369	NE	24-MAY-85			7065	NE	31-MAY-63
6370	NE	03-AUG-90			7066	NE	21-JUN-63
6371	NE	01-MAR-74			7067	NE	30-APR-71
6390	NE	08-FEB-80			7071	NE	31-JUL-64
6408	NE	13-FEB-87			7072	NE	30-APR-71
6409	NE	02-APR-93			7082	NE	20-MAY-66
*	6410	NE	05-APR-96		7083	NE	15-JUN-84
*	6411	NE	05-APR-96		7103	NE	05-AUG-77
*	6412	NE	18-APR-97		7121	NE	17-NOV-72
	6413	NE	17-FEB-89		7122	NE	19-OCT-62
	6414	NE	13-FEB-87		7125	NE	20-APR-60
*	6415	NE	18-APR-97		7126	NE	08-MAR-54
	6416	NE	31-MAY-91		7127	NE	27-MAY-83
*	6417	NE	18-APR-97		7134	NC	23-JUL-93
	6418	NE	01-APR-88		7135	NE	07-MAR-58
*	6419	NE	05-APR-96		7136	NC	23-JUL-93
*	6420	NE	18-APR-97		7150	NE	09-JUL-65
*	6421	NE	18-APR-97		7170	NE	18-APR-75
*	6422	NE	05-APR-96		7171	NE	15-APR-60
*	6423	NE	18-APR-97		7180	NE	11-AUG-78
*	6424	NE	18-APR-97		7181	NC	22-FEB-63
*	6425	NE	18-APR-97		7184	NC	10-JUL-64
*	6426	NE	18-APR-97		7185	NE	08-APR-60
*	6427	NE	18-APR-97		7193	NC	10-MAY-63
*	6428	NE	18-APR-97		7194	NE	20-MAR-81
	6429	NE	17-JUN-94		7195	NC	23-JUL-93
	6430	NE	01-APR-88		7212	NE	11-JAN-85
	6431	NE	01-APR-88		7220	NE	02-NOV-79
	6432	NE	02-JUN-95		7292	NC	30-JAN-62
	6433	NE	02-MAR-84		7302	NE	18-AUG-78
	6434	NE	20-FEB-87		7304	NC	17-FEB-78
	6435	NE	20-FEB-87		7310	NC	11-JUL-86
	6436	NE	31-MAY-91		7371	NE	14-DEC-73
	6437	NE	02-MAR-84		7404	NE	17-MAY-63
	6438	NE	02-APR-93		7405	NE	01-OCT-82
	6439	NE	02-MAR-84		7411	NE	13-APR-73
	6440	NE	02-MAR-84		7430	NE	21-MAY-76
	6441	NE	20-FEB-87		7465	NE	28-FEB-57
	6451	NE	17-JUN-94		7481	NC	21-AUG-92
	6452	NC	29-MAY-87		7482	NC	21-AUG-92
	6453	NC	29-MAY-87		7485	NC	17-MAR-89
	6454	NC	15-MAY-87		7486	NC	10-FEB-89
	6455	NC	15-MAY-87		7487	NC	10-JUL-87

Chart Number	Cat	Edition Date	Reprint Date	Chart Number	Cat	Edition Date	Reprint Date	
7488	NC	08-MAR-91		7832	NE	19-FEB-71	06-MAR-81	
7489	NC	28-AUG-92		7920	NE	27-APR-84	23-MAY-86	
7502	NC	04-SEP-81		7930	NE	18-MAY-84		
7511	NE	29-DEC-89		7935	NE	21-JUN-85		
7512	NC	05-JUL-85		7940	NE	27-APR-79	20-SEP-85	
7520	NC	01-JUN-84		7941	NC	05-JAN-73	14-MAR-86	
7521	NC	01-JUN-84		7950	NE	03-MAY-85		
7527	NE	12-APR-74	27-SEP-85	7951	NE	24-FEB-84		
7540	NC	07-JAN-83		7952	NE	17-MAR-72	27-JUL-84	
7552	NE	04-MAR-92		*	7953	NE	05-APR-96	
*	7565	NC	04-OCT-96		7954	NC	17-MAY-74	17-JUN-83
7566	NC	22-JUN-90		7980	NC	16-JAN-87		
7568	NC	05-JUL-85		L/C 8005	NE	07-DEC-84	02-MAY-97	
7569	NC	05-JUL-85		L/C 8006	NE	05-AUG-88		
7570	NC	02-MAY-86		L/C 8007	NE	19-AUG-88		
7571	NC	11-APR-86		L/C 8010	NE	01-AUG-86	26-MAY-89	
7572	NC	02-MAY-86		L/C 8011	NE	30-DEC-94		
7575	NC	06-MAR-92		L/C 8012	NE	04-NOV-94		
7578	NC	27-JAN-95						
7600	NC	26-JUL-85		L/C 8013	NE	04-NOV-94		
7608	NE	04-JUN-76	04-MAR-83	L/C 8014	NE	18-NOV-94		
*	7620	NC	02-MAY-97		L/C 8015	NE	16-DEC-94	
*	7621	NC	02-MAY-97		L/C 8046	NE	07-OCT-83	
7646	NE	02-FEB-73	28-NOV-80					
7661	NC	14-MAR-86		L/C 8047	NE	07-OCT-83	06-DEC-85	
7662	NE	19-JUL-91		L/C 8048	NE	30-DEC-94		
*	7663	NE	11-APR-97		L/C 8049	NE	30-DEC-94	
7664	NC	28-FEB-86		C-4	NC	25-JUL-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	05-AUG-83						
*	7710	NE	13-JUN-97					
7725	NE	22-JUN-84						
7731	NE	25-MAY-84						
7733	NE	19-MAR-71	08-FEB-80					
7735	NE	14-AUG-70	18-NOV-83					
*	7740	NE	30-MAY-97					
*	7750	NE	13-JUN-97					
7760	NC	03-MAY-68	19-AUG-83					
7770	NE	27-AUG-71	04-JUL-80					
*	7776	NE	30-MAY-97					
*	7777	NE	30-MAY-97					
*	7778	NE	13-JUN-97					
*	7779	NE	13-JUN-97					
7780	NC	06-JUL-90						
7781	NC	06-JUL-90						
*	7782	NE	13-JUN-97					
*	7783	NE	13-JUN-97					
7830	NE	02-MAR-84						

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(AMA8035-10-35)

<u>Chart Number</u>	<u>Cat</u>	<u>Edition Date</u>	<u>Reprint Date</u>
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(DFO-H98-003)

**\*100 HUDSON BAY - ESKIMO POINT - Depths.**

Charts (Last correction) - 5398(1-5,14,15)(624/97) - 5398(Inset, Eskimo Point)(6-13,16-18)(624/97) - 5399(1-5,14,15)(624/97)

1. Delete	depth of 3.6m	61°06'24" N 93°54'42" W
2. Delete	depth of 1m	61 06 48 N 94 03 21 W
3. Add	depth of 2.6m	61 06 28 N 93 55 02 W
4. Add	depth of 0.1m	61 06 47 N 94 03 22 W
5. Add	drying height of 1.5m	61 06 33 N 94 01 46 W
6. Delete	drying height of 0.9m	61 06 33 N 94 01 45.8 W
7. Delete	depth of 1m	61 06 46 N 94 03 20.5 W
8. Delete	depth of 6.4m	61 06 26.5 N 93 55 05.5 W
9. Add	depth of 2.6m	61 06 28.3 N 93 55 01.7 W
10. Add	depth of 8.7m	61 06 46 N 93 51 05.6 W
11. Add	drying height of 1.5m	61 06 33 N 94 01 45.8 W
12. Add	depth of 0.1m	61 06 46.6 N 94 03 22.1 W
13. Delete	depth of 3.4m	61 05 29 N 93 54 06 W
14. Delete	depth of 3.4m	61 05 24 N 93 54 02 W
15. Add	depth of 3.1m	61 05 26 N 93 54 06 W
16. Add	depth of 3.1m	61 05 26 N 93 54 05.6 W
17. Delete	depth of 2.9m	61 06 43 N 94 03 06 W
18. Add	depth of 0.4m	61 06 43.3 N 94 03 04.4 W

(AMA8035-10-35)

(DFO-C97-127)

**\*149 NORTHWEST TERRITORIES - BATHURST INLET - OFF TRIPLE ISLANDS - Shoal depths.**

Charts - 7780(NAD 27)(1,2)(New Chart, July/90) - 7781(NAD 27)(1,2)(120/93)

1. Add            3 metres 6 decimetres Repd            68°11'29" N 108°51'21" W  
                  1997

(AMA8035-10-35) (DFO-P97-070)

**\*105 BRITISH COLUMBIA - SPILLER CHANNEL - ELLERSLIE BAY - Drying rock.**

Chart (Last correction) - 3940(NAD 83)(1)(New Chart March/96)

1. Add rock which covers and uncovers, with drying height of 2 metres 7 decimetres

**NOTE:** Digital data products 3940R/M and 70087(3940) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35) (DFO-P97-046)

**IV**

**Monthly Edition No. 1/98**

**SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS**

Arctic Canada, Volume 3, Fifth Edition, 1994—

Pages 1, 2, 3 and 4 — Top of left column

Page 1 — Paragraph 12, last line

Page 1 — Paragraph 16, line 4

Page 6 — Before paragraph 110

Page 20 — Before paragraph 405

Cancel correction promulgated in Bi-weekly Edition No. 13/94.

Page 2 — Paragraph 30, line 2

Delete: "4 m ... 1987."

Replace by: awash.

Page 2 — Paragraph 34, line 2 – after "(1987)"

Insert: and has 4.5 m (15 ft) over it

Page 2 — Paragraph 35, line 2

Delete: 3 m (10 ft)

Replace by: 2 m (7 ft)

Page 7 — Delete paragraph 139.

(P2/98)

Page 8 — Paragraph 177, line 5 – before "*Ellice*"

Insert: *North*

Page 8 — Paragraph 177, last line

Delete: 3 m (10 ft)

Replace by: 4.6 m (15 ft)

Page 16 — Paragraph 333, lines 2 and 3

Delete: 2.2 m (7 ft)

Replace by: 3.2 m (10 ft)

Pages 26 and 27 — Top of left column (Re: correction promulgated in Bi-weekly Edition No. 13/94)

Delete: 7651

Replace by: 7621

Page 45 — Before paragraph 211

Page 45 — Before paragraph 225

Pages 46 and 47 — Top of left column

Page 47 — Before paragraph 241

Page 47 — Before paragraph 245

Page 47 — Before paragraph 249

Page 48 — Top of left column

Page 48 — Before paragraph 259

Cancel correction promulgated in Bi-weekly Edition No. 13/94.

**IV**

**Monthly Edition No. 1/98**

**SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS**

Page 62 — Paragraph 80, line 3

Delete: 250°

Replace by: 252°

Page 78 — Paragraph 299, line 6 – before “A shoal”

Insert: A shoal with a depth of 3.6 m (12 ft) (reported in 1997) lies  
0.8 mile south of Triple Islands in 68°11'N, 108°51'W.

British Columbia, Volume 2, Twelfth Edition, 1991 —

Page 137 — Paragraph 250, line 1 and lines 1 and 2

Line 1 — Delete: **Fog signal.** —

Lines 1 and 2 — Delete: “has a” to end of paragraph.  
Replace by: is on the rock.

(P1/98)

Small Craft Guide, British Columbia, Volume 2, Eighth Edition, 1990 —

Page 64 — Paragraph 66, lines 2 to 4

Cancel correction promulgated in Monthly Edition No. 10/97.

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

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

Ship (or address)

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

General locality:

Subject:

Approx. position: \_\_\_\_\_ Lat. \_\_\_\_\_ Long.  
Chart No. used to plot: \_\_\_\_\_ (Corrected to N/N No. \_\_\_\_\_ of 19 \_\_\_\_\_)

Publications affected: (Quote Volume and page)

\* Full details (Attach additional sheets as necessary)

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

**INSTRUCTIONS:**

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

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

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

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

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

OR

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

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