



Canada

Canada

VOL 23 MONTHLY EDITION NO 10
OCTOBER 30, 1998

WESTERN EDITION OF NOTICES TO MARINERS

Published monthly by the

CANADIAN COAST GUARD

NOTICES

1900 to 1960

CONTENTS

	Page
SEC. I Safety and General Information	1 - 14
SEC. II Chart Corrections	NIL
SEC. III Radio Aids to Marine Navigation Corrections	15
SEC. IV Sailing Directions and Small Craft Guide Corrections.....	17, 19
SEC. V Light List Corrections	21

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Mariners are advised that all relevant Written Notices to Shipping should be kept until superseded by Notices to Mariners or through revised charts issued by the Canadian Hydrographic Service.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

Laurentienne

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

Central & Arctic

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

Pacific

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

EXPLANATORY NOTES

Geographical positions refer directly to the graduations of the largest scale Canadian Hydrographic chart unless otherwise indicated.

Bearings refer to the true compass and are measured clockwise from 000° (North) clockwise to 359°; those relating to lights are from seaward.

Visibility of lights is that in clear weather.

Depths - The units used for soundings (metres, fathoms or feet) are stated in the title of each chart.

Elevations are normally given above Higher High Water, Large Tides unless otherwise indicated.

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

Distances may be calculated as follows:

1 nautical mile	=	1 852 metres (6,076.1 feet)
1 statute mile	=	1 609.3 metres (5,280 feet)
1 metre	=	3.28 feet

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

Please note that, in addition to the temporary and preliminary changes normally advertised as (T) and (P) Notices, there are a significant number of permanent changes to navigational aids that have been advertised as Preliminary Notices to Mariners while charts are being updated for new editions.

Marine Information Report & Suggestion Sheet - Mariners are requested to notify the responsible authorities when new or suspected dangers to navigation are discovered, changes observed in aids to navigation or corrections to publications are seen to be necessary. Such communications can be made using the *Marine Information Report & Suggestion Sheet* inserted on the last page of each monthly edition of *Notices to Mariners*.

Monthly edition of Notices to Mariners - *Notices to Mariners* are issued free of charge on a monthly basis. Mariners now have a choice between specific *Regional* issue(s) they wish to receive. Requests to be placed on or removed from the mailing list should be made by using the form inserted on page 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.

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

DGPS USER ALERT

Currently, seventeen DGPS stations are providing Initial Operational Service (IOS) in Canada. The DGPS station at Rigolet, Labrador will be installed in November 30/98. Extensive validation of operational performance is being conducted throughout 1998. Full Operational Service (FOS) will follow after successful validation. Mariners are reminded to use caution when using DGPS until the Service is declared fully operational.

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. Currently, seventeen DGPS stations are providing Initial Operational Service (IOS) in Canada. The DGPS station at Rigolet, Labrador will be installed in November 30/98.

Following a service validation period, it is expected that the DGPS service will be announced as providing a Full Operational Service (FOS) in March 1999. The fully operational DGPS service is expected to meet the advertised Levels of Service standards and all service guarantees will be provided with FOS.

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

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

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

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

User informations / Renseignements sur l'utilisateur

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

Anomaly report / Rapport d'anomalie

Date and time of the anomaly / Date et heure de l'anomalie: _____ Duration / Durée: _____
Number of satellites tracked on GPS receiver / Nombre de satellites reçus par le récepteur: _____
DGPS site using / Station DGPS utilisée: Freq.: _____ kHz SS: _____ dB SNR: _____ dB
DOP Geometry / Géométrie DOP : _____
User receiver operates correctly with other DGPS sites? /
Votre équipement DGPS fonctionne-t-il normalement à l'utilisation d'autres stations DGPS?: Yes/Oui _____
_No / Non _____
Comments / Commentaires: _____

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

Weather conditions / Conditions météo

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

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

User equipment information / Renseignements sur l'équipement

GPS receiver / Récepteur GPS: Make / Fabricant: _____ Model: _____
DGPS beacon receiver / Démodulateur DGPS: Make / Fabricant : _____ Model: _____
Gyro interface with GPS / Gyro intégré avec le GPS? Yes / Oui : _____ No / Non : _____
DGPS interfaced with an ECDIS / DGPS intégré dans un SVCEI? Yes / Oui: _____ No / Non : _____
If yes, please fill below / Si oui, S.V.P. compléter ci-dessous:

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

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

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

Canada

**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 light stations 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 light stations through continued operation or transfer to provincial, municipal or other authorities for local use.

2. Aids to Navigation Standards

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

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

3. Private Aids to Navigation

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

NEW INITIATIVES

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

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

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

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

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

CENTRAL & ARCTIC REGION

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

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

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

MONTHLY EDITION OF NOTICES TO MARINERS

MAILING LIST CHANGES

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) _____

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

OLD ADDRESS	
NAME	
STREET	APT
CITY	POSTAL CODE
PROVINCE	COUNTRY
NEW ADDRESS	
NAME	
STREET	APT
CITY	POSTAL CODE
PROVINCE	COUNTRY

ID number above address on label

or

Attach complete address label to this sheet

***1900 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 10 of 1998 (**The asterisk indicates changes since Monthly edition 8, 1998**). Please refer to the Monthly Notices to Mariners for detail.

Chart Number	Cat	Edition Date	Reprint Date	Chart Number	Cat	Edition Date	Reprint Date
-----------------	-----	-----------------	-----------------	-----------------	-----	-----------------	-----------------

1	NE	05-JAN-96			1437	NC	19-MAR-93	30-MAY-97
1202	NE	13-NOV-81	20-MAY-94		1438	NE	06-OCT-95	
1203	NE	04-JAN-85	10-FEB-95		1439	NE	22-FEB-91	07-FEB-97
1209	NE	14-DEC-84	02-AUG-96		1509	NC	18-MAY-90	27-JUN-97
1220	NE	28-FEB-97			1510	NE	23-JAN-98	
L/C 1221	NE	27-DEC-91			1512	NE	03-AUG-84	09-OCT-92
1223	NE	03-OCT-97			1513	NE	07-JUN-96	
1226	NC	27-MAY-83	03-MAY-91	*	1514	NC	24-JUL-98	
1229	NE	31-DEC-76	15-DEC-95	*	1515	NC	24-JUL-98	
1230	NE	29-FEB-80	10-FEB-89		1550	NE	05-JAN-96	
1233	NE	18-MAY-84	03-JAN-97		1551	NE	27-JUN-86	
L/C 1234	NE	02-JUL-93	20-OCT-95	*	1552	NE	05-JUN-98	
L/C 1235	NE	25-APR-97			1553	NC	15-FEB-80	21-APR-95
L/C 1236	NE	01-MAR-96			1554	NE	16-SEP-88	15-AUG-97
1260	NC	04-JAN-91			1555	NC	12-OCT-79	
* 1310	NE	29-MAY-98			L/C 2000	NE	10-APR-98	
1312	NC	05-APR-96			2006	NE	03-JUL-87	16-FEB-90
1313	NE	27-JUN-97			2007	NE	10-SEP-82	09-SEP-94
1314	NC	18-OCT-85	01-MAR-96		2011	NC	08-JUL-88	
1315	NE	05-JUL-96			2017	NC	13-JUL-90	
1316	NE	07-FEB-97			2018	NC	22-JUN-90	
1317	NE	07-JUN-96			2021	NE	25-JUN-93	
1338	NE	05-APR-96	10-JUL-98		2022	NE	02-AUG-96	
1339	NE	19-AUG-83	03-JAN-97		2023	NE	01-MAR-85	24-MAR-95
1350	NC	06-JUL-84	25-MAR-94		2024	NE	29-MAR-85	16-DEC-94
1351	NC	21-SEP-84	11-AUG-95		2025	NE	01-MAR-85	28-MAY-93
1361	NC	28-MAY-76	01-MAR-96		2026	NE	05-APR-85	15-DEC-95
1400	NE	26-AUG-88		*	2028	NE	05-JUN-98	
1409	NE	27-JUN-97			2029	NE	20-MAR-87	08-MAY-92
1411	NE	02-AUG-96			2042	NE	07-OCT-94	
1412	NE	13-JAN-84	05-JUL-96		2043	NC	29-NOV-68	26-MAR-82
1413	NE	21-AUG-87	05-JUL-96		2044	NC	28-FEB-97	
1414	NE	01-JUN-84	24-FEB-95		2047	NC	07-APR-95	
1434	NC	01-MAR-96			2048	NC	11-OCT-91	
1435	NC	15-DEC-95			2049	NC	10-MAY-85	
1436	NC	15-JAN-93	03-JAN-97		2050	NC	10-MAY-85	

2053	NC	10-MAY-85		2268	NE	31-MAR-89	06-MAY-94
2054	NC	10-MAY-85		2273	NC	13-OCT-55	22-AUG-75
2055	NC	05-JUL-91		2274	NE	08-JUN-90	
L/C 2058	NE	16-JUN-89		L/C 2282	NE	07-JUN-96	
L/C 2060	NE	28-JUN-85	01-JUL-94	L/C 2284	NE	27-OCT-89	07-JUN-96
2061	NE	18-MAR-77	13-JAN-89	2286	NE	21-JAN-83	25-AUG-95
L/C 2064	NE	10-FEB-89	05-MAY-95	2289	NE	16-OCT-87	05-JUN-92
2067	NE	01-NOV-85	15-FEB-91	2291	NE	12-JUL-81	15-APR-88
2069	NE	04-MAR-83	13-FEB-98	2292	NE	28-APR-89	05-APR-96
2070	NE	29-APR-83		2293	NE	11-JUN-65	12-DEC-80
L/C 2077	NE	25-AUG-95		2294	NE	23-JUN-89	24-JAN-97
2085	NE	22-JUN-90	08-APR-94	2297	NE	20-JAN-60	19-SEP-97
2086	NC	09-JUN-89	03-APR-92	2298	NE	02-JUL-58	13-FEB-81
L/C 2100	NE	15-MAY-87	02-APR-93	2299	NE	30-SEP-83	30-JUN-95
L/C 2110	NE	29-MAY-98		L/C 2300	NC	24-APR-98	
L/C 2120	NE	27-MAR-87	06-MAR-92	L/C 2301	NE	22-FEB-91	
L/C 2121	NC	18-DEC-87		L/C 2302	NE	02-AUG-85	
L/C 2122	NE	05-JUL-91	05-APR-96	2303	NE	18-MAY-55	29-JUN-90
L/C 2123	NE	12-MAR-93	04-APR-97	2304	NE	31-MAY-57	01-FEB-80
2140	NC	16-SEP-88		2305	NE	17-DEC-56	08-FEB-80
2165	NC	08-MAR-91		2306	NE	03-MAY-57	09-MAY-75
2181	NE	10-NOV-89		2307	NE	31-AUG-56	11-MAR-77
L/C 2200	NE	01-MAY-87	17-APR-92	2308	NE	19-JUL-46	21-APR-78
L/C 2201	NE	21-SEP-84	25-FEB-94	L/C 2309	NE	08-JUL-88	
2202	NE	04-APR-86	10-MAR-95	2310	NE	03-JUN-46	01-FEB-80
2203	NE	07-OCT-88	13-NOV-92	2311	NE	08-JAN-58	12-APR-91
2204	NE	06-MAY-83	12-FEB-93	2312	NE	13-NOV-87	08-APR-94
2205	NE	18-DEC-87	06-MAR-92	2313	NE	21-JUN-57	28-OCT-77
2206	NC	27-JUN-97		2314	NE	11-JUL-86	
2212	NC	24-FEB-95		2315	NE	22-APR-88	
2213	NC	24-FEB-95		2318	NE	03-DEC-82	
2214	NC	07-OCT-94		2400	NE	29-JUN-90	
2215	NC	12-AUG-94		L/C 3000	NE	20-JAN-89	22-APR-94
2218	NC	13-APR-84		L/C 3001	NE	07-OCT-94	
2221	NE	07-JUN-96		L/C 3002	NE	16-DEC-94	
2222	NC	13-APR-84		3050	NE	03-MAY-96	
2223	NC	13-APR-84		3052	NE	07-OCT-94	
2225	NE	08-MAR-91	11-JUL-97	3053	NC	11-APR-86	02-FEB-90
2226	NE	22-NOV-91		3055	NC	21-JUN-91	
L/C 2228	NC	16-FEB-90		3056	NC	21-JUN-91	
2235	NE	06-FEB-87	30-DEC-94	3057	NC	21-JUN-91	
2239	NE	08-MAR-85	01-MAR-96	3058	NC	21-JUN-91	
L/C 2243	NE	30-AUG-85	08-APR-94	3061	NC	29-MAY-81	21-JUN-85
L/C 2244	NE	24-JUL-87	16-JUN-95	3062	NC	24-MAY-85	
L/C 2245	NE	06-JUN-86	05-APR-96	3080	NE	03-APR-92	
2250	NC	09-MAY-86		3311	NE	31-DEC-93	
2251	NC	11-APR-86	26-JUN-92	3312	NC	31-JAN-86	05-APR-91
2257	NE	02-NOV-84	07-JUN-96	3313	NC	28-JUL-95	
2258	NE	16-JUN-89	05-APR-96	3410	NC	24-MAR-95	
2259	NE	15-JUN-62	02-JUL-93	3411	NC	24-MAR-95	
2260	NE	13-JUN-86	05-APR-91	3415	NE	13-FEB-87	08-APR-94
2261	NE	13-JUN-86	21-APR-95	3419	NC	02-JUL-93	
2266	NC	22-JUN-84		3424	NC	24-JUL-87	02-APR-93
2267	NC	22-JUN-84		3440	NE	11-MAR-83	15-OCT-93

3441	NE	12-AUG-88	06-DEC-96	3646	NE	30-JUN-95	
3442	NE	03-JUN-88	06-DEC-96	3647	NE	05-JUL-85	02-JAN-98
3443	NE	30-JAN-98		3651	NE	09-APR-93	
3457	NE	29-DEC-89	01-MAY-98	3662	NE	07-AUG-87	17-DEC-93
3458	NE	10-MAR-95		3663	NE	31-MAY-74	14-AUG-92
3459	NE	24-OCT-97		3664	NE	13-MAY-77	05-APR-96
L/C 3461	NC	06-JAN-84	02-DEC-94	3665	NE	13-NOV-87	11-MAR-94
L/C 3462	NC	13-JUL-84	27-AUG-93	3668	NE	12-MAR-93	
L/C 3463	NE	03-OCT-97		3670	NE	21-OCT-94	
3473	NE	13-FEB-87	04-DEC-92	3671	NE	27-AUG-82	03-JUN-94
3475	NE	27-MAY-88	02-JUL-93	3673	NC	01-DEC-95	
3476	NC	31-AUG-84	22-APR-94	3674	NC	01-DEC-95	
3477	NE	03-MAY-85	08-SEP-89	3679	NC	14-JUN-91	21-FEB-97
3478	NE	24-FEB-95		3680	NE	07-APR-78	26-APR-91
3481	NE	05-DEC-86	17-DEC-93	3681	NC	08-JUN-90	
3488	NC	21-OCT-94		3682	NE	05-JUN-87	
3489	NC	21-OCT-94		3683	NE	06-MAR-98	
3490	NE	25-JUL-97		3685	NE	25-AUG-95	
3491	NE	05-JAN-96		3686	NC	08-APR-88	02-DEC-94
3492	NC	27-JUN-97		3710	NE	04-JUL-86	15-JUN-90
3493	NE	01-JUL-94		3711	NE	15-JUN-84	19-FEB-93
3494	NE	21-FEB-92		3717	NE	28-JUL-95	
3495	NE	21-FEB-92		3719	NE	17-APR-61	11-NOV-88
L/C 3512	NC	30-NOV-84	05-MAR-93	3720	NE	12-FEB-88	03-SEP-93
L/C 3513	NC	30-NOV-84	19-FEB-93	3721	NE	26-AUG-94	
3514	NE	02-AUG-96		3722	NE	07-FEB-64	04-SEP-87
3515	NC	18-JAN-91	03-JUN-94	3723	NE	29-JUN-84	
3526	NE	24-FEB-95		3724	NE	23-MAY-80	21-APR-95
3527	NE	01-JAN-88	02-APR-93	3726	NE	23-MAY-80	06-JAN-89
3534	NE	07-MAY-93		3727	NE	29-JUN-62	24-MAR-95
3535	NE	16-AUG-85	16-APR-93	3728	NE	05-FEB-82	24-JAN-97
3536	NC	21-APR-78	16-APR-93	3729	NE	06-MAR-98	
3537	NC	27-SEP-85	22-JUN-90	3730	NC	30-NOV-60	21-DEC-90
3538	NE	27-NOV-92	02-AUG-96	3733	NC	01-FEB-56	
3539	NE	04-AUG-89	25-APR-97	-A	NE	09-JUL-76	24-MAY-91
3540	NE	22-MAY-92		3734	NE	31-AUG-90	
3541	NE	29-JUL-94		3736	NE	14-AUG-87	21-APR-95
3542	NE	01-JUL-94		3737	NE	04-FEB-83	24-MAR-95
3543	NE	27-NOV-92	30-MAY-97	3738	NE	03-FEB-84	01-SEP-89
3544	NE	25-SEP-87	01-MAY-98	3739	NE	20-MAY-77	06-DEC-96
3545	NC	28-APR-89	12-AUG-94	3740	NE	15-FEB-63	30-JUN-89
3546	NC	28-APR-89	11-JUL-97	3741	NE	16-JUL-82	02-AUG-96
3547	NC	28-APR-89	05-APR-96	3742	NE	25-MAR-77	10-FEB-95
3548	NE	26-SEP-97		3743	NE	20-MAY-88	
3549	NC	03-DEC-93	05-APR-96	L/C 3744	NE	12-JUN-98	
3550	NC	03-DEC-93	02-JAN-98	3745	NE	12-AUG-77	02-JUL-93
3552	NC	02-JAN-87	02-APR-93	3746	NE	16-SEP-77	30-MAY-97
3555	NE	27-JUN-86	09-APR-93	3747	NE	30-APR-59	12-AUG-88
3559	NC	15-JUN-79	02-FEB-90	3753	NE	19-AUG-88	
3564	NC	04-DEC-87	08-SEP-95	3761	NE	30-OCT-64	29-JAN-93
3598	NE	14-AUG-87	11-OCT-91	3772	NE	26-APR-85	06-DEC-96
3601	NC	26-AUG-94		3773	NE	18-MAY-59	15-MAR-91
L/C 3602	NE	24-MAY-85	12-AUG-94	3781	NE	23-JUL-82	16-DEC-94
L/C 3603	NE	23-OCT-81	01-NOV-91	3784	NE	04-OCT-91	12-JUN-98
L/C 3604	NE	06-NOV-87	13-JUN-97	3785	NC	05-JUL-46	12-MAR-93
L/C 3605	NE	06-MAR-98		3786	NE	29-JUL-77	04-APR-97
L/C 3606	NE	27-JUL-84	03-SEP-93	3787	NE	07-FEB-75	17-MAR-89
3623	NE	26-AUG-77	06-JAN-89	3794	NE	01-MAY-64	09-JUL-93
3624	NE	19-AUG-88	22-APR-94	3795	NE	24-NOV-89	
3625	NC	25-OCT-68	10-MAR-89	L/C 3802	NC	07-JAN-60	07-OCT-88
				3807			

3808	NC	30-MAR-62	13-OCT-89	L/C 4026	NE	27-DEC-91	18-JUL-97
3809	NE	24-AUG-79	24-MAR-95	L/C 4045	NC	08-AUG-86	
3811	NE	06-DEC-63	27-SEP-91	L/C 4047	NE	19-MAY-89	
3825	NE	16-DEC-77	09-JUN-89	L/C 4049	NE	19-MAY-95	
L/C 3853	NE	02-MAR-90	05-APR-96	L/C 4098	NC	21-SEP-84	
L/C 3854	NE	23-OCT-87	23-APR-93	L/C 4099	NC	21-SEP-84	
3855	NE	13-JAN-67	26-APR-91	4114	NC	08-MAY-92	
3857	NE	17-NOV-67	10-JUL-87	4117	NC	28-OCT-88	
3858	NE	28-JUL-67	28-JUL-89	L/C 4118	NC	22-MAY-87	06-MAR-98
3859	NE	17-JUN-66	18-JUL-80	4124	NC	07-AUG-92	
3860	NE	12-SEP-69	05-JAN-90	4130	NC	30-MAY-69	17-DEC-76
3863	NE	25-APR-80	16-MAR-90	4140	NC	07-JAN-72	02-JUL-82
3864	NE	11-MAY-62	17-DEC-93	4141	NE	01-NOV-96	
3865	NE	01-NOV-55	10-JUL-87	4142	NE	01-NOV-96	
3868	NE	12-JUL-68	19-APR-91	4145	NE	22-MAR-91	
3869	NE	28-NOV-86	02-MAR-90	4170	NC	28-FEB-92	
3890	NC	14-MAR-86	07-APR-95	4201	NE	26-JAN-90	10-MAR-95
3891	NC	08-SEP-89	01-AUG-97	4202	NC	14-AUG-87	17-OCT-97
3892	NC	13-JAN-84	03-JUN-94	4203	NC	07-AUG-87	07-NOV-97
3893	NC	13-JAN-84		4209	NC	21-OCT-94	
3894	NE	12-JUN-98		4210	NC	05-APR-91	
3895	NC	15-JUN-84	09-JUN-89	4211	NE	07-DEC-90	02-JUN-95
L/C 3902	NE	09-DEC-88	27-JUN-97	L/C 4227	NC	24-MAY-91	
3909	NC	11-DEC-87	03-JUN-94	L/C 4230	NC	15-JUN-90	26-JUN-98
3920	NC	18-JAN-91		L/C 4233	NC	11-JAN-91	
3921	NE	15-DEC-95		L/C 4234	NC	10-APR-87	26-DEC-97
3927	NE	29-MAY-98		L/C 4235	NC	31-MAR-89	
3931	NC	21-FEB-92		L/C 4236	NC	30-JAN-87	28-JUL-95
3932	NC	21-FEB-92	12-JUN-98	L/C 4237	NC	30-DEC-88	30-JAN-98
3933	NE	20-JAN-89	19-FEB-93	L/C 4240	NC	06-OCT-89	06-JUN-97
3934	NC	21-FEB-92	02-JUN-95	L/C 4241	NC	01-DEC-89	02-AUG-96
3940	NC	01-MAR-96		L/C 4242	NE	28-AUG-92	
3955	NC	15-FEB-85	20-MAY-94	L/C 4243	NC	20-JUN-86	25-AUG-89
3956	NE	01-MAR-96		4244	NC	21-FEB-86	26-APR-91
* 3957	NE	05-JUN-98		4245	NE	28-NOV-86	25-DEC-92
3958	NE	24-MAR-95		L/C 4255	NC	27-JUL-90	
3959	NC	11-DEC-87	03-JUL-92	4266	NC	29-SEP-89	
3960	NC	13-AUG-93		4275	NE	23-DEC-83	03-MAY-96
3962	NE	26-JAN-79	18-JUN-93	4276	NE	25-JUL-97	
3963	NC	26-OCT-90	12-JUN-98	* 4277	NE	17-APR-98	
3964	NC	07-JUN-91		4278	NE	20-MAR-98	
3994	NE	20-JAN-89	22-SEP-95	4279	NE	13-JUN-86	13-SEP-91
4000	NE	14-DEC-84		4281	NE	20-FEB-87	14-JUL-95
L/C 4001	NE	01-DEC-95		4306	NE	14-JUN-85	07-JUN-96
L/C 4002	NE	27-DEC-91	05-JUL-96	4307	NE	15-FEB-85	13-NOV-92
L/C 4003	NE	14-DEC-84	29-JUL-94	4308	NE	07-SEP-84	27-SEP-91
L/C 4006	NE	14-DEC-84	19-FEB-93	L/C 4320	NE	26-SEP-97	
L/C 4010	NE	18-NOV-83	10-JUL-92	L/C 4321	NE	11-OCT-85	01-FEB-91
L/C 4011	NE	31-OCT-97		* 4328	NE	10-JUL-98	
L/C 4012	NE	13-MAR-87	14-JUL-95	4331	NE	19-OCT-84	26-DEC-97
L/C 4013	NE	07-NOV-86	03-JUL-92	4332	NE	29-DEC-61	24-JAN-97
L/C 4015	NE	24-JUL-92		L/C 4335	NE	27-SEP-85	
L/C 4016	NE	05-MAY-95		4337	NE	03-JAN-86	
L/C 4017	NE	16-JUN-95		L/C 4340	NE	12-APR-91	
L/C 4020	NE	27-DEC-91		4342	NE	03-JUN-88	26-APR-91
L/C 4021	NE	27-DEC-91		L/C 4363	NE	01-NOV-85	13-NOV-92
L/C 4022	NE	27-DEC-91	02-AUG-96	4365	NE	08-DEC-72	29-FEB-80
L/C 4023	NE	28-NOV-86	05-JAN-96	L/C 4367	NE	01-NOV-85	06-JUL-90
L/C 4024	NE	27-DEC-91		L/C 4374	NE	27-DEC-85	26-MAR-93
L/C 4025	NE	27-DEC-91		L/C 4375	NE	25-OCT-85	01-JAN-93

4376	NE	02-OCT-87	11-AUG-95	4492	NC	04-FEB-66	25-JUL-80
4377	NE	10-JAN-86		4497	NE	30-JUL-71	12-OCT-79
4379	NE	31-OCT-86	14-FEB-92	4498	NE	23-OCT-87	03-NOV-95
4381	NE	17-JAN-86	03-MAY-96	4504	NE	14-FEB-64	23-JAN-76
4384	NE	31-OCT-86	13-AUG-93	4505	NC	14-FEB-64	14-FEB-75
L/C 4385	NE	07-JUN-96		4506	NC	28-FEB-64	25-JUN-82
4386	NE	03-OCT-86	24-MAR-95	4507	NC	28-FEB-64	30-JAN-76
4391	NE	21-FEB-92		4509	NC	05-DEC-69	21-JUL-78
4394	NE	14-SEP-90		4510	NC	22-MAR-68	15-JUL-94
4395	NE	25-MAY-90		4511	NC	10-JUL-64	17-OCT-80
4396	NE	19-FEB-88	30-JUL-93	4512	NC	30-OCT-64	09-FEB-79
4399	NC	03-APR-42	26-AUG-83	4514	NE	23-OCT-81	29-SEP-89
4402	NE	11-SEP-59	20-MAR-81	4515	NC	21-MAY-52	02-JAN-81
L/C 4403	NE	21-JUN-85	24-DEC-93	4516	NE	02-NOV-62	10-DEC-76
L/C 4404	NE	26-JUL-85	29-JUN-90	4518	NC	18-OCT-51	26-JAN-79
L/C 4405	NE	12-JUL-85	21-JUL-89	4519	NC	13-OCT-51	04-FEB-83
L/C 4406	NE	27-FEB-98		L/C 4520	NE	02-JUN-95	
* 4416	NE	01-MAY-98		4521	NE	04-JUN-65	08-SEP-78
4419	NE	12-AUG-88	02-FEB-96	4522	NC	15-JUL-59	04-SEP-81
4420	NE	03-OCT-69	06-NOV-81	4523	NC	27-MAR-64	13-JUN-75
4421	NE	11-OCT-68	23-MAR-79	4524	NE	07-FEB-64	15-AUG-80
4422	NE	10-OCT-69	17-JUN-94	4529	NE	30-SEP-88	
4425	NE	02-MAY-80	17-OCT-97	4530	NE	11-MAR-83	17-APR-92
4426	NE	18-MAR-88		4531	NC	24-MAY-74	14-MAR-97
4428	NE	06-OCT-78		4535	NC	12-MAR-65	21-AUG-81
4429	NE	04-JUN-93		4536	NC	20-SEP-63	14-FEB-75
4430	NE	02-OCT-81	21-MAY-93	4538	NE	26-MAR-76	
4432	NE	14-DEC-84	15-JUN-90	4540	NC	10-OCT-57	26-JAN-79
4437	NE	17-MAY-91		4541	NC	10-OCT-57	03-OCT-80
4440	NE	18-JUL-80		4542	NE	09-SEP-66	23-JAN-76
4443	NC	16-JUN-67	18-FEB-77	4543	NC	10-OCT-57	10-NOV-78
4445	NC	17-JUN-49	07-DEC-79	L/C 4560	NE	14-MAR-86	25-DEC-92
4446	NC	06-JAN-53	31-DEC-93	4582	NC	14-FEB-64	10-SEP-76
4447	NE	09-NOV-84		4583	NC	16-JAN-61	02-JUL-82
4448	NE	27-APR-90		4584	NC	02-JAN-59	14-NOV-80
* 4449	NE	03-JUL-98		4585	NC	02-JAN-59	29-AUG-80
4450	NE	02-MAR-73	13-NOV-87	4587	NE	04-SEP-87	21-AUG-92
L/C 4451	NE	27-MAR-87	15-JUL-88	4591	NC	02-JAN-59	18-AUG-78
4452	NE	29-JUL-83		4592	NE	03-JUN-83	02-APR-93
4453	NE	17-DEC-82		4593	NC	20-JAN-60	12-JUN-81
4454	NE	03-FEB-78		4594	NC	02-JAN-59	14-FEB-92
4455	NE	10-SEP-76	20-OCT-89	4595	NC	02-JAN-59	04-FEB-83
4459	NE	22-JAN-88		4596	NC	02-JAN-59	09-JAN-81
4460	NE	11-SEP-87	03-MAY-91	4597	NC	02-JAN-59	09-OCT-81
L/C 4462	NE	28-JUN-85	06-JUN-97	4598	NE	21-JAN-83	
L/C 4463	NE	09-AUG-85	15-JUN-90	4609	NE	20-SEP-63	07-JAN-77
L/C 4464	NE	11-OCT-85	15-JUN-90	4615	NE	22-MAY-87	
4466	NE	17-MAY-91	01-MAR-96	4616	NE	19-APR-91	17-OCT-97
4467	NE	21-MAR-69	01-MAR-96	4617	NE	19-MAY-89	25-APR-97
4468	NE	12-JUL-85		4619	NC	29-NOV-63	29-OCT-93
4469	NE	08-NOV-85		L/C 4622	NE	25-APR-97	
4470	NE	04-JAN-80		L/C 4624	NE	17-JAN-86	
4471	NE	11-FEB-77	11-AUG-89	L/C 4625	NE	10-JAN-86	22-APR-88
4472	NE	14-AUG-81		L/C 4626	NE	08-NOV-85	22-APR-88
4473	NE	25-NOV-77		4633	NE	24-APR-87	21-APR-95
4474	NE	31-DEC-76		4634	NE	14-JUL-95	
4483	NE	12-AUG-88		4635	NE	24-JUN-83	28-NOV-97
L/C 4485	NE	26-SEP-97		4637	NE	14-AUG-87	19-MAY-89
L/C 4486	NE	19-OCT-84	24-MAR-95	4638	NC	20-SEP-55	12-DEC-80
4491	NC	06-MAY-66	01-FEB-80	4639	NC	20-SEP-55	12-DEC-80

4640	NE	10-AUG-84		4849	NC	30-DEC-88	
4641	NE	31-AUG-84		L/C 4850	NC	11-MAY-90	
4642	NC	18-JAN-60	31-MAR-78	L/C 4851	NE	04-APR-97	
4643	NE	03-MAY-85	15-MAY-92	4852	NC	02-DEC-94	
4644	NC	01-DEC-67	04-SEP-92	L/C 4853	NC	13-OCT-89	
4652	NE	31-OCT-80		4854	NC	25-APR-97	
4653	NE	12-MAR-76	24-MAR-95	4855	NC	06-JUN-97	
4654	NC	27-OCT-52	22-SEP-78	4865	NC	30-JAN-98	
4658	NC	08-MAY-70	15-FEB-80	4885	NE	12-FEB-88	
4659	NC	10-OCT-57	08-SEP-78	* 4886	NC	26-DEC-97	
4661	NC	20-SEP-55	23-JUN-89	L/C 4905	NC	22-JUL-88	24-JUL-92
4663	NC	10-OCT-57	03-SEP-76	L/C 4906	NC	18-MAR-88	11-JUN-93
4665	NC	10-OCT-57	08-MAY-81	4909	NC	17-JUN-88	01-MAR-96
4666	NC	10-OCT-57	20-JUN-86	4911	NE	07-MAY-93	
4667	NE	08-OCT-65	13-AUG-76	4912	NE	04-JUN-93	
4668	NC	10-OCT-57	23-OCT-87	L/C 4913	NC	07-AUG-92	
4669	NC	10-OCT-57	29-MAR-85	4920	NC	29-SEP-89	
4670	NC	10-OCT-57	29-JUL-77	4921	NE	06-MAR-98	
4679	NE	31-DEC-76	04-JUN-82	L/C 4951	NC	04-JAN-91	
4680	NC	02-JAN-59	27-FEB-76	L/C 4952	NC	21-AUG-92	
4682	NC	19-OCT-62	01-MAY-87	4954	NE	20-JUN-97	
L/C 4700	NE	30-DEC-94		4955	NC	15-FEB-91	
4701	NC	27-DEC-63	23-OCT-81	4956	NC	23-NOV-90	
4702	NC	17-JAN-64	28-SEP-90	4957	NC	13-JUL-90	
4703	NE	31-JAN-64	26-AUG-94	4980	NC	03-JAN-92	
4705	NE	30-JAN-56	06-AUG-76	L/C 5001	NE	04-NOV-94	
4712	NC	21-FEB-64	01-FEB-74	5002	NC	25-JUL-75	
4722	NE	27-FEB-87		5003	NE	26-SEP-69	23-JUL-76
4724	NE	20-MAY-60	08-SEP-78	L/C 5023	NC	20-APR-90	
4725	NC	09-JUN-53	28-AUG-81	L/C 5030	NC	26-OCT-90	
4728	NE	16-JUN-95		5031	NC	04-JAN-91	
L/C 4730	NE	07-OCT-83	17-OCT-97	5042	NC	24-FEB-84	
L/C 4731	NE	16-DEC-94		5043	NC	29-JUN-84	
4732	NE	27-DEC-68	22-FEB-80	5044	NC	10-JUN-83	
4744	NC	22-FEB-63	27-NOV-81	5045	NC	01-JUL-83	
4745	NC	17-MAY-63	09-OCT-87	5046	NC	13-JAN-84	
4763	NC	01-FEB-63	26-JUL-85	5047	NC	17-AUG-84	
4764	NC	01-FEB-63	09-NOV-90	5048	NC	07-AUG-87	
4765	NC	29-NOV-63	26-APR-85	5049	NC	08-APR-88	
4766	NC	06-DEC-63	05-APR-96	5051	NC	07-JUN-96	
4767	NC	06-DEC-63	06-JUL-90	5052	NC	25-APR-97	
4769	NE	19-SEP-75	03-MAY-85	* 5070	NC	31-JUL-98	
4771	NE	02-JUL-76	29-JUL-83	5080	NC	03-OCT-97	
4773	NC	29-NOV-63	29-DEC-78	5133	NC	10-OCT-69	14-MAY-82
4774	NC	24-JAN-64	19-MAR-82	5134	NC	11-AUG-67	16-MAR-73
L/C 4775	NE	09-SEP-83	02-MAY-97	5135	NC	11-AUG-67	19-FEB-88
L/C 4776	NE	08-JUL-83		5138	NE	17-APR-98	
L/C 4817	NC	11-APR-86		5140	NC	15-NOV-63	20-OCT-78
4830	NC	14-FEB-86		5143	NE	02-MAY-86	
L/C 4831	NC	26-DEC-86		5179	NC	28-AUG-64	12-JUN-81
L/C 4832	NC	02-OCT-87		5300	NC	25-NOV-66	25-NOV-77
4839	NC	27-MAR-92		5316	NC	24-AUG-61	25-JAN-80
L/C 4841	NC	19-MAY-89		5335	NC	15-MAR-85	
L/C 4842	NE	03-MAR-89		5338	NC	06-JUN-86	
4843	NC	28-JAN-83		5340	NC	19-APR-63	14-DEC-79
L/C 4844	NC	01-FEB-85	25-MAR-94	5348	NE	05-NOV-76	
L/C 4845	NE	12-SEP-97		5349	NC	05-MAR-58	03-MAR-78
L/C 4846	NE	15-DEC-95		5351	NC	24-FEB-56	25-MAR-83
L/C 4847	NE	05-JUL-96		5352	NE	08-JUL-60	16-MAY-80
4848	NC	12-JUN-87		5365	NC	26-SEP-69	25-AUG-89

5373	NC	15-FEB-85		6030	NC	14-AUG-87	
5374	NC	17-JAN-86		6035	NC	20-NOV-87	
5375	NC	28-FEB-86		6036	NC	28-AUG-87	
5376	NC	22-MAR-85		6037	NC	13-NOV-87	
5390	NC	17-MAY-68	04-NOV-88	6038	NC	11-SEP-87	19-SEP-97
5391	NC	17-MAY-68	18-FEB-83	6050	NE	01-AUG-86	
5396	NC	01-JUN-60	26-SEP-75	6100	NC	15-MAY-87	10-APR-92
5397	NC	04-NOV-60	18-NOV-83	6101	NC	10-APR-64	
5398	NE	04-SEP-81		6105	NE	20-JAN-89	
5399	NE	04-SEP-81		6106	NE	21-JUN-91	
5400	NE	19-DEC-60	23-APR-82	6107	NE	10-JUN-83	
5403	NE	04-FEB-87		6108	NE	28-JAN-83	05-JUN-92
5405	NC	26-DEC-51	25-MAR-88	6109	NE	30-MAR-90	
5406	NC	06-MAR-14	15-AUG-80	6110	NE	24-FEB-89	15-DEC-95
5410	NE	25-MAR-77	19-MAR-93	6111	NE	11-MAR-83	
5411	NE	04-JUN-58	30-JAN-81	6112	NC	06-FEB-70	25-MAR-94
5412	NE	23-FEB-68	27-APR-84	6201	NE	16-MAR-73	22-NOV-91
5414	NE	06-AUG-37	10-OCT-80	6205	NC	30-JUN-95	
5427	NC	11-JUN-59	31-OCT-80	6206	NE	02-APR-82	06-OCT-95
5440	NE	01-NOV-74	06-FEB-81	6207	NE	02-APR-82	21-FEB-92
5449	NE	15-AUG-86		6209	NC	04-SEP-70	
5450	NE	22-MAY-70	29-JUL-77	6211	NC	26-AUG-88	29-OCT-93
5451	NE	05-NOV-65	22-MAR-85	6212	NE	12-NOV-82	21-APR-95
5452	NC	16-DEC-54	05-FEB-82	6213	NE	10-AUG-84	28-JUL-89
5455	NE	15-FEB-61	15-DEC-78	6214	NC	18-MAR-77	07-JUL-89
5456	NE	26-MAY-72	12-JUN-81	6215	NC	01-JUL-77	08-MAY-92
5457	NE	08-MAR-63	01-DEC-78	6216	NC	02-APR-82	28-FEB-92
5458	NE	08-MAR-63	10-NOV-78	6217	NC	18-JUN-76	12-FEB-93
5459	NC	26-JAN-53	06-FEB-81	6218	NE	11-MAR-88	13-NOV-92
5464	NC	16-DEC-54	07-MAY-82	6240	NE	15-DEC-95	
5467	NC	18-MAR-55	29-JUN-90	6241	NE	06-AUG-57	28-MAY-82
5468	NC	18-MAR-55	04-SEP-81	6242	NE	13-JUN-80	01-MAY-92
5469	NC	18-MAR-55	12-NOV-82	6243	NE	10-DEC-71	17-NOV-95
5471	NE	12-MAY-67	04-DEC-81	6247	NE	19-FEB-93	
5476	NE	03-JUL-59	15-JUN-73	6248	NC	04-MAY-34	06-NOV-95
5510	NE	11-JAN-80		6249	NE	29-MAR-85	
5512	NC	18-DEC-87		6251	NE	18-JUL-86	05-APR-96
5533	NE	11-MAR-77		6258	NC	30-DEC-88	
5620	NE	21-JUN-91		6259	NC	23-FEB-90	
5621	NE	26-APR-91		6260	NC	06-JAN-89	
5622	NE	27-DEC-91		6263	NC	14-APR-89	
5623	NE	08-NOV-91		6264	NC	14-APR-89	
5624	NE	26-APR-91		6267	NC	09-JUL-65	28-AUG-81
5625	NE	10-JUL-92		6268	NE	15-JUN-62	
5626	NC	08-AUG-86		6269	NE	04-NOV-60	11-MAR-77
5628	NC	08-AUG-97		6270	NE	09-NOV-73	
5640	NC	22-APR-94		6271	NE	07-SEP-73	
5705	NE	13-MAY-83		6272	NE	14-SEP-73	
5706	NE	24-JUN-83		6273	NE	28-SEP-73	
5707	NE	28-JAN-83		6274	NE	07-SEP-73	
5720	NC	22-APR-94		6281	NE	29-JAN-82	25-MAR-88
5800	NE	19-JUL-74	22-MAR-91	6285	NC	03-JUN-88	
5801	NE	24-MAY-74		6286	NC	25-NOV-88	
5860	NE	30-SEP-66	14-MAY-76	6287	NC	11-JUN-82	
5861	NE	30-SEP-66	14-MAY-76	6301	NE	03-MAY-96	
6021	NE	23-MAY-86		6302	NE	20-APR-73	
6022	NE	23-MAY-86		6310	NE	04-MAY-73	17-FEB-78
6023	NE	26-FEB-88	30-JUN-95	6311	NC	17-AUG-62	
6026	NC	17-SEP-76		6321	NC	15-MAY-57	
6028	NC	15-JAN-71		6322	NC	15-MAY-57	

6341	NE	14-JAN-91		7051	NE	14-DEC-73	08-AUG-86
6354	NC	09-NOV-50		7052	NE	10-JUN-66	19-JUL-85
6355	NE	09-FEB-72		7053	NE	10-APR-70	08-APR-94
6356	NC	30-OCT-49		7065	NE	31-MAY-63	30-DEC-83
6357	NC	28-FEB-50	13-APR-73	7066	NE	21-JUN-63	30-AUG-85
6358	NE	18-MAY-49	28-JAN-72	7067	NE	30-APR-71	18-MAY-90
6359	NE	24-MAY-68		7071	NE	31-JUL-64	08-SEP-78
6360	NC	17-APR-48		7072	NE	30-APR-71	25-JUL-97
6368	NC	16-JUN-58	06-AUG-76	7082	NE	20-MAY-66	27-APR-84
6369	NE	24-MAY-85		7083	NE	15-JUN-84	
6370	NE	03-AUG-90		7103	NE	05-AUG-77	
6371	NE	01-MAR-74		7121	NE	17-NOV-72	06-OCT-89
6390	NE	08-FEB-80		7122	NE	19-OCT-62	06-SEP-85
6408	NE	13-FEB-87		7125	NE	20-APR-60	26-SEP-80
6409	NE	02-APR-93		7126	NE	08-MAR-54	13-AUG-93
6410	NE	17-APR-98		7127	NE	27-MAY-83	14-DEC-84
6411	NE	17-APR-98		7134	NC	23-JUL-93	
6412	NE	18-APR-97		7135	NE	07-MAR-58	14-DEC-79
6413	NE	17-FEB-89		7136	NC	23-JUL-93	
6414	NE	13-FEB-87		7150	NE	09-JUL-65	01-OCT-82
6415	NE	18-APR-97		7170	NE	18-APR-75	23-DEC-83
6416	NE	31-MAY-91		7171	NE	15-APR-60	08-SEP-78
6417	NE	18-APR-97		7180	NE	11-AUG-78	
6418	NE	01-APR-88		7181	NC	22-FEB-63	04-MAY-84
6419	NE	05-APR-96		7184	NC	10-JUL-64	16-DEC-77
6420	NE	18-APR-97		7185	NE	08-APR-60	27-APR-84
6421	NE	17-APR-98		7193	NC	10-MAY-63	10-MAR-78
6422	NE	17-APR-98		7194	NE	20-MAR-81	
6423	NE	17-APR-98		7195	NC	23-JUL-93	
6424	NE	17-APR-98		7212	NE	11-JAN-85	
6425	NE	17-APR-98		7220	NE	02-NOV-79	16-MAR-84
6426	NE	17-APR-98		7292	NC	30-JAN-62	27-SEP-85
6427	NE	17-APR-98		7302	NE	18-AUG-78	09-NOV-90
6428	NE	17-APR-98		7304	NC	17-FEB-78	06-SEP-85
6429	NE	17-JUN-94		7310	NC	11-JUL-86	
6430	NE	01-APR-88		7371	NE	14-DEC-73	27-MAR-81
6431	NE	01-APR-88		7404	NE	17-MAY-63	02-SEP-83
6432	NE	02-JUN-95		7405	NE	01-OCT-82	
6433	NE	02-MAR-84		7411	NE	13-APR-73	29-SEP-89
6434	NE	20-FEB-87		7430	NE	21-MAY-76	07-OCT-83
6435	NE	20-FEB-87		7465	NE	28-FEB-57	02-AUG-91
6436	NE	31-MAY-91		7481	NC	21-AUG-92	
6437	NE	02-MAR-84		7482	NC	21-AUG-92	
6438	NE	02-APR-93		7485	NC	17-MAR-89	
6439	NE	02-MAR-84		7486	NC	10-FEB-89	
6440	NE	02-MAR-84		7487	NC	10-JUL-87	
6441	NE	20-FEB-87		7488	NC	08-MAR-91	
6451	NE	17-JUN-94		7489	NC	28-AUG-92	
6452	NC	29-MAY-87		7502	NE	31-JUL-98	
6453	NC	29-MAY-87		7511	NE	29-DEC-89	
6454	NC	15-MAY-87		7512	NC	05-JUL-85	
6455	NC	15-MAY-87		7520	NC	01-JUN-84	
6455 SUPP	NE	01-JAN-89		7521	NC	01-JUN-84	
6505	NC	05-APR-85	28-FEB-86	7527	NE	12-APR-74	27-SEP-85
6506	NC	12-APR-85	21-FEB-86	7540	NC	07-JAN-83	
6730	NC	26-DEC-69	16-MAR-79	7552	NE	27-MAR-98	
7000	NC	05-MAR-82		7565	NC	04-OCT-96	
7010	NE	12-JAN-79	04-MAR-88	7566	NC	22-JUN-90	
L/C 7011	NE	02-SEP-83		7568	NC	05-JUL-85	
7050	NE	03-FEB-89		7569	NC	05-JUL-85	

7570	NC	02-MAY-86		L/C 8005	NE	07-DEC-84	02-MAY-97
7571	NC	11-APR-86		L/C 8006	NE	05-AUG-88	
7572	NC	02-MAY-86		L/C 8007	NE	19-AUG-88	
7575	NC	06-MAR-92		L/C 8010	NE	01-AUG-86	26-MAY-89
7578	NC	27-JAN-95		L/C 8011	NE	30-DEC-94	
7600	NC	26-JUL-85		L/C 8012	NE	04-NOV-94	
7608	NE	04-JUN-76	04-MAR-83	L/C 8013	NE	04-NOV-94	
7620	NC	02-MAY-97		L/C 8014	NE	18-NOV-94	
7621	NC	02-MAY-97		L/C 8015	NE	16-DEC-94	
7646	NE	02-FEB-73	28-NOV-80	L/C 8046	NE	07-OCT-83	
7661	NC	14-MAR-86		L/C 8047	NE	07-OCT-83	06-DEC-85
7662	NE	19-JUL-91					
7663	NE	11-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	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					
* 7784	NC	03-JUL-98					
7830	NE	02-MAR-84					
7832	NE	19-FEB-71	06-MAR-81				
7920	NE	27-APR-84	23-MAY-86				
7930	NE	18-MAY-84					
7935	NE	21-JUN-85					
7940	NE	27-APR-79	20-SEP-85				
7941	NC	05-JAN-73	14-MAR-86				
7950	NE	03-MAY-85					
7951	NE	24-FEB-84					
7952	NE	17-MAR-72	27-JUL-84				
7953	NE	05-APR-96					
7954	NC	17-MAY-74	17-JUN-83				
7980	NC	16-JAN-87					

(AMA8035-10-35)

(DFO-H98-004)

*** 1925 LIST OF CHARTS AFFECTED BY (T) AND (P) NOTICES IN EFFECT SEPTEMBER 25, 1998**

(Revised and promulgated quarterly)

(Reference: Notice 1346/98 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
3442	528(P)/98
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, 1510(P)/98, 1727(P)/98
7371	634(P)/96
7733	1510(P)/98
7740	847(P)/89
7760	1510(P)/98, 1727(P)/98

(AMA8035-10-1)

(CCG-H98-050)

***1924 SUMMARY OF TEMPORARY AND PRELIMINARY NOTICES IN EFFECT SEPTEMBER 25, 1998**

(Revised and promulgated quarterly)

Reference: Notice 1345/98 cancelled.

NOTICE	CHART	LOCALITY AND SUBJECT
---------------	--------------	-----------------------------

(1) MISCELLANEOUS

342(P)/97	- - - -	Canada - Loran-C lattices on nautical charts.
633(T)/97	- - - -	Canada - Safety of offshore exploration and exploitation vessels.

(2) CANADIAN ARCTIC AND WEST COAST OF GREENLAND

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	- - - -	Northwest Territories - Hay River - Lights and light buoys to be discontinued.
666(P)/96	- - - -	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.
328(P)/98	- - - -	Northwest Territories - Fort Chipewyan to Fort McMurray - Changes to the buoyage system - 1998.
1510(P)/98	7760, 7733, 7083	Northwest Territories - Simpson Strait - Rae Strait - Shoal depths.
1727(P)/98	7760, 7083	Northwest Territories - Boothia Peninsula - James Ross Strait - Shoal depths.

(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	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	3958, 3964	British Columbia - Prince Rupert Harbour - Current meters established temporarily.

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	3680, 3623, L/C 3604, L/C 3001, L/C 3000	Off Vancouver Island - Scientific subsurface mooring established temporarily.
303(T)/94	L/C 3604, L/C 3001, L/C 3000	Off Vancouver Island - Scientific subsurface mooring established temporarily.
733(T)/95	LC 3802	British Columbia - Dixon Entrance - Rose Spit - Racon temporarily relocated.
715(P)/96	- - - -	Pacific Ocean - Strait of Juan de Fuca - Fog signal, daybeacon and light to be discontinued.
814(P)/96	3682, 3663, 3662	Vancouver Island, West Coast - Approaches to Esperanza Inlet - Shoal depths.
96(P)/97	3682, 3623	Vancouver Island, West Coast - Kyuquot Sound - Entrance to Fair Harbour - Shoal 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	3662	Vancouver Island, West Coast - Approaches to Esperanza Inlet - Shoal depth.
693(P)/97	3728	British Columbia - Milbanke Sound - Bardswell Group - Results of survey.
694(P)/97	3711	British Columbia - Milbanke Sound - Bardswell Group - Wurtele Island - Results of survey.
695(P)/97	3787	British Columbia - Milbanke Sound - Bardswell Group - Results of survey.
528(P)/98	3442	British Columbia - Gulf Islands - Samuel Island - Off Ralph Grey Point - Chart amendment.

(AMA8035-10-1)

(CCG-H98-051)

***1943 NORTHWEST TERRITORIES - HAY RIVER – Aids to navigation.**

Reference: Notice 658(P)/96 cancelled.

(AMA8035-10-7-12)

(CCG-H98-054)

***1944 NORTHWEST TERRITORIES - SIMPSON STRAIT – Aids to navigation.**

Reference: Notice 222(P)/97 cancelled.

(AMA8035-10-5-18)

(CCG-H98-055)

***1945 NORTHWEST TERRITORIES - MCCLINTOCK BAY - Aids to navigation.**

Reference: Notice 223(P)/97 cancelled.

(AMA8035-10-5-18)

(CCG-H98-056)

***1946 NORTHWEST TERRITORIES - SPENCE BAY - Aids to navigation.**

Reference: Notice 233(P)/97 cancelled.

(AMA8035-10-5-18)

(CCG-H98-057)

***1922(T) CANADA - Safety of offshore exploration and exploitation vessels.**

Reference: Notice 633(T)/97 cancelled.

1998 Annual Edition of Notices to Mariners, No. 20, pages A20-1 to A20-4.

Mariners are advised that offshore exploration and exploitation vessels are conducting drilling operations in the following approximate positions:

Well name	Drilling Unit	Co-ordinates
-----------	---------------	--------------

Gulf of St. Lawrence

NIL

Mackenzie Delta

NIL

Beaufort Sea

NIL

Yukon

NIL

Arctic Islands

NIL

For information on Nova Scotia or Newfoundland Offshore activities, please contact: C-NSOPB (902)422-5588; C-NOPB (709)778-1400

NOTE: Mariners are advised to obtain up-to-date position reports on drilling vessels and production installations before entering an area of exploration or exploitation. This information is available by contacting, as appropriate, ECAREG CANADA, NORDREG CANADA or CVTS OFFSHORE via any Marine Communications and Traffic Services Centre (MCTS).

(AMA8035-10-17)

(NEB-H98-001)

***1941 CANADIAN HYDROGRAPHIC SERVICE - Canadian Tide and Current Tables - 1999.**

The Canadian Tide and Current Tables for 1999 have been published in six volumes.

Volume 1 Atlantic Coast and Bay of Fundy/Côte de l'Atlantique et Baie de Fundy

Volume 2 Gulf of St. Lawrence/Golfe du Saint-Laurent

Volume 3 St. Lawrence and Saguenay Rivers/Fleuve Saint-Laurent et Rivière Saguenay

Volume 4 Arctic and Hudson Bay/L'Arctique et le Baie d'Hudson

Volume 5 Juan de Fuca Strait and Strait of Georgia/Détroits de Juan de Fuca et de Georgia

Volume 6 Barkley Sound and Discovery Passage to Dixon Passage/Baie Barkley et Passage Discovery jusqu'à l'Entrée Dixon

Significant format changes are featured in this year issue:

1. Tide and Current predictions for 1999 are located NEAR THE FRONT OF EACH VOLUME.
2. Tide and Current predictions for the first three months of the year 2000 have been included and are located AT THE BACK OF EACH VOLUME.
3. A new Reference Current Station - Scott Channel, has been added to Volume 6.

(AMA8035-10-35)

***1942 CANADA - Swissair airplane crash - Warning.**

Joint Release

The investigative agencies responsible for the investigation into the crash of Swissair Flight wish the public to take notice of the following information.

1. Recovery efforts are continuing at the crash site and surrounding areas. Both the Transportation Safety Board and the Royal Canadian Mounted Police are working cooperatively to determine the cause of the crash and are supported by a number of agencies. There remains a recovery zone surrounding the crash site and

entering this area could result in charges against any violator under the Canadian Transportation Accident Investigation and Safety Board Act or the Criminal Code. The unauthorized taking of debris, or other articles from within the recovery zone could result in additional charges. The recovery or exclusion zone will continue until further notice but may be subject change.

For current information on the Recovery Zone, please contact the Regional Operations Center of the Canadian Coast Guard at (902) 426-6030 or 1-800-565-1633.

2. Thus far, the support of the public has been tremendous in assisting the investigators in the recovery of such items. However, some suggestion of a "finders keepers principle" has arisen. In this regard, take notice that the ownership of any debris, valuables and other articles has not be relinquished. The Canada Shipping Act provides that there is a duty upon every person to deliver material to the Receiver of Wreck, who is responsible for the return of such items to their lawful owner. The Receiver of Wreck has dispensed with this delivery requirement at this time on the condition that all materials be turned over to your local detachment of the Royal Canadian Mounted Police, in cases where this is not practical, your local Detachment of the RCMP should be advised of the location of the materials. In this way, any right to regard for the return of such items will be documented. Anyone who retains without legal authority any debris, valuables and other articles could be charged with an indictable offence under the Criminal Code or for an offence pursuant to the Canada Shipping Act. Most of the valuable are identifiable.
3. The debris, remains, and other articles could offer valuable information relating to the cause of the crash and as such may be material evidence. Therefore any unauthorized retention could also result in charges of obstruction pursuant to the Criminal Code.

Your assistance is solicited in reporting the finding of all remains, debris, and other articles to your local detachment of the Royal Canadian Mounted Police.

(AMA8035-10-1)

(CCG-H98-070)

CORRECTIONS TO RADIO AIDS TO MARINE NAVIGATION

***1930 CANADIAN COAST GUARD PUBLICATION - Amendment to the Radio Aids to Marine Navigation (Pacific) publication 1998.**

Amend page 2-57

Column 4

Under	Lawn Point range British Columbia 53 25 29.7 N 131 54 50.2 W
-------	--

Amend ... to read --
(L) (K)

(M2204-145)

(CCG-P98-015)

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

British Columbia, Volume 1, Fifteenth Edition, 1990 —

Page 157 — After paragraph 742

Add: 742.1 **Buoy**. — Cautionary buoy “P14” marks the west extremity of the shoal extending from Inskip Rock.

(P26/98)

Page 159 — Paragraph 790, line 10 – After “storage.”

Insert: Private **mooring buoys** are SE of the wharf.

(P26/98)

Page 172 — Paragraph 87, lines 1 and 2

Delete: “Nelson...”

(P26/98)

Page 172 — After paragraph 86

Add: 86.1 **Beacon**. — A port hand daybeacon with a radar reflector is 0.6 mile east of Tilbury range 2.

(P26/98)

Page 186 — Delete paragraph 91

Replace by: 91 **Buoy**. — South cardinal buoy “QT,” 0.2 mile south of Upwood Point, marks a rock that dries 4.6 m.

(P26/98)

Page 229 — Paragraph 394, line 2

Delete: and an emergency light

Page 259 — Paragraph 123, line 3

Delete: an emergency light and

Page 281 — Paragraph 280, line 1

Delete: Cautionary

Replace by: ODAS

Page 284 — Paragraph 323, lines 1 and 2

Delete: “YH” ... bifurcation”

Replace by: “Y44,” close SE of the rock, is a starboard hand

(P26/98)

Page 284 — Paragraph 335, line 1

Delete: “Sutton ... side,”

Replace by: Keep Sutton Rock light buoy to starboard,

(P26/98)

Small Craft Guide, British Columbia Volume 1, Seventh Edition, 1989 —

Replace by: hand buoy identified “Y44”

(P26/98)

SAILING DIRECTIONS AND SMALL CRAFT GUIDE CORRECTIONS

Page 56 — Paragraph 53, lines 1 and 2

Delete: "Sutton ... side,"

Replace by: Keep Sutton Rock light buoy to starboard,

(P26/98)

Page 178 — After paragraph 454

Add: 454.1 **Buoy.** — Cautionary buoy "P14" marks the west extremity of the shoal extending from Inskip Rock.

(P26/98)

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

Page 42 — Paragraph 213, lines 1 and 2

(P26/98)

Page 42 — After paragraph 212

Add: 212.1 **Beacon.** — A port hand daybeacon with a radar reflector is 0.6 mile east of Tilbury range 2.

(P26/98)

Page 106 — Delete paragraphs 94 and 95

Replace by: 94 **Buoy.** — South cardinal buoy "QT", 0.2 mile south of Upwood Point, marks a rock that dries 4.6 m.

(P26/98)

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

Pacific

134.2	Wickaninnish Bay ODAS light buoy	49 02 12 125 48 00	F(5) Y 20s	.....	.....	Yellow.	Year round. Chart:3603 Edn 10/98
553 G5628	Pulteney Point	On point, SW. end of Malcolm Island. 50 37 49.9 127 09 17.6	Fl R 10s	12.2	12	White square tower.	Flash every 10 s Visible from 278° through N. and E. Horns(2) - Blast 2s; sil. 3s; blast 2s; sil. 3s; blast 2s; sil. 48s Horns sound in unison. Delete Emergency light. Chart:3546 Edn 10/98
570 G5648	Scarlett Point	On the point, entrance to Christie Passage. 50 51 38 127 36 40	Fl W 5s	25.4	18	White cylindrical tower. 8.4	Flash 0.22 s; eclipse 4.78 s Year round. Operates at night only. Delete Emergency light. Horn - Blast 3s; sil. 27s Horn points 025°40'. Chart:3549 Edn 10/98
730 G5814	Green Island	On SW. side of island. 54 34 06 130 42 24	Fl W 5s	19.2	13	White tower. 10.7	Flash every 5 s Emergency light. Year round. Operates at night only. Horn - Blast 3s; sil. 27s Horn points 239°. Chart:3959 Edn 10/98
788 G5837.4	Lawn Point range	At point. 53 25 29.7 131 54 50.2	F W	11.6	.....	Square skeleton tower, fluorescent orange slatwork daymark, black vertical stripe.	Year round.
789 G5837.5	Racon - - (K) X & S Band	270° 157.5m from front.	F W	22.3	.....	Square skeleton tower, fluorescent orange saltwork daymark, black vertical stripe.	Year round. Chart:3890 1930/98

**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.