



Canada

Canada

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MARCH 26, 1999

WESTERN EDITION OF NOTICES TO MARINERS

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CANADIAN COAST GUARD

NOTICES

500 to 581

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Marine Navigation Services
Directorate
Marine Aids

RECYCLED PAPER

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

ADVISORY

NOTICES TO SHIPPING (WRITTEN AND BROADCAST)

The Canadian Coast Guard is implementing a number of changes to the aids to navigation system in Canada.

These changes are advertised as Notices to Shipping (Broadcast and Written) by the Canadian Coast Guard and are followed up with Notices to Mariners, then charts are updated by hand correction, reprints or new editions.

The publication of Notices to Mariners and chart revisions are being delayed by the volume of changes that are taking place.

Mariners are advised that all relevant Written Notices to Shipping should be kept until superseded by Notices to Mariners or through revised charts issued by the Canadian Hydrographic Service.

Written Notices to Shipping are published weekly and are available from local Canadian Coast Guard Offices.

The Canadian Hydrographic Service is reviewing the impact of these changes with the Canadian Coast Guard and together we are preparing an action plan on the issuing of chart revisions.

For further information contact your local Canadian Coast Guard office.

Newfoundland

St. John's MCTS Centre
Phone: (709) 772-2083
Fax: (709) 772-6285

Maritimes

Maritimes Regional Operations Centre
Toll Free in Maritimes 1-800-565-1633
Phone: (902) 426-6030
Fax: (902) 426-6334
<http://www.mar.dfo.mpo.gc.ca/cg/ops/roc.htm>
Website E-Mail: ROCWeb@mar.dfo-mpo.gc.ca

Laurentienne

GC\SO\COR
Notices to Shipping
Phone: (418) 648-5410
Fax: (418) 648-7244
E-Mail: OPSAVIS@dfo-mpo.gc.ca

Central & Arctic

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

Pacific

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

EXPLANATORY NOTES

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

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

Visibility of lights is that in clear weather.

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

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

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

Distances may be calculated as follows:

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

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

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

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

Monthly edition of Notices to Mariners - *Notices to Mariners* are issued free of charge on a monthly basis. Mariners now have a choice between specific *Regional* issue(s) they wish to receive. Requests to be placed on or removed from the mailing list should be made by using the form inserted on page 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 33 W	315	200
Richmond BC	304,305	907	49 11 N 123 07 W	320	200
Sandspit BC	306,307	906	53 14 N 131 49 W	300	200
Cardinal ON	308,309	919	44 47 N 75 25 W	306	200
Warton ON	310,311	918	44 45 N 81 07 W	286	200
St. Jean Richelieu QUÉ	312,313	929	45 19 N 73 19 W	296	200
Lauzon QUÉ	316,317	927	46 49 N 71 10 W	309	200
Rivière-du-Loup QUÉ	318,319	926	47 46 N 69 36 W	300	200
Moisie QUÉ	320,321	925	50 12 N 66 07 W	313	200

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.
Partridge Island NB	326,327	939	45 14 N 66 03 W	295	200
Pt. Escuminac NB	332,333	936	47 04 N 64 48 W	319	200
Western Head NS	334,335	935	43 59 N 64 39 W	312	200
Fox Island NS	336,337	934	45 20 N 61 05 W	307	200
Cape Race NFLD	338,339	940	46 46 N 53 11 W	315	200
Cape Ray NFLD	340,341	942	47 38 N 59 14 W	290	200
Cape Norman NFLD	342,343	944	51 30 N 55 49 W	310	200

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.

GPS "ROLLOVER" AUGUST 1999

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

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

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

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

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

User information / Renseignements sur l'utilisateur

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

Anomaly report / Rapport d'anomalie

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

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

Weather conditions / Conditions météo

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

Essential 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 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.

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) _____

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	536	6	3675	519	1			
3424	536	6	3676	519	1			
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***519 CANADIAN HYDROGRAPHIC SERVICE - Charts.**

CHART	TITLE & CONTENTS	SCALE	DATED	CAT #	PRICE
1. New Editions.					
	BRITISH COLUMBIA/COLOMBIE-BRITANNIQUE				
3675	NOOTKA SOUND	1:40 000	Nov. 20/98	2	\$20.00
	Limit(s): 49°30'36"N 126°16'00"W 49°46'48"N 126°16'00"W 49°46'48"N 126°52'30"W 49°30'36"N 126°52'30"W				
3676	ESPERANZA INLET	1:40 000	Nov. 20/98	2	20.00
	Limit(s): 49°43'18"N 126°35'00"W 49°59'30"N 126°35'00"W 49°59'30"N 127°11'30"W 49°43'18"N 127°11'30"W				
	and Inset: (1) Tahsis	1:12 000			
	Limit(s): 49°53'50"N 126°38'42"W 49°55'33"N 126°38'42"W 49°55'33"N 126°40'12"W 49°53'50"N 126°40'12"W				

2. New Edition.

	BRITISH COLUMBIA/COLOMBIE-BRITANNIQUE				
L/C 3512	Strait of Georgia – Central Portion/Partie Centrale	1:80 000	Dec. 25/98	2	20.00

3. Permanently withdrawn charts.

On Publication of Charts

3662	Nootka Sound to à Esperanza Inlet	3675, 3676
3663	Esperanza Inlet	3675, 3676
3664	Nootka Sound	3675, 3676
3665	Plans – Nootka Sound	3675, 3676

(AMA8035-10-35)

(DFO-H99-066)

***579 CANADIAN HYDROGRAPHIC SERVICE - Raster Electronic Navigation Charts.**

- Notes: (1) The following ENC products are only available from:
Nautical Data International Inc.
P.O. Box 127, Station C
St. John's, Newfoundland
A1C 5H5
Telephone: 1-800-563-0634 or 1-709-576-0634
Facsimile: 709-576-0636
- (2) For licencing information and rates please contact the distributor, Nautical Data International Inc. (NDI) at the above-mentioned address.

CHART	TITLE & CONTENTS	DATED	PRICE
1. New Charts.			
	Rainy Lake/Lac à La Pluie		
6106R/M	Northwest Bay to/à Ash Bay	June 21/91	(See Note 2)
6107R/M	Hostess Island to Devils Cascade	June 10/83	(See Note 2)
	Lake of the Woods/Lacdes Bois		
6201R/M	Lake of the Woods	Nov. 22/91	(See Note 2)
6206R/M	Seven Sisters Falls to/à Slave Falls	Oct. 06/95	(See Note 2)
6209R/M	Brereton Lake	Sept. 04/70	(See Note 2)
	Rainy Lake/Lac à La Pluie		
6247R/M	Wightman Point to/à Whiskey Jack Portage	Feb. 19/93	(See Note 2)
6285R/M	Eaglenest Lake to/à Whitedog Dam	June 03/88	(See Note 2)

(AMA8035-10-35)

(DFO-H99-065)

***521 CANADIAN HYDROGRAPHIC SERVICE CHARTS - List of hand-corrected charts for which lists of corrections are available.**

Previous Notice 501/98.

The following is a list of charts which are hand-corrected after their date of publication from information published in Notices to Mariners. A list of corrections is available for each of these charts upon requests. A list of corrections is available for each of these charts upon requests.

Chart	Édition	Chart	Édition	Chart	Édition	Chart	Édition
1310	1998	2053	1985	2218	1984	2291	1981
1338	1984	2054	1985	2221	1984	2292	1989
1339	1983	L/C 2058	1989	2222	1984	2293	1975
1409	1997	2059	1998	2223	1984	2294	1989
1410	1987	L/C 2060	1985	2225	1991	2297	1975
1411	1984	2061	Cancelled	2226	1991	2298	1975
1412	1984	L/C 2064	1989	L/C 2228	1990	2299 (2252)	1983
1413	1987	2067	1985	2235	1987	L/C 2300	1998

1414	1984	2069	1983	2239	1985	L/C 2301	1991
1434	1996	2070	1983	L/C 2243	1985	L/C 2302	1985
1435	1995	L/C 2077	1995	L/C 2244	1987	2303	1971
1436	1993	2085	1990	L/C 2245	1986	2304	1973
1437	1993	L/C 2100	1987	2250	1986	2305	1971
1438	1995	L/C 2110	1998	2251	1986	2306	1975
1439	1991	L/C 2120	1998	2257	1984	2307	1972
L/C 2000	1998	L/C 2121	1987	2258	1989	2308	1973
2006	1987	L/C 2122	1991	2259	1974	L/C 2309	1988
2007	1982	L/C 2123	1993	2268	1989	2310	1972
2017	1990	2165	1991	2273	1975	2311	1972
2018	1990	2181	1989	2274	1990	2312	1987
2042	1994	L/C 2200	1987	2282	1988	2313	1971
2043	1973	L/C 2201	1998	L/C 2284	1989	2314	1986
2049	1985	2213	1995	2286	1983	2315	1988
2050	1985	2215	1994	2289	1987	2318	1982

Copies of Notices to Mariners are available for the above charts back to the edition indicated. They may be obtained by writing to Nautical Information, Canadian Hydrographic Service, Department of Fisheries and Oceans, Ottawa, Ontario, K1A 0E6. Please state the latest edition date of chart.

(AMA8035-10-35)

(DFO-H99-044)

*522 CANADIAN HYDROGRAPHIC SERVICE CHARTS - List of charts not hand-corrected.

Previous Notice 502/98.

The following is a list of charts which are not hand-corrected after their date of publication. A list of corrections is available for each of these charts upon request.

1350	2028	3056	6038	6217	6281	6408	6431
1351	2029	3057	6050	6218	6285	6409	6432
1361	2044	3058	6100	6240	6286	6410	6433
1400	2048	3061	6101	6241	6287	6411	6434
1509	2055	3062	6105	6242	6301	6412	6435
1510	2086	3080	6106	6243	6302	6413	6436
1512	2140	3311	6107	6247	6310	6414	6437
1513	2202	3312	6108	6248	6311	6415	6438
1514	2203	3313	6109	6249	6321	6416	6439
1515	2204	3488	6110	6251	6322	6417	6440
1550	2205	3489	6111	6258	6341	6418	6441
1551	2206	4141	6112	6259	6354	6419	6445
1552	2212	4142	6201	6260	6355	6420	6451
1553	2214	4145	6205	6263	6356	6421	6452
1554	2260	6021	6206	6264	6357	6422	6453
1555	2261	6022	6207	6267	6358	6423	6454
2011	2266	6023	6209	6268	6359	6424	6455
2021	2267	6026	6211	6269	6360	6425	6505
2022	2400	6028	6212	6270	6368	6426	6506
2023	3050	6030	6213	6271	6369	6427	6730
2024	3052	6035	6214	6272	6370	6428	C-4
2025	3053	6036	6215	6273	6371	6429	
2026	3055	6037	6216	6274	6390	6430	

Notices to Mariners for the correction of these charts will still be issued and mariners should continue to correct their own charts.

New printings of these charts are published periodically to bring the charts up-to-date from the latest available information.

Copies of Notices to Mariners for charts that are not hand-corrected may be obtained by writing to Nautical Information, Canadian Hydrographic Service, Department of Fisheries and Oceans, Ottawa, Ontario, K1A 0E6. Please state the latest edition date of chart.

(AMA8035-10-35)

(DFO-H99-045)

***578 CANADA - Amendments to Vessel Traffic Services Zones Regulatory Specifications - TP 8771.**

Effective: April 1, 1999

Table 1

Item 17: Column 1: Delete "Vancouver Traffic" and replace with "Victoria Traffic".

Item 18: Column 1: Delete "Vancouver Traffic" and replace with "Victoria Traffic".

(AMA8035-10-1)

(CCG-H99-042)

***580 CANADA - Amendments to Vessel Traffic Services Zones Regulatory Specifications - TP8771.**

Effective: January 1, 1999

1. Table 2

Item 7: Column 4: Delete and replace with "47°03'21".1 N 54°20'17".9 W

Item 15: Delete

(AMA8035-10-1)

(CCG-H99-043)

***577(P) MANITOBA - LAKE WINNIPEG - RED RIVER - Maintenance dredging.**

The Canadian Coast Guard is terminating its maintenance dredging on the Red River and Lake Winnipeg at the end of the 1999 season. Please direct responses or questions to: PauHerage, Canadian Coast Guard, Telephone (519)383-1874 or Fax (519)383-1994.

(AMA8035-10-15)

(CCG-C99-001)

***505 BRITISH COLUMBIA - VANCOUVER HARBOUR – POINT ATKINSON – Fog signals.**

Charts (Last correction) – 3493(NAD 83)(1-3)(1730/98) – 3481(NAD 27)(4)(316/99) – 3526
(NAD83)(5)(1528/98) – LC 3463(NAD 83)(5)(336/99) – LC 3512(NAD 27)(4)(316/99) –
Howe Sound)(NAD 83)(2,3,6,7)

1. Delete	Fog Sig (3) 60s	49°18'03".2 N 123°07'01".2 W (approx.)
2.	Fog Sig	49 17 54.4 N 123 06 38.4 W (approx.)
3.	Fog Sig	49 18 45.2 N 123 07 39.6 W (approx.)
4.	Fog Sig (3) 60s	49 19 50 N 123 15 48 W (approx.)
5.	Fog Sig (3) 60 s	49 19 49 N 123 15 53 W (approx.)
6.	Fog Sig	49 19 49 N 123 15 53 W (approx.)
7.	Fog Sig	49 18 03 N 123 07 01 W (approx.)

NOTE: Digital data products 3463R/M, 3481R/M, 3493R/M, 3512R/M, 3526R/M, 70004(3526),
70072(3481), 70073(3493), 70142(3512) and 70145(3463) may also be affected.
Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers
(VAR) for updates.

(AMA8035-10-21)

(CCG-P99-001-004)(DFO-P99-003)

***536 BRITISH COLUMBIA - JUAN DE FUCA STRAIT - TRIAL ISLANDS - Fog signal.**

Charts (Last correction) - 3424(NAD 83)(1)(573/97) - LC 3461(NAD 27)(2)(2162/98) - LC 3462(NAD 83)
(1)(New Edn., Oct./98) - 3313(Sheet 4)(NAD 83)(1)

1. Delete	Fog Sig (2) 60s	48°23'42".3 N 123°18'18".6 W (approx.)
2.	Fog Sig (2) 60s	48 23 43 N 123 18 14 W (approx.)

NOTE: Digital data products 3424R/M, 3461R/M, 3462R/M, 70141(3461), 70150(3462) and
70214(3424) may also be affected. Contact Nautical Data International Inc. (NDI) or
your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21)

(CCG-P99-019, DFO-P99-012)

***516 BRITISH COLUMBIA - STRAIT OF GEORGIA - MERRY ISLAND, ENTRANCE ISLAND,
CHROME ISLAND, BALLENAS ISLAND, SISTERS ISLAND - Fog signals.**

Charts (Last correction) - 3535(Plan, Welcome Passage)(NAD 27)(1)(289/93) - 3311(Sheet 3)
(Compartment
E-G)(Howe Sound to à Pender Harbour)(NAD 83)(2) - LC 3513(NAD 27)(3,6)(1313/98) - 3458(NAD
83)(4)(2118/98) - 3443(NAD 83)(4)(336/99) - LC 3463 (NAD 83)(4)(505/99) –
3313(Sheet 20)(NAD 83)(4) - 3527(NAD 27)(5)(1313/98)

1. Delete	Fog Sig (3) 60 s	49°28'03".5 N 123°54'39" W (approx.)
2.	Fog Sig	49 28 04 N 123 54 44 W (approx.)

- | | | |
|-----------|------------------|--------------------------------------|
| 3. | Fog Sig (3) 60 s | 49 29 12 N 124 26 00 W (approx.) |
| 4. | Fog Sig (2) 60 s | 49 12 33.1 N 123 48 29.3 W (approx.) |
| 5. Delete | Fog Sig (2) 60 s | 49°28'20" N 123°40'57".7 W (approx.) |
| 6. | Fog Sig (2) 60 s | 49 28 20.5 N 123 40 57 W (approx.) |

NOTE: Digital data products 3443R/M, 3458R/M, 3463R/M, 3513R/M, 3527R/M, 3535R/M, 70016(3513), 70070(3443), 70089(3458), 70145(3463) and 70218(3527) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21)

(CCG-P99-010-012,015,016, DFO-P98-009)

***556(P) BRITISH COLUMBIA - NANAIMO HARBOUR - NEWCASTLE ISLAND PASSAGE - Caution Note.**

Chart (Which will be affected) - 3457(NAD 83)(1)

- | | | |
|--------|--|---------------------------------------|
| 1. Add | Note
Caution
Mariners are advised that numerous float changes have occurred in Newcastle Island Passage. | 49°11'00" N 123°57'00" W
(approx.) |
|--------|--|---------------------------------------|

NOTE: (1) These changes are being incorporated in a new chart currently in production.
(2) Digital data products 3457R/M and 70085(3457) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-P99-017)

***574 BRITISH COLUMBIA - KNIGHT INLET - VILLAGE ISLAND - Drying rock.**

Charts (Last correction) - 3545(NAD 83)(1,2)(709/98) - 3546(NAD 83)(1,2)(523/99) - 3515(NAD 83)(3,4)(504/94)

- | | | |
|-----------|---|----------------------------|
| 1. Delete | rock which covers and uncovers with a drying height of 2metres 1 decimetre | 50°37'55" N 126°33'52" W |
| 2. Add | rock which covers and uncovers with a drying height of 2 metres 1 decimetre | 50 37 56.4 N 126 33 45.3 W |
| 3. Delete | rock which covers and uncovers | 50 37 55 N 126 33 52 W |
| 4. Add | rock which covers and uncovers | 50 37 56.4 N 126 33 45.3 W |

NOTE: Digital data products 3515R/M, 3545R/M, 3546R/M, 70024(3545), 70025(3546) and 70257(3515) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-P99-018)

***523 BRITISH COLUMBIA - QUEEN CHARLOTTE STRAIT - HADDINGTON PASSAGE – HADDINGTON REEFS - Fog signal.**

Chart (Last correction) - 3546(NAD 83)(1)(302/98)

1. Delete	Fog Sig	50°36'27".5 N 127°00'37".5 W (approx.)
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NOTE: Digital data products 3546R/M and 70025(3546) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21)

(CCG-P99-018, DFO-P99-011)

***559 BRITISH COLUMBIA - DEAN CHANNEL - NASCALL BAY - Depth.**

Charts (Last correction) - 3729(NAD 83)(1)(NewEdn., March/98) - 3730(NAD 27)(2)(456/91)

1. Add	rock which covers and uncovers with a drying height of 2 feet and legend Rep (1999)	52°29'46".8 N 127°16'00" W
2.	rock which covers and uncovers with a drying height of 2 feet and legend Rep (1999)	52 29 47.3 N 127 15 51.7 W

NOTE: Digital data products 3729R/M and 3730R/M may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-P99-015)

***525 BRITISH COLUMBIA - QUEEN CHARLOTTE STRAIT - PINE ISLAND, SCARLETT POINT, NAHWITTI POINT - Fog signals.**

Charts (Last correction) - 3549(NAD 83)(1,4,5)(329/97) - 3550(NAD 83)(1)(329/97) - 3598(NAD 27)(2,6)(329/97) - LC 3605(NAD 83)(1,5)(NewEdn., March/98) - LC 3744(NAD 27)(3,7)(507/99) – LC 3001(NAD 27)(3,7)(331/99) - LC 3002(NAD 27)(3,7)(507/99)

1. Delete	Fog Sig (2) 60s	50°58'32" N 127°43'40".5 W (approx.)
2.	Fog Sig (2) 60s	50 58 33 N 127 43 36 W (approx.)
3.	Fog Sig	50 58 33 N 127 43 36 W (approx.)
4.	Fog Sig 30s	50 51 37.7 N 127 36 44.5 W (approx.)
5.	Fog Sig 30s	50 54 17.6 N 127 59 07.3 W (approx.)

- | | | |
|----|-------------|------------------------------------|
| 6. | Fog Sig 30s | 50 54 18.2 N 127 59 01 W (approx.) |
| 7. | Fog Sig | 50 54 18 N 127 59 01 W (approx.) |

NOTE: Digital data products 3001R/M, 3002R/M, 3549R/M, 3550R/M, 3598R/M, 3605R/M, 3744R/M, 70034(3549), 70036(3550), 70084(3744) and 70165(3605) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-21)

(CCG-P99-013,014,017, DFO-P99-010)

***537 BRITISH COLUMBIA - FITZ HUGH SOUND - PIERCE BAY - Drying rock.**

Chart (Last correction) - 3934(NAD 83)(1)(274/97)

- | | | |
|--------|---|--------------------------|
| 1. Add | rock with covers and uncovers with a drying height of 1 metre
5 decimetres and legend Rep (1998) | 51°31'47" N 127°45'40" W |
|--------|---|--------------------------|

NOTE: Digital data products 3934R/M and 70131(3934) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-P99-013)

***558 BRITISH COLUMBIA - DENNY ISLAND - GUNBOAT PASSAGE - Submarines cables.**

Charts (Last correction) - 3720(Plan, Gunboat Passage)(NAD 27)(1-4)(507/98) - 3785(NAD 27)(1,4)(946/98)

- | | | | |
|-----------|-----------------|------------|--|
| 1. Add | submarine cable | from
to | 52°09'38".6 N 127°56'43".5 W
52 09 44.2 N 127 56 40.6 W |
| 2. | cable sign | | 52 09 38.3 N 127 56 43.7 W |
| 3. | cable sign | | 52 09 44.5 N 127 56 40.4 W |
| 4. Delete | submarine cable | from
to | 52 09 37.1 N 127 56 35 W
52 09 43.9 N 127 56 35 W |

NOTE: Digital data products 3720R/M, 3785R/M, 70059(3785) and 70120(3720) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-P99-016)

***538 BRITISH COLUMBIA - QUEEN CHARLOTTE SOUND - Buoy.**

Charts (Last correction) - LC 3744(NAD 27)(1)(525/99) - LC 3002(NAD 27)(1)(525/99)

- | | | | |
|---------------|-----------------------|------------|--|
| 1. Reposition | ODAS light buoy 46204 | from
to | 51°22'30" N 128°44'42" W
51 23 00 N 128 44 17.4 W |
|---------------|-----------------------|------------|--|

NOTE: Digital data products 3002R/M, 3744R/M and 70084(3744) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-16)

(CCG-P99-008, DFO-P99-008)

***507 BRITISH COLUMBIA - HECATE STRAIT, SOUTHERN PORTION - Buoy.**

Charts (Last correction) - 3726(NAD 27)(1)(509/96) - LC 3902(NAD 27)(1)(2117/98) - LC 3744 (NAD 27)(1)(609/97) - LC 3002(NAD 27)(1)(617/97) - LC 3000(NAD 27)(1)(617/97)

1. Reposition	ODAS light buoy 46185	from	52°25'12" N 129°48'00" W
		to	52 24 24 N 129 47 00 W

NOTE: Digital data products 3000R/M, 3002R/M, 3726R/M, 3744R/M, 3902R/M, 70064(3902) and 70084(3744) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-5-16)

(CCG-P99-009)(DFO-P99-007)

***557 BRITISH COLUMBIA - QUEEN CHARLOTTE ISLANDS - POWRIVCO BAY - Depth.**

Charts (Last correction) - 3807(NAD 27)(1)(2117/98) - LC 3853(NAD 27)(1)(2117/98)

1. Replace	3 fathoms 4 feet with a rock which covers and uncovers and legend Rep (1999)	52°42'22".2 N 131°33'15".5 W
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NOTE: Digital data products 3807R/M, 3853R/M and 70077(3853) may also be affected. Contact Nautical Data International Inc. (NDI) or your local Value Added Remarketers (VAR) for updates.

(AMA8035-10-35)

(DFO-P99-014)

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

PACIFIC

212 G5328	Trial Islands	On S. side of southernmost island. 48 23 42.5 123 18 18.5	FI	G	5s	28.3	15	White cylindrical tower. 10.2	Flash every 5 s Year round.	Chart:3424 536/99
386 G5426	Point Atkinson	N. point of entrance to Burrard Inlet. 49 19 50 123 15 48	FI(2)	W	5s	32.9	20	White hexagonal tower, with 6 buttresses. 12.6	Flash 0.25 s; eclipse 0.75 s; flash 0.25 s; eclipse 3.75 s Emergency light. Year round.	Chart:3481 505/99
395	Calamity Point	49 18 45.5 123 07 35	FI	W	4s	5.8	8	White cylindrical tower, green band at top on 16- pile dolphin.	Year round.	Chart:3493 505/99
402 G5447	Brockton Point Sector	On extremity of point, inside First Narrows. 49 18 04 123 06 57	Q	WR	1s	12.2	11	White square tower, red band, marked "Speed Limit 5 KTS. Coal Harbour". 9.2	Red over Burnaby Shoal, from 289° Year round.	Chart:3493 505/99
403 G5448	Burnaby Shoal	On shoal. 49 17 55 123 06 34	Q	R	1s	9.4	6	White cylindrical tower, red band at top.	Radar reflector. Year round.	Chart:3493 505/99
435 G5488	Entrance Island	On island, northern approach to Nanaimo. 49 12 33.7 123 48 24.6	F FI	W W	 5s	18.6	15	White cylindrical tower. 10.7	Flash 0.14 s; eclipse 4.86 s High intensity flash superimposed every 5 s Emergency light. Year round.	Chart:3458 516/99
449 G5510	Merry Island	SE. extremity of island, SE. entrance to Welcome Passage. 49 28 03.5 123 54 40	F FI	W W	 15s	18.3	16	White square tower. 8.2	Flash 0.4 s; eclipse 14.6 s High intensity flash superimposed every 15 s Emergency light. Year round.	Chart:3535 516/99

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

490 G5508	Ballenas Islands	On N. point of North Ballenas Island. 49 21 02 124 09 32	F W Fl W 10s	21.3	17	White tower. 8.2	Flash 0.5 s; eclipse 9.5 s High intensity flash superimposed every 10s. Visible from 040° through E., S. and Emergency light. Year round.	Chart:3512 516/99	
493 G5529	Sisters Islets	On easterly and largest rock. 49 29 13 124 26 00	Fl(2) W	15s	21.3	21	White cylindrical tower. Emergency light. Year round.	Chart:3513 516/99	
495 G5532	Chrome (Yellow) Island range	49 28 21 124 41 02	F Y	14.0	.....	White mast, red daymark, white vertical stripe.	Visible in line of range. Year round.	Chart:3527 516/99	
496 G5532.1		097°45' 93.3m from front.	Fl Y 5s Fl W 5s	22.0 .....	.....	White cylindrical tower. 7.6	Flash 0.22 s; eclipse 4.78 s High intensity white flash (0.22) superimposed every 5 s Yellow light is visible in line of range. Emergency light. Year round.		
550.2 G5624	Haddington Reefs Pier	50 36 27.5 127 00 37.5	Fl R	2s	9.1	8	White cylindrical tower, red band at top.	Flash 0.06 s; eclipse 1.94 s Year round.	Chart:3546 523/99
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.	Chart:3549 525/99
574 G5642	Nahwitti Point	On SW. side of Hope Island. 50 54 18.5 127 59 01.7	Fl W	2s	15.3	13	White cylindrical tower. 6.7	Radar reflector. Year round.	Chart:3549 525/99

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

PACIFIC (cont'd)

576 G5649	Pine Island	On SW. point of island. 50 58 33 127 43 35.1	F W Fl R 10s	26.1	19	White square skeleton tower. 9.7	High intensity red flash (0.15 s) superimposed every 10s. Year round. Emergency light.	Chart:3549 525/99
582.5	Sea Otter West ODAS light buoy 46204	51 23 00 128 44 17.4	Fl(5) Y 20s	.....	.....	Yellow, marked "46204".	Year round.	Chart:3744 538/99
621.5	Hecate Strait South ODAS light buoy 46185	52 24 24 129 47 00	Fl(5) Y 20s	.....	.....	Yellow, marked "46185".	Year round.	Chart:3726 507/99

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

Navigating Officer or Observer _____ Captain: _____

Ship (or address) _____

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

General locality: _____

Subject: _____

Approx. position: _____ Lat. _____ Long. _____

Chart No. used to plot: _____ (Corrected to N/N No. _____ of 19 _____)

Publications affected: (Quote Volume and page) _____

* Full details (Attach additional sheets as necessary)

Time (UTQ) _____ Date _____

INSTRUCTIONS:

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

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

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

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

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

OR

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

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