Fisheries and Oceans Canada
Pêches et Océans Canada

VOL. 25, MONTHLY EDITION NO. 10
OCTOBER 27, 2000

Publication Number 1735950

NOTICES TO MARINERS

WESTERN EDITION

Published monthly by the

CANADIAN COAST GUARD

CONTENTS

Marine Programs Directorate
Aids to Navigation

Canada

Internet: http://www.notmar.com

EXPLANATORY NOTES

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

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

Visibility of lights is that in clear weather.

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

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

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

Distances may be calculated as follows:

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

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

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

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

Monthly edition of Notices to Mariners - *Notices to Mariners* are issued free of charge on a monthly basis. Mariners now have a choice between specific *Regional* issue(s) they wish to receive. Requests to be placed on or removed from the mailing list should be made by using the form inserted on page *xiii* of each monthly edition. Notification of changes to the mailing addresses, regional issues and/or number of copies required should also be transmitted by means of this form.

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

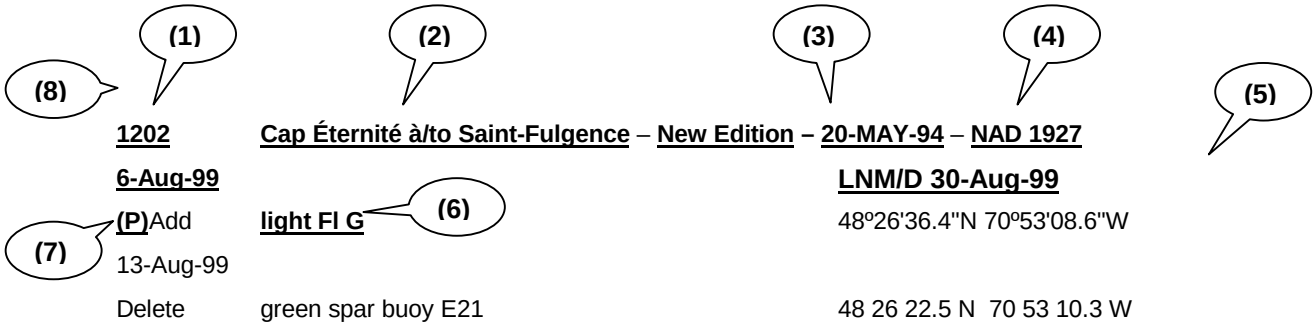
NOTE: Cette publication est aussi disponible en français.

NEWSLETTER
NOTICE TO USERS

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

CHART CORRECTIONS – SECTION II

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



1-Chart Number
2-Chart Title
3-Chart's latest New Edition date
4-Chart Datum
5- Last Correction
6-Chart action
7-Notice type
8- Weekly chart correction date

The last correction number is identified with the **LNM/D** or **L**ast **N**otice to **M**ariners Number ***/ D***ate. This number is expressed in either old notice number format (ex.: 594/99) or in day-month-year format which is the date known as the weekly chart correction date shown in the above diagram as item (8).

UPCOMING NEW FEATURES

Activity Reports

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

Paper Mailing List

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

Notices to Mariner Internet Site - notmar.com

Publications

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

Chart User Profile

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

Weekly Posting of Chart Corrections

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

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

ADVISORY

NOTICES TO SHIPPING (WRITTEN AND BROADCAST)

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

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

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

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

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

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

For further information contact your local Canadian Coast Guard office.

Newfoundland

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

Maritimes

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

Laurentian

Laurentian Regional Operations Centre GC\SO\COR
Operational Information Officer
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

DGPS FULLY OPERATIONAL SERVICE

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

FOS 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.

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

Table of DGPS Reference Stations in Canada

Station Name	Id. Nos of reference stations	DGPS Station ID	Geog. Position		Frequency [khz]	Bit/s
			Latitude	Longitude		
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	288	200
Cape Norman, NFLD	342,343	944	51 30 N	55 49 W	310	200
Rigolet, NFLD	344,345	946	54 15 N	58 30 W	299	200
Partridge Island, NB	326,327	939	45 14 N	66 03 W	295	200
Pt. Escuminiac, NB	332,333	936	47 04 N	64 48 W	319	200
Fox Island, NS	336,337	934	45 20 N	61 05 W	307	200
Western Head, NS	334,335	935	43 59 N	64 40 W	312	200
Hartlen Point, NS	330, 331	937	44 35 N	63 27 W	298	200
St.-Jean-sur-Richelieu, QC	312,313	929	45 19 N	73 19 W	296	200
Lauzon, QC	316,317	927	46 49 N	71 10 W	309	200
Rivière-du-Loup, QC	318,319	926	47 46 N	69 36 W	300	200
Moisie, QC	320,321	925	50 12 N	66 07 W	313	200
Trois-Rivières, QC	314, 315	928	46 23 N	72 27 W	321	200
Wiarton, ON	310,311	918	44 45 N	81 07 W	286	200
Cardinal, ON	308,309	919	44 47 N	75 25 W	306	200
Alert Bay, BC	300,301	909	50 35 N	126 55 W	309	200
Amphritrite Pt., BC	302,303	908	48 55 N	125 33 W	315	200
Richmond, BC	304,305	907	49 11 N	123 07 W	320	200
Sandspit, BC	306,307	906	53 14 N	131 49 W	300	200

DGPS RECEIVER - WARNING

The Canadian Coast Guard's Differential Global Positioning System (DGPS) broadcast contains built in health information designed to alert a DGPS user receiver of an out of tolerance or fault condition. During testing, it was found that some user DGPS receivers did not process the health information properly. Improper processing by a user equipment can result in incorrect positions.

Please contact your DGPS manufacturer or supplier to ensure that your receiver is capable of processing the DGPS Reference Station Health information correctly.

DGPS USER ALERT

The Canadian Coast Guard received reports in March 97 of DGPS receivers apparently ignoring the broadcast alarm which should signal the immediate discontinuation of a particular satellite correction. Reports indicate that some user equipment does not properly recognize this “do-not-use” correction flag and as a result erroneously processes it as a correction. This can result in position errors as large as 15 kilometers while the receiver is in DGPS mode. DGPS users are advised that they should contact the manufacturer of their equipment immediately to determine if they require a receiver upgrade.

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

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

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

User informations / Renseignements sur l'usager

Vessel name / Nom du navire:_____ Destination:_____

Vessel position at the beginning of the anomaly /
Position du navire au début de l'anomalie :_____

Vessel position at the end of the anomaly /
Position du navire à la fin de l'anomalie :_____

Anomaly report / Rapport d'anomalie

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

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

DGPS site using / Station DGPS utilisée: Freq.: _____kHz SS:_____dB SNR:_____dB

DOP Geometry / Géométrie DOP :_____

User receiver operates correctly with other DGPS sites? /
Votre équipement DGPS fonctionne-t-il normalement à l'utilisation d'autres stations DGPS?: Yes/ Oui __No / Non__

Comments / Commentaires: _____

_____

_____

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

Phone / Téléphone :_____

Weather conditions / Conditions météo

Winds / Vents : Direction:_____ Speed / Vitessse:_____KTS

Temp. ^{o}C:_____ VIS:_____N.M.

Sea State / État de la mer :_____

Bearing and range to electrical storm /
Direction et distance de l'orage :_____

Time of the storm / Heure de l'orage:_____UTC

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

User equipment informations / Renseignements sur l'équipement

GPS receiver / Récepteur GPS: Make / Fabriquant:_____ Model:_____

DGPS beacon receiver / Démodulateur DGPS: Make / Fabriquant :_____ Model:_____

Gyro interface with GPS / Gyro intégré avec le GPS? Yes / Oui :_____ No / Non :_____

DGPS interfaced with an ECDIS / DGPS intégré dans un SVCEI? Yes / Oui:_____ No / Non :_____

If yes, please fill below / Si oui, S.V.P. compléter ci-dessous:

ECDIS / SVCEI: Make / Fabriquant:_____ Model:_____

Radar image interfaced / Image radar intégrée?: Yes / Oui:_____ No / Non:_____

Gyro interfaced with ECDIS / Gyro intégré avec SVCEI? Yes / Oui:_____ No / Non:_____

Permanent installation or in evaluation / Installation permanente ou en évaluation :_____

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

1) Fax / Par télécopieur : 613-998-8428 attention Aids to Navigation

2) Mail / Par la poste:

Director, Navigation Systems Branch
Department of Fisheries and Oceans
200 Kent Street, Station 5130
Ottawa, ON
K1A 0E6

Directeur, Direction des systèmes à la navigation maritimes
Ministère des Pêches et Océans
200, rue Kent, 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.

1. 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.

2. 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

Marine Aids to Naviation Program 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
Canadian Coast Guard
Department of Fisheries & Oceans
201 Front Street North, Suite 703
Sarnia, ON
N7T 8B1

Telephone (519) 383-1859 or (519) 383-1861
Facsimile (519) 383-1989

GREAT LAKES - Water levels.

The Canadian Coast Guard is reviewing the various Aids to Navigation systems to develop contingency plans should water levels in Lake Superior, Lake Huron and Georgian Bay significantly drop below chart datum.

Changes to the Aids to Navigation in both small craft and commercial channels may be necessary. The changes may incorporate one or more of the following.

- Temporary repositioning of buoys
- Temporary addition of buoys
- Temporary removal of ranges
- Temporary narrowing of channels
- Temporary re-routing of channels and removal of buoys

Necessary changes to the Aids to Navigation will take place at or as near to the opening of the 2000 navigation season as possible.

Areas of concern currently identified in the small craft channels between Port Severn, Little Current and the North Channel are:

1) Potato Island Channel
2) Quarry Island
3) Big Dog Channel
4) Big David Bay Range Line
5) Starvation Bay
6) Seven Mile Narrows
7) Shebeshekong Channel
8) Shoal Narrows
9) Hangdog
10) Norgate
11) Cunninghams Channel
12) Rogers Cut
13) Parting channel
14) Beaverstone Bay
15) Lansdowne Channel

Specific sites and details of the changes will be broadcast as they are reviewed and identified. Depending on the priority some changes may be made with limited advance notice.
All changes will be broadcast through Notices to Shipping.
Temporary placement of signage in areas of concern may be considered.

Mariners are invited to voice any concerns through their nearest Coast Guard Radio Station or directly to:

Randy Childerhose or Mike Phillips - Parry Sound - (705) 746-2196
Steve Lear or Chuck Lemaire - Prescott - (613) 925-2865
Al Dion - Regional Superintendent - Sarnia - (519) 383-1859

MONTHLY EDITION OF NOTICES TO MARINERS

MAILING LIST CHANGES

Superintendent, Information and Publications
Navigation Aids
Navigation Systems Branch
Canadian Coast Guard
Department of Fisheries and Oceans
Ottawa, ON
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

INDEX

NUMERICAL INDEX OF CANADIAN CHARTS AFFECTED

Chart No.	Page	Chart No.	Page	Chart No.	Page
L/C 3461	2				
3548	3				
3549	3				
L/C 3604	3				
L/C 3606	3				
3623	6				
3683	6				
3935	6				
7067	6				
7083	6				
7122	6				
7127	6				
7485	7				
7570	7				
7575	7				
7760	7				
7784	7				
7950	7				
7951	7				

Nautical Data International, Inc.

1 Military Road, P.O. Box 127
St. John's, NF
Canada A1C 5H5
Telephone: (709)576-0634
Facsimile: (709)576-0636
Website: www.ndi.nf.ca

NDI Digital Ocean™ Questionnaire

Dear Mariner,

The questionnaire below is an effort to listen to and better serve two groups of mariners - those who already use electronic charts that are officially released by the Canadian Hydrographic Service, and those who may choose to use a digital ocean™ product in the future. The data collected from you will be used only for NDI's customer service purposes and will not be distributed.

Please take a few moments to complete this questionnaire (available online at www.ndi.nf.ca) and send it to NDI **on or before November 15, 2000**.

Thank you,
Glenn Butt
Marketing, Sales and Distribution Manager

Name: _____

Address: _____

Telephone: _____ E-mail address: _____

_____

1. Do you presently own a digital ocean™ product?
   - € Yes
   - € No

2. If yes, what is the product number?

   _____

3. Have you ever updated your digital ocean™ product?
   - € Yes
   - € No
   - € Not applicable

4. How likely is it that you would purchase an updated digital ocean™ product annually if offered a discounted price?
   - € Very likely
   - € Somewhat likely
   - € Not at all

5. How would you prefer to purchase or update a digital ocean™ CD?
   - € NDI direct
   - € NDI Dealer
   - € NDI E-Commerce site
   - € Other _____

6. If you are a current user, what changes or additions would you like to see made to the digital ocean™ CD's?

   _____

   _____

   _____

   _____

7. What is the size of your vessel?
   - € I do not own a boat
   - € Canoe, Kayak, etc.
   - € 4.5m (15') or less
   - € 4.5 – 6.1m (15' – 20')
   - € 6.1 – 7.6m (20' – 25')
   - € 7.6 – 9.1m (25' – 30')
   - € 9.1m (30') or more

8. Age:
   - € 16 – 29
   - € 30 – 39
   - € 40 – 49
   - € 50 – 59
   - € 60 – over

9. Sex
   - Male
   - Female

10. Household Income
    - € $29,999 or less
    - € $30,000 - $49,999
    - € $50,000 - $69,999
    - € $70,000 – $99,999
    - € $100,000 or more

Significant discounts are now available for first-time users, available until November 15, 2000**. Also, please contact NDI for any information on discounts for digital ocean™ CD updates.**

Toll free: 1-800-563-0634
Email: distrib@ndi.nf.ca

Thank you for taking the time to complete our questionnaire! Please feel free to send along any additional comments or suggestions.

Les cartes marines protègent la vie, la propriété et l'environnement marin.
Nautical Charts Protect Life, Property and the Marine Environment.

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 licence information and rates please contact the distributor, Nautical Data International Inc. (NDI) at the above-mentioned address.

CHARTS	MAIN TITLE	PUBLISHED	PRICE
New Charts.			
3447R/M	Nanaimo Harbour and/et Departure Bay	10 Dec 1999	See Note 2
3935R/M	Hakai Passage and vicinity / et environs	28 Jan 2000	See Note 2

L/C3461 - Juan de Fuca Strait, Eastern Portion / Partie Est - New Chart - 06-JAN-1984 - Nad 1927

20-OCT-2000. LNM/D. 15-SEP-2000

(P)Add	submarine cable	joining	47°58`02.9"N	122°34`30.0"W
			48°00`02.5"N	122°36`07.9"W
			48°00`20.9"N	122°36`34.1"W
			48°00`30.6"N	122°37`06.8"W
			48°00`58.7"N	122°37`40.2"W
			48°01`49.7"N	122°38`16.2"W
			48°03`00.8"N	122°38`37.8"W
			48°04`00.5"N	122°38`46.3"W
			48°05`24.8"N	122°39`13.2"W
			48°06`58.6"N	122°40`23.9"W
			48°08`01.3"N	122°41`43.8"W
			48°08`37.7"N	122°42`55.2"W
			48°09`51.7"N	122°44`55.7"W
			48°11`33.8"N	122°47`55.7"W
			48°13`09.2"N	122°50`38.1"W
			48°13`39.9"N	122°51`12.2"W
			48°14`18.8"N	122°52`24.9"W
			48°14`50.3"N	122°54`00.4"W
			48°14`55.1"N	122°54`55.5"W
			48°14`44.2"N	122°56`55.3"W
			48°14`43.3"N	122°58`17.8"W
			48°14`55.9"N	123°00`55.6"W
			48°14`56.4"N	123°02`13.5"W
			48°14`13.1"N	123°06`32.2"W
			48°12`09.2"N	123°14`55.7"W
			48°11`57.9"N	123°16`40.5"W
			48°11`41.2"N	123°17`37.5"W
			48°11`00.9"N	123°18`33.1"W
			48°10`40.4"N	123°19`20.3"W
			48°10`17.6"N	123°21`01.1"W
			48°10`09.3"N	123°22`23.0"W
			48°10`09.7"N	123°26`14.7"W
			48°10`29.0"N	123°28`02.8"W
			48°10`52.2"N	123°29`03.1"W
			48°11`05.8"N	123°29`24.0"W
			48°11`25.9"N	123°29`41.7"W
			48°11`35.1"N	123°29`56.7"W
			48°11`46.9"N	123°30`41.3"W
			48°11`43.4"N	123°34`44.2"W
			48°11`47.8"N	123°35`49.7"W
			48°11`54.8"N	123°36`30.9"W
			48°12`14.9"N	123°37`12.2"W

			48°12`38.1"N	123°39`30.3"W
			48°12`43.4"N	123°40`58.8"W
		and	48°13`14.9"N	123°45`30.0"W

This information will be incorporated in the next New Edition.

3548 - Queen Charlotte Strait, Central Portion/Partie Centrale - New Edition - 26-SEP-1997 - NAD 1983

13-OCT-2000. LNM/D. (1102-1999)

Amend	Fl 5s 14m 9M to read Fl 4s 14m 9M against light		50°48`19.4"N	127°27`38.0"W

3549 - Queen Charlotte Strait, Western Portion/Partie Ouest - New Chart - 03-DEC-1993 - NAD 1983

13-OCT-2000. LNM/D. 28-JUL-2000

Amend	Fl 5s 14m to read Fl against light		50°48`19.4"N	127°27`38.0"W

L/C3604 - Nootka Sound to/à Quatsino Sound - New Edition - 06-NOV-1987 - Nad 1927

06-OCT-2000. LNM/D. 18-AUG-2000

Add	depth of 4.7 metres		50°01`04.8"N	127°29`19.1"W

L/C3606 - Juan de Fuca Strait - New Edition - 27-JUL-1984 - Nad 1927

27-OCT-2000. LNM/D. (2324-1999)

CANCELS	submarine cable	joining	48°10`31.0"N	123°21`00.0"W
			48°10`29.2"N	123°21`07.1"W
			48°10`21.9"N	123°22`44.9"W
			48°10`21.4"N	123°26`05.8"W
			48°10`39.7"N	123°27`53.9"W
			48°11`06.2"N	123°28`51.3"W
			48°11`37.7"N	123°29`22.7"W
			48°11`55.1"N	123°30`13.3"W
			48°12`07.5"N	123°32`25.9"W
			48°11`56.5"N	123°35`38.7"W
			48°12`26.2"N	123°37`07.6"W
			48°12`49.0"N	123°39`23.0"W
			48°13`30.7"N	123°45`34.7"W
			48°13`58.5"N	123°49`59.4"W
			48°16`08.7"N	124°04`26.9"W
			48°16`32.1"N	124°08`15.0"W
			48°18`00.5"N	124°13`18.6"W
			48°19`14.1"N	124°16`24.4"W
			48°21`48.7"N	124°25`07.0"W
			48°23`19.4"N	124°31`24.1"W
			48°24`21.9"N	124°34`04.2"W
			48°26`25.5"N	124°41`35.0"W
			48°26`47.5"N	124°48`29.0"W
			48°26`38.7"N	124°49`51.9"W
			48°23`59.9"N	124°57`13.5"W
		and	48°23`39.9"N	124°59`00.0"W

This information which was advertised previously in the April 2000 Edition, against chart 3606 is now cancelled.

Add	Submarine cable	joining	48°10`17.8"N	123°21`00.0"W

			48°10`09.5"N	123°22`22.7"W
			48°10`09.5"N	123°26`14.6"W
			48°10`28.9"N	123°28`02.9"W
			48°10`52.4"N	123°29`03.2"W
			48°11`05.7"N	123°29`23.8"W
			48°11`26.0"N	123°29`41.5"W
			48°11`42.2"N	123°30`13.9"W
			48°11`47.0"N	123°30`41.0"W
			48°11`43.5"N	123°34`44.3"W
			48°11`47.7"N	123°35`10.4"W
			48°11`47.7"N	123°35`49.7"W
			48°11`55.0"N	123°36`31.2"W
			48°12`15.0"N	123°37`12.2"W
			48°12`38.2"N	123°39`30.3"W
			48°12`43.2"N	123°40`58.4"W
			48°13`45.8"N	123°49`55.3"W
			48°15`45.3"N	124°03`19.1"W
			48°16`18.7"N	124°08`20.6"W
			48°17`46.6"N	124°13`18.2"W
			48°19`11.9"N	124°17`07.8"W
			48°21`28.0"N	124°24`46.9"W
			48°22`31.3"N	124°29`17.9"W
			48°23`09.4"N	124°31`36.0"W
			48°24`04.9"N	124°34`03.3"W
			48°25`24.2"N	124°38`55.4"W
			48°26`30.7"N	124°48`19.8"W
			48°26`27.6"N	124°49`10.1"W
			48°26`02.3"N	124°50`35.6"W
			48°25`18.8"N	124°52`46.7"W
			48°24`48.1"N	124°53`45.8"W
			48°24`09.1"N	124°55`20.3"W
			48°23`51.4"N	124°56`23.4"W
			and 48°23`19.3"N	124°59`00.0"W
CANCELS	submarine cable		joining 48°11`13.3"N	123°21`04.8"W
			48°11`06.7"N	123°22`54.9"W
			48°10`54.7"N	123°24`24.6"W
			48°10`54.7"N	123°25`20.4"W
			48°11`04.9"N	124°26`23.4"W
			48°11`13.3"N	123°27`31.8"W
			48°11`24.7"N	124°34`25.2"W
			48°11`48.7"N	123°35`25.2"W
			48°13`18.7"N	123°36`19.2"W
			48°13`36.7"N	123°37`07.2"W
			48°16`48.7"N	123°59`55.2"W

			48°21`07.9"N	124°16`06.6"W
			48°22`13.2"N	124°21`16.8"W
			48°26`16.3"N	124°31`55.2"W
			48°28`03.1"N	124°40`19.2"W
			48°28`12.7"N	124°43`55.2"W
			48°26`07.9"N	124°55`55.2"W
			48°25`36.7"N	124°57`55.2"W
		and	48°25`32.5"N	124°59`04.8"W

This information which was advertised previously in the April 2000 Edition, against chart 3606 is now cancelled.

Add	submarine cable	joining	48°11`13.3"N	123°21`04.8"W
			48°11`06.7"N	123°22`54.9"W
			48°10`54.7"N	123°24`24.6"W
			48°10`54.7"N	123°25`20.4"W
			48°11`04.9"N	123°26`23.4"W
			48°11`13.3"N	123°27`31.8"W
			48°11`24.7"N	123°34`25.2"W
			48°11`48.7"N	123°35`25.2"W
			48°13`18.7"N	123°36`19.2"W
			48°13`36.7"N	123°37`07.2"W
			48°16`48.7"N	123°59`55.2"W
			48°21`07.9"N	124°16`06.6"W
			48°22`13.2"N	124°21`16.8"W
			48°26`16.3"N	124°31`55.2"W
			48°28`03.1"N	124°40`19.2"W
			48°28`12.7"N	124°43`55.2"W
			48°26`07.9"N	124°55`55.2"W
			48°25`36.7"N	124°57`55.2"W
		and	48°25`32.5"N	124°59`04.8"W

This information will be incorporated in the next printing of the chart.

Add	submarine cable	joining	48°10`31.0"N	123°21`00.0"W
			48°10`29.2"N	123°21`07.1"W
			48°10`21.9"N	123°22`44.9"W
			48°10`21.4"N	123°26`05.8"W
			48°10`39.7"N	123°27`53.9"W
			48°11`06.2"N	123°28`51.3"W
			48°11`37.7"N	123°29`22.7"W
			48°11`55.1"N	123°30`13.3"W
			48°12`07.5"N	123°32`25.9"W
			48°11`56.5"N	123°35`38.7"W
			48°12`26.2"N	123°37`07.6"W
			48°12`49.0"N	123°39`23.0"W
			48°13`30.7"N	123°45`34.7"W
			48°13`58.5"N	123°49`59.4"W

		48°16`08.7"N	124°04`26.9"W
		48°16`32.1"N	124°08`15.0"W
		48°18`00.5"N	124°13`18.6"W
		48°19`14.1"N	124°16`24.4"W
		48°21`48.7"N	124°25`07.0"W
		48°23`19.4"N	124°31`24.1"W
		48°24`21.9"N	124°34`04.2"W
		48°26`25.5"N	124°41`35.0"W
		48°26`47.5"N	124°48`29.0"W
		48°26`38.7"N	124°49`51.9"W
		48°23`59.9"N	124°57`13.5"W
		and 48°23`39.9"N	124°59`00.0"W

3623 - Kyuquot Sound to/à Cape Cook - New Edition - 26-AUG-1977 - Nad 1927

06-OCT-2000.			LNM/D. 21-JUL-2000
Delete	depth of 13 fathoms	50°01`06.5"N	127°29`23.9"W
Delete	depth of 6 fathoms 5 feet	50°03`03.0"N	127°27`01.0"W
Add	depth of 2 fathoms 3 feet	50°01`04.8"N	127°29`19.0"W
Add	depth of 1 fathom 4 feet	50°03`04.1"N	127°26`59.4"W

3683 - Checleset Bay - New Edition - 06-MAR-1998 - NAD 1983

06-OCT-2000.			
Add	depth of 2 1/2 fathoms	50°01`04.1"N	127°29`24.5"W
Add	depth of 1 3/4 fathoms	50°03`03.4"N	127°27`04.9"W

3935 - Hakai Passage and Vicinity / et Environs - New Chart - 28-JAN-2000 - NAD 1983

27-OCT-2000.		
Amend	On certain copies	outside north border at 128°14'00"W
	Adjoining Chart/Carte adjacente 3727 to read Adjoining Chart/Carte adjacente 3937	

7067 - SPICER ISLANDS TO WEST ENTRANCE OF FURY AND HECLA STRAIT - New Edition - 30-APR-1971 - Aerial Photography (uncontrolled)

27-OCT-2000.			LNM/D. (801-1992)
Amend	legend Aero RC to read "RC"	68°46`02.0"N	081°15`23.0"W

7083 - Cambridge Bay to Shepherd Bay - New Edition - 15-JUN-1984 - Aerial Photography (uncontrolled)

06-OCT-2000.		LNM/D. (2308-1999)
Amend	Adjoining Chart 7740 to read "Adjoining Chart 7573"	top border at 70°17'45"N 98°20'00"W (Approx)

7122 - CULBERTSON ISLAND TO KOOJESSE INLET - New Edition - 19-OCT-1962 - Nad 1927

27-OCT-2000.			LNM/D. (953-1985)
Add	radio beacon	63°43`52.9"N	068°33`19.6"W
Add	aeronautical radio beacon	63°44`22.9"N	068°28`50.6"W

7127 - Approaches to Koojesse Inlet - New Edition - 27-MAY-1983 - Astronomic Positioning

27-OCT-2000.			LNM/D. (902-1998)
Add	radio beacon	63°43`52.9"N	068°33`19.5"W
Add	aeronautical radio beacon	63°44`22.9"N	068°28`50.5"W

7127 - Koojesse Inlet - New Edition - 27-MAY-1983 - Astronomic Positioning

27-OCT-2000.		LNM/D. (902-1998)
Add	aeronautical radio beacon	63°44`22.9"N 068°28`50.5"W

7485 - PARRY BAY TO/AU NAVY CHANNEL - New Chart - 17-MAR-1989 - NAD 1983

27-OCT-2000.		LNM/D. (801-1992)
Amend	legend Aero RC to read "RC"	68°46`02.0"N 081°15`23.0"W
Add	aeronautical radiobeacon	68°46`42.0"N 081°14`22.0"W

7570 - Barrow Strait and/et Viscount Melville Sound - New Chart - 02-MAY-1986 - Nad 1927

13-OCT-2000.		LNM/D. (784-1996)
Amend	Adjoining Chart/Carte adjacente 7830 to read "Adjoining Chart/Carte adjacente 7573"	bottom border at 73°11'30"N 102°40'00"W (Approx)

7575 - Peel Sound and/et Prince Regent Inlet - New Chart - 06-MAR-1992 - NAD 1983

13-OCT-2000.		
Amend	Adjoining Chart/Carte adjacente 7740 to read "Adjoining Chart/Carte adjacente 7573"	bottom border at 71°05'00"N 98°15'00"W (Approx)

7760 - ST.ROCH AND RASMUSSEN BASINS - New Chart - 03-MAY-1968 - Unknown

20-OCT-2000.		LNM/D. (389-1996)
Amend	Adjoining Chart 7083 to read "Adjoining Chart 7573"	north border at 69º47'00"N 96º30'00"W (Approx)

7784 - VICTORIA STRAIT - New Chart - 03-JUL-1998 - NAD 1983

20-OCT-2000.		LNM/D. (2308-1999)
Amend	Adjoining Chart/Carte adjacente 7740 to read "Adjoining Chart/Carte adjacente 7573"	north border at 69º41'30" N 99º45'00"W (Approx)

7950 - Jones Sound Norwegian Bay and Queens Channel - New Edition - 03-MAY-1985 - SHORAN (short range) Positioning using Trilateration

20-OCT-2000.		LNM/D. (1330-1999)
Amend	Adjoining Chart 7830 to read "Adjoining Chart 7570"	lower left border at 75º05'00" N 96º30'00" W (Approx)

7951 - Bathurst Island to/à Borden Island - New Edition - 24-FEB-1984 - SHORAN (short range) Positioning using Trilateration

20-OCT-2000.		LNM/D. (1330-1999)
Amend	Adjoining Chart/Carte adjacente 7830 to read "Adjoining Chart/Carte adjacente 7570"	bottom border at 75º 24'00"N 102°05'00"W (Approx)

British Columbia, Volume 1, Sixteenth Edition, 1999 —

Page 3 — Under **FORMAT REQUIRED** (Re: Correction P00-26.1 promulgated in Monthly Edition No. 4/2000)
Delete: "WHISKEY" to end of paragraph.
Replace by: WHISKEY For approaches to Juan de Fuca Strait
Ballast Water — If in-ballast, has your vessel:

1. Conducted open ocean ballast water exchange at least 200 Nautical Miles offshore since your last port of call? YES or NO
2. A Ballast Water Management Plan? YES or NO
3. Made the required notification and reports to Canada/United States as applicable? YES or NO

NOTE: Notification/Reports required by:
UNITED STATES:
U.S. Coast Guard c/o Smithsonian
FAX: (301) 261-4319
CANADA: To Destination Port
Vancouver Port FAX: (604) 665-9099
Fraser Port FAX: (604) 524-1127
Nanaimo Port FAX: (250) 753-4899

(P00-68)

Page 203 — Paragraph 741, lines 2 and 3
Line 2 — Delete: Nanaimo Harbour Commission
Replace by: Nanaimo Port Authority
Line 3 — Delete: public wharf in
Line 3 — After "Inlet"
Insert: Basin

(P00-64.1)

Page 203 — Paragraph 742, line 5
Delete: Assembly wharf
Replace by: Terminal

(P00-64.2)

Page 203 — Delete paragraphs 745 to 747
Replace by: 745 **Regulations**. — The *Practices and Procedures* established by the Nanaimo Port Authority apply to all ships within the harbour limits. Copies of the *Practices and Procedures* can be obtain by writing to

Nanaimo Port Authority,
P.O. Box 131,
Nanaimo, B.C. V9R 5K4

745.1 A 'ship' means every description of vessel, boat or craft designed, used or capable of being used solely or partly for marine navigation, whether self-propelled or no and without regard to the method of propulsion, and includes a seaplane and raft or boom of log or lumber.

746 The regulations require persons in charge of ships to make certain reports to the Port Authority and govern ships manoeuvring or otherwise underway, at anchor, berthing or alongside a berth within the harbour limits. No ship shall move in the harbour at a rate of speed that may endanger or injury any person or cause damage to or interfere with any ship, tow, port facility, structure, construction site or work being carried on by the Authority or by any person. No ship shall move in excess of any rate of speed authorized by the Port Authority.

747 Ships are regulated with respect to watch – keeping, bunkering, anchoring, cargo handling operations and lighting. There are specific regulations for carrying and handling explosives and dangerous goods as well as rules to be observed in the prevention of fire.

747.1 The *Practices and Procedures* forbid the discharge of sewage or other pollutants into the waters of the harbour.

(P00-64.3)

Page 203 — Paragraph 749, line 2
Delete: exhibits
Replace by: may exhibit

(P00-64.4)

Page 203 — Paragraph 751, lines 1, 3 and 4
Line 1 — After "Nanaimo"
Insert: for ships greater than 50 m in length,
Lines 3 and 4 — Delete: "Small vessels" to end of paragraph.
Line 3 — After "A to G"
Insert: and are for use by large commercial ships. There is a small ship anchorage in Mark Bay north of the seaplane water aerodrome. No ship shall anchor within a designated seaplane water aerodrome in the harbour. The southern limit of the small ship anchorage is marked by "no anchoring" buoys.

(P00-64.5)

Page 204 — Paragraph 758, line 2 – after "water aerodrome."
Insert: No ship shall anchor within a designated water aerodrome.

(P00-64.6)

Page 204 — Paragraph 762, line 3 – after "vicinity"
Insert: and reduce speed to less than 5 kn.

(P00-64.7)

Page 204 — Paragraph 768, lines 1, 2 and 3
Lines 1 and 2 — Delete: and a water-ski raft
Line 3 — After "months."
Insert: No ship shall move at a speed greater than 5 kn within 180 m of a swimmer or 365 m of a beach.

(P00-64.8)

Page 204 — Paragraph 773, line 1
Delete: Imperial Oil Company
Replace by: Esso (Imperial) Oil Bulk Plant

(P00-64.9)

Page 206 — Paragraph 799, lines 2 and 3 (Re: Correction promulgated in Monthly Edition No. 10/99)
Delete: "rules of ... Port Authority."
Replace by: *Practices and Procedures* established by the Nanaimo Port Authority.

(P00-64.10)

Page 206 — Paragraph 802, line 2 – after "Duke Point"
Insert: Ferry

(P00-64.11)

Page 206 — Paragraph 809, line 3
Delete: operated by MacMillan Bloedel Limited
Replace by: Weyerhauser Canada Limited operate Harmac East Dock and Pope and Talbot Limited (Harmac Pulp) operate Harmac West Dock.

(P00-64.12)

Page 208 — Delete "Major Port Facilities — Northumberland Channel" Table
Replace by: Major Port Facilities — Northumberland Channel (r.1) Table

Major Port Facilities — Northumberland Channel (r.1)

Berth	Wharf Length (m)	Least Depth (m)	Elevation (m)	Remarks
Pope & Talbot Limited – Harmac Pulp Operations West Dock	115	10		152 m berthing between dolphins off each end of wharf, mooring buoys off each end of wharf. 5.4-tonne forklift trucks, 18-tonne straddle carrier; loading rates average 28 tonnes/gang hour (loose pulp), 150 tonnes/gang hour (unitized). Fresh water at 10.8 tonnes/hour through 1½" hose, power 110v/20 amps, telephone. No shore gangway.
Weyerhauser Canada Limited – Harmac East Dock	137	10.4		Used for loading packaged lumber. Mooring buoys off each end of wharf. Two 8-tonne and three 11.3-tonne forklift trucks. 4,273 m^2 open storage. Fresh water at 10.8 tonnes/hour through 1½" hose, power 110v/20 amps, telephones. No shore gangway.
Canadian Occidental Petroleum Wharf	70	11		Used for unloading sodium chloride, loading caustic soda. Mooring buoys off each end of wharf. Submarine pipeline close north of wharf.
Barge Ramp				Used for loading railway freight cars.
Duke Point Terminal	170	13.5	2	Operated by the Nanaimo Port Authority (250) 753-4146. Handles forest products, general and project cargoes. Berthing dolphins 50 m NW & SE and connected to wharf by catwalk. 40-tonne container crane. Designed to berth Flensburg Class forest products carrier approaching berth perpendicular to face at 0.15 m/sec. Maximum dimensions of this class are: Deadweight 45,000 tonnes, Length 2,134 m, Beam 30 m. 6 hectares paved open storage.
Duke Point Barge Berth				Designed for barges 63 m long with maximum draught 4.2 m. 100-tonne capacity barge ramp. 19.5 hectares open storage.
Scow Loading Float	121	3.7		Mooring buoys north of wharf.
Doman Industries South Barge Wharf	140			Used by nearby sawmill for loading scows.
Doman Industries North Barge Wharf	140			Used by nearby sawmill for loading scows. Rockfill breakwater at north end.

(P00-64.13)

Page 208 — Paragraph 810, lines 2 and 3
Line 2 — Delete: MacMillan Bloedel Pulp (West) wharf
Replace by: Harmac West Dock
Line 3 — Delete: Assembly wharf
Replace by: Terminal. The crane at Duke Point Terminal is also lit.

(P00-64.14)

Page 210 — Paragraph 833, line 1
Delete: rail

(P00-64.15)

Page 210 — Paragraph 837, lines 2 and 3
Delete: "a line drawn" to end of paragraph.
Replace by: the water aerodrome. The south limit of the anchorage is marked by three **no anchorage buoys**. No ship shall anchor within a designated water aerodrome in the harbour. All ships at anchor shall comply with the lights and shapes prescribed in the *Collision Regulations*. The anchorage is in an area where other vessels normally navigate.

837.1 A **speed limit** has been introduced in the waters between Protection and Newcastle Islands. Speed restriction **buoys** are at the SW and NE entrance to Newcastle Island Passage.

(P00-64.16)

Page 210 — Paragraph 838, lines 1 and 2
Line 1 — After "basin"
Insert: operated by the Nanaimo Port Authority. Contact with the Nanaimo Wharfingers Office can be made on VHF Channel 67 for general information and berth allocation within the basin.
Line 2 — Delete: inlet
Replace by: boat basin

(P00-64.17)

Page 210 — Paragraph 839, lines 1 and 4
Line 1 — Delete: small vessels pier
Replace by: Visiting Vessel Pier
Line 4 — After "Commercial Inlet"
Insert: Basin.

(P00-64.18)

Page 210 — After paragraph 839
Add: 839.1 A **submarine cable** (power) is laid from the end of the Visiting Vessel Pier to the central breakwater; it is marked by signs.

(P00-64.19)

Page 210 — Paragraph 840, lines 1, 2, 3 and 4
Line 1 — After "long"
Insert: central
Line 2 — Delete: 80 m wide and is
Line 3 — After "entering"
Insert: and leaving
Line 4 — After "seaplanes"
Insert: A solar powered small ship sewage reception barge is on the breakwater; a nominal fee is charged for self pump-outs.

(P00-64.20)

Page 210 — Paragraph 849, lines 3 and 4
Delete: "A **buoy**" to end of paragraph.
Replace by: **Buoys** 0.1 mile SW of Bate Point have speed caution signs and speed restriction signs are posted along Newcastle Island Passage.

(P00-64.21)

Page 211 — Major Port Facilities — Nanaimo, under "Least Depth"
Berth A — Delete: 9.2
Replace by: 9.5
Berth B — Delete: 11.8
Replace by: 12.2

(P00-64.22)

Page 211 — Paragraph 859, lines 1 and 4
Line 1 — Delete: **small vessel pier**,
Replace by: **Visiting Vessel Pier**,
Line 4 — After "at night."
Insert: A ramp leading from Cameron Island onto the pier has a weight restriction of 9 tonnes.

(P00-64.23)

Page 211 — Paragraph 860, lines 1, 2, 4 and 6
Line 1 — After "between the"
Insert: central
Line 2 — Delete: small
Replace by: visiting
Line 4 — After "showers"
Insert: laundry, crane, ice,
Line 6 — After "floats"
Insert: and can be contacted on VHF Channel 67 between 0700-2300 daily. Reservations for moorage must be made at least 24 hours in advance; telephone (250) 754-5053.

(P00-64.24)

Page 240 — Delete paragraph 114
Replace by: 114 A drying rock lies off **Rouse Bay** in the south approach to Bull Passage.
114.1 A **submarine cable** is laid from Rouse Bay to Thormanby Islands.

(P00-65)

British Columbia, Volume 2, Twelfth Edition, 1991 —

Page 1 — Under **FORMAT REQUIRED** (Re: Correction P00-27.1 promulgated in Monthly Edition No. 4/2000)
Delete: "WHISKEY" to end of paragraph.
Replace by: WHISKEY For approaches to the Prince Rupert VTS Zone and Northern Ports of British Columbia
Ballast Water — If in-ballast, has your vessel:
1. Conducted open ocean ballast water exchange at least 200 Nautical Miles offshore since your last port of call? YES or NO
2. A Ballast Water Management Plan? YES or NO

(P00-69)

Page 153 — Paragraph 24, line 4
Delete: Egg Island,

(P00-67)

Chart 3312 — Jervis Inlet & Desolation Sound, 1991 —

SHEET 1a
Under — **E AND N COASTS**
DETACHED DANGERS (UNDER 5 m)
Insert: — **Bull Pass** — drying rock in south approach off **Rouse Bay**

(P00-66.1)

SHEET 1a
Under — **AIDS TO NAVIGATION (FROM E TO W)**
Delete: — **Bull Pass** — Bn on Rk drying 2.4 m

(P00-66.2)

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
79	*Brown Channel light and whistle buoy MC*	*49 59 26.8* *127 26 54*	*Mo(A)*	*W*		.....	.....	*Red and white vertical stripes, marked "MC".*	*Year round.* **Chart:3683** **Edn 10/00**
82 G5202	Amos Island	50 00 45.8 127 21 10.4	Fl	W	4s	8.2	6	White cylindrical tower.	Year round. **Chart:3683** **Edn 10/00**
88	*Esperanza Inlet light and whistle buoy MD* ***Racon - . - (K) X & S Band***	*49 47 06.4* *127 02 53.4*	*Mo(A)*	*W*		.....	.....	*Red and white vertical stripes, marked "MD".*	*Year round.* **Chart:3676** **Edn 10/00**
89	*Middle Reef light buoy M41*	*E. of reef.* *49 48 05.4* *127 02 23.4*	*Fl*	*G*	*4s*	.....	.....	*Green, marked "M41".*	*Year round.* **Chart:3676** **Edn 10/00**
90 G5204	Nuchatlitz	On NW. extremity of unnamed island. 49 49 11.2 126 58 54.1	Fl	W	4s	11.2	6	White cylindrical tower. 4.5	Year round. **Chart:3676** **Edn 10/00**
91 G5206	Double Island	On the island. 49 50 38.3 126 59 51.8	Fl	W	10s	10.2	12	White cylindrical tower, green band at top. 3.8	Flash 0.3 s; eclipse 9.7 s. Year round. **Chart:3676** **Edn 10/00**
92 G5206.4	Centre Island	NW. shore of island. 49 50 56.7 126 56 08	Fl	R	4s	6.7	5	White cylindrical tower, red band at top. 4.4	Year round. **Chart:3676** **Edn 10/00**
93 G5206.6	Ehatishat	On point, E. of Ehatishat. 49 52 51.1 126 49 31.4	Fl	W	4s	6.8	7	Mast. 3.0	Year round. **Chart:3676** **Edn 10/00**
94 G5207	Steamer Point	On point. 49 53 11.4 126 47 52.7	Q	W	1s	5.6	6	White cylindrical tower. 4.7	Year round. **Chart:3676** **Edn 10/00**
95 G5207.6	Zeballos Inlet South	On point on W. shore. 49 54 25.3 126 48 03.1	Fl	G	4s	7.3	5	White cylindrical tower, green band at top. 4.5	Year round. **Chart:3676** **Edn 10/00**
96 G5208	Zeballos Inlet	On small island, W. side of inlet. 49 56 46.8 126 48 59.9	Q	W	1s	12.5	6	White cylindrical tower, green band at top. 4.8	Year round. **Chart:3676** **Edn 10/00**
97 G5209	Zeballos Inlet North	On point. 49 57 34 126 50 45.4	Q	R	1s	6.4	.....	White cylindrical tower, red band at top. 5.0	Year round. **Chart:3676** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
97.8 G5209.5	McBride Bay	49 51 39.4 126 43 47.3	Q	R	1s	5.1	.....	White cylindrical tower, red band at top. 4.6	Year round. **Chart:3676** **Edn 10/00**
98 G5210	Tahsis Narrows North	On the NE. side of narrows. 49 51 52.9 126 42 28.9	Q	W	1s	6.1	5	White cylindrical tower, red band at top. 5.6	Year round. **Chart:3676** **Edn 10/00**
98.3 G5210.4	Tahsis Narrows South	S. side of narrows. 49 51 36 126 41 30.4	Fl(2)	W	6s	5.8	6	White cylindrical tower, green band at top. 5.8	Flash 0.5 s; eclipse 1 s; flash 0.5 s; eclipse 4 s. Year round. **Chart:3676** **Edn 10/00**
99 G5211	Tahsis Narrows	On Mozino Point, E. entrance to Narrows. 49 51 33.7 126 40 26.2	Fl	W	4s	6.2	6	White cylindrical tower. 6.1	Year round. **Chart:3676** **Edn 10/00**
99.5 G5213	Santiago	49 47 15.7 126 39 15.6	Fl	W	4s	5.8	6	Mast, black, white and green square daymark. 4.4	Year round. **Chart:3676** **Edn 10/00**
100 G5214	Tsowwin Narrows	On edge of spit extending out from E. side of inlet. 49 46 35 126 38 36.5	Q	R	1s	4.7	.....	Long pile of a 9-pile dolphin, red and white triangular daymark. 9.3	Radar reflector. Year round. **Chart:3676** **Edn 10/00**
100.2 G5214.2	Tsowwin Narrows West	49 46 23.9 126 38 43.2	Q	G	1s	5.7	.....	White cylindrical tower, green band at top. 5.8	Year round. **Chart:3676** **Edn 10/00**
100.8 G5214.6	Bodega	NE. of Bodega Island. 49 44 13.1 126 37 25.8	Fl	R	4s	4.5	.....	Mast. 5.5	Year round. **Chart:3676** **Edn 10/00**
101 G5215	Princesa Channel	On edge of reef at E. entrance to channel. 49 43 23.6 126 37 35.1	Fl	G	4s	5.0	.....	White cylindrical tower, green band at top. 8.1	Radar reflector. Year round. **Chart:3676** **Edn 10/00**
102 G5215.4	Kendrick Inlet	On rock. 49 43 06.6 126 38 29.4	Fl	W	4s	4.0	6	Mast. 3.6	Radar reflector. Year round. **Chart:3675** **Edn 10/00**
102.5 G5215.6	Jewitt Cove	49 41 56.4 126 36 05.1	Fl	W	4s	6.4	6	Mast. 4.6	Year round. **Chart:3675** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
103 G5216	Canal Island	On W. side of island. 49 41 17.1 126 35 09	Fl	R	4s	5.5	.....	White cylindrical tower, red band at top. 4.5	Year round. **Chart:3675 Edn 10/00**
103.5 G5216.4	Salter Point	49 40 57.3 126 35 13.9	Q	G	1s	6.4	.....	White cylindrical tower, green band at top. 4.8	Year round. **Chart:3675 Edn 10/00**
104 G5217	Boston Point	On point. 49 39 41.1 126 36 45.9	Fl	G	4s	7.6	.....	White cylindrical tower, green band at top. 4.5	Year round. **Chart:3675 Edn 10/00**
104.8 G5217.4	Vernaci Island	49 38 12.3 126 35 34.2	Fl(3)	W	12s	7.9	7	Mast. 6.0	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3675 Edn 10/00**
105 G5219	**Nootka**	On summit of San Rafael Island. 49 35 33.5 126 36 55.4	F Fl	W W	 12s	30.9	**17**	Red square skeleton tower.	Year round. Flash 0.15 s; eclipse 11.9 s. **Horn -** Blast 3s; sil. 3s; blast 3s; sil. 51s. Horn points SE. **Chart:3675 Edn 10/00**
106	*Bajo Reef light and whistle buoy M56*	*S. of Bajo Reef.* *49 33 48* *126 50 00*	*Fl*	*R*	*4s*	*.....*	*.....*	*Red, marked "M56".*	*Year round.* **Chart:3675 Edn 10/00**
107 G5219.4	Clerke Peninsula	On S. extremity of peninsula. 49 36 08.6 126 32 17.8	Fl	W	4s	12.2	7	Mast.	Year round. **Chart:3675 Edn 10/00**
108 G5218.3	San Carlos Point	On point. 49 41 09.4 126 31 16.9	Q	W	1s	6.0	6	White cylindrical tower. 5.6	Year round. **Chart:3675 Edn 10/00**
108.5 G5219.6	Zuciarte Channel South	S. entrance to channel. 49 35 44 126 31 18.4	Fl	R	4s	9.4	.....	White cylindrical tower, red band at top.	Year round. **Chart:3675 Edn 10/00**
109 G5218.5	Hanna Channel	On point, NE. shore of Bligh Island. 49 40 34.5 126 29 45.1	Fl	G	4s	5.7	.....	White cylindrical tower, green band at top.	Year round. **Chart:3675 Edn 10/00**

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

PACIFIC

109.5 G5220	Zuciarte Channel	E. side of Bligh Island. 49 39 06.5 126 29 02.7	Fl(3)	W	12s	6.3	6	White cylindrical tower, green band at top.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3675 Edn 10/00**
109.8 G5220.1	Anderson Point	49 38 46 126 28 17.5	Q	R	1s	6.8	.....	White cylindrical tower, red band at top. 4.6	Year round. **Chart:3675 Edn 10/00**
110 G5220.2	Atrevida Point	On the point. 49 39 10.7 126 26 27.4	Q	G	1s	6.4	.....	White cylindrical tower, green band at top. 4.6	Radar reflector. Year round. **Chart:3675 Edn 10/00**
110.3 G5220.4	Gore Island West	W. extremity of island. 49 38 56.6 126 26 00.5	Q	R	1s	7.2	.....	White cylindrical tower, red band at top. 4.5	Year round. **Chart:3675 Edn 10/00**
110.5 G5220.6	Gore Island	N. side of island. 49 39 16.3 126 23 33.5	Fl	R	4s	6.3	.....	White cylindrical tower, red band at top. 4.6	Year round. **Chart:3675 Edn 10/00**
110.7 G5220.8	Williamson Passage	49 39 08 126 22 22.2	Fl	W	4s	4.8	6	Mast. 3.6	Year round. **Chart:3675 Edn 10/00**
111 G5221	Muchalat Inlet	On point, on N. shore of inlet. 49 38 40.8 126 20 53.3	Q	G	1s	5.5	.....	White cylindrical tower, green band at top. 4.8	Year round. **Chart:3675 Edn 10/00**
111.8 G5221.1	Houston River	NE. of river entrance. 49 38 29 126 17 31.6	Fl	W	4s	5.0	6	Mast. 3.6	Year round. **Chart:3675 Edn 10/00**
112 G5221.2	Muchalat Inlet East	On N. shore of inlet. 49 39 05 126 15 46.5	Fl	G	4s	5.4	.....	White cylindrical tower, green band at top. 6.4	Year round. **Chart:3675 Edn 10/00**
112.2 G5221.4	Muchalat Inlet South Shore	S. side of inlet. 49 39 13.8 126 12 51.8	Fl	R	4s	6.9	.....	White cylindrical tower, red band at top. 6.1	Year round. **Chart:3675 Edn 10/00**
112.4 G5221.6	Victor Island	N. side of island. 49 39 47.3 126 09 31.8	Fl	W	4s	7.9	6	Mast, red and white triangular daymark. 3.6	Year round. **Chart:3675 Edn 10/00**
113 G5222	Gold River	W. side of entrance to Gold River. 49 40 30 126 07 39.2	Q	G	1s	7.4	.....	White cylindrical tower, green band at top. 5.6	Year round. **Chart:3675 Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
196 G5307	Scroggs Rocks	S. side of rocks. 48 25 34.2 123 26 19.8	Fl	R	4s	6.2	5	White cylindrical tower, red band at top.	Year round. Radar reflector. **Chart:3419** **Edn 10/00**
203	*Victoria Harbour Cautionary light buoy VH* ***Racon . . - . (F)*** ***X & S Band***	*SW. of Brotchie Ledge light.* *48 22 31.3* *123 23 33.7*	*Fl*	*Y*	*4s*	.....	.....	*Yellow, marked "VH".*	*Year round.* **Chart:3440** **Edn 10/00**
215 G5332	Fiddle Reef Sector	On reef. 48 25 45.6 123 17 02.1	Q	W-R	1s	7.1	6	White cylindrical tower.	Year round. Radar reflector. Red 170°30' through S. to 216°; white 216° through W. and N. to 013°20'; red 013°20' to 062°; white 062° through E. to 170°30'. **Chart:3424** **Edn 10/00**
216 G5334	**Discovery Island**	On extremity of island, Haro Strait. 48 25 28.3 123 13 32.7	Fl	W	5s	28.3	**16**	White cylindrical tower. 10.7	Flash 0.14 s; eclipse 4.86 s. Year round. **Horn -** Blast 6s; sil. 54s. **Chart:3424** **Edn 10/00**
216.3 G5334.5	Baynes Channel North	SSE. of Cadboro Point. 48 27 00.9 123 15 50	Q	G	1s	6.4	5	White cylindrical tower, green band at top.	Year round. Radar reflector. **Chart:3424** **Edn 10/00**
216.4	*Haro Strait South Cardinal light buoy VD* ***Racon.-. (R)*** ***X & S Band***	*48 27 05.3* *123 10 50.7*	*Q(6) +LFl*	*W*	*15s*	.....	.....	*Yellow and black, marked "VD".*	*Year round.* **Chart:3440** **Edn 10/00**
222.8	*Little Zero Rock light buoy V30*	*W. of rock.* *48 31 54.3* *123 19 44.7*	*Q*	*R*	*1s*	.....	.....	*Red, marked "V30".*	*Year round.* **Chart:3440** **Edn 10/00**
223 G5336	Zero Rock	48 31 25.3 123 17 30.7	Fl	W	4s	8.5	7	White cylindrical tower, green band at top.	Radar reflector. Year round. **Chart:3440** **Edn 10/00**
224 G5337	Kelp Reefs	On the NE. reef, Haro Strait. 48 32 51.3 123 14 12.7	Q	W	1s	10.7	6	White tower.	Year round. **Chart:3440** **Edn 10/00**
225 G5339	Tom Point	On small islet E. of point. 48 39 45 123 16 20	Fl	W	4s	6.4	7	White cylindrical tower, green band at top.	Year round. Radar reflector. **Chart:3441** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
225.4 G5341	Forrest Island	48 39 18.4 123 19 19.2	Fl	R	4s	8.3	.....	White cylindrical tower, red band at top.	Year round. Radar reflector. **Chart:3441** **Edn 10/00**
230.3 G5341.4	Sidney Spit	On extreme NW. end of spit. 48 39 14.1 123 20 41	Fl(3)	R	12s	6.9	.....	White cylindrical tower, red band at top. 5.7	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. Radar reflector. **Chart:3476** **Edn 10/00**
230.5 G5342.4	Little Group Rock	Centre of passage between Coal and Ker Islands. 48 40 34.5 123 21 59.6	Fl	W	4s	4.9	6	White cylindrical tower. 3.7	Year round. Radar reflector. **Chart:3476** **Edn 10/00**
236 G5343.5	Fernie Island	On island SE. of island. 48 40 43.6 123 23 24.8	Fl	G	4s	6.7	…..	White cylindrical tower, green band at top.	Year round. Radar reflector. **Chart:3476** **Edn 10/00**
237 G5345.3	Goudge Island	NW. of Goudge Island. 48 41 20 123 23 41	Fl	W	4s	5.8	6	White cylindrical tower.	Year round. Radar reflector. **Chart:3476** **Edn 10/00**
238 G5345.2	Coal Island	On Fir Cone Pt. 48 41 29 123 23 12.5	Fl	G	4s	7.2	5	White cylindrical tower, green band at top.	Year round. Radar reflector. **Chart:3476** **Edn 10/00**
263	*Rosenfeld Rock light buoy U59* ***Racon . . - (U)*** ***X & S Band***	*N. extremity of reef.* *48 48 11.4* *123 01 38.7*	*Fl*	*G*	*4s*	.....	.....	*Green, marked "U59".*	*Year round.* **Chart:3462** **Edn 10/00**
264 G5358	**Saturna Island Sector**	On East Point. 48 47 00 123 02 42	Fl F	W R	15s	36.9 31.1	**17** 7	Red square skeleton tower. 13.7	Flash 0.15 s; eclipse 14.9 s. Emergency light. Year round. Red from 156° through S. to 211°30'. **Chart:3441** **Edn 10/00**
280 G5384	Bare Point	On extremity of point. 48 55 47 123 42 17	Fl	G	4s	9.3	5	White cylindrical tower, green band at top.	Year round. Radar reflector. **Chart:3475** **Edn 10/00**
284 G5378	North Reef	On reef. 48 54 51 123 37 32	Fl(3)	W	12s	6.7	7	White cylindrical tower.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. Radar reflector. **Chart:3442** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
285 G5378.6	Grappler Rock	On rock. 48 56 21.2 123 36 05.1	Fl	R	4s	6.1	.....	White cylindrical tower, red band at top.	Year round. Radar reflector. **Chart:3442** **Edn 10/00**
286 G5379	Southey Point	On N. extremity of Saltspring Island. 48 56 45 123 35 43	Q	W	1s	6.1	6	White cylindrical tower.	Year round. Radar reflector. **Chart:3442** **Edn 10/00**
294.5 G5382.2	Hudson Island North	48 57 58.1 123 40 24	Fl	R	4s	4.9	5	White cylindrical tower, red band at top.	Year round. Radar reflector. **Chart:3477** **Edn 10/00**
332	*Fraser River light buoy S14*	*S. side of channel.* *49 07 39* *123 12 57*	*Fl*	*R*	*4s*	.....	.....	*Red, marked "S14".*	*Year round.* **Chart:3490** **Edn 10/00**
374	Sheers Island	On SE. point of island. 49 25 48.4 121 50 04.2	Fl	G	4s	8.3	.....	Mast, black, white and green square daymark.	Year round. **Chart:3061** **Edn 10/00**
375	Inkman Island	49 28 26.4 121 48 22.8	Fl(3)	W	12s	10.7	6	Mast, black, white and green square daymark.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3061** **Edn 10/00**
376	Long Island	N. end of island. 49 32 12.3 121 51 48.4	Fl	W	4s	8.9	6	Mast, red and white triangular daymark. 3.6	Year round. **Chart:3061** **Edn 10/00**
377	Echo Island	W. side of island. 49 21 08.7 121 48 28	Fl(3)	W	12s	15.7	6	Mast, red and white triangular daymark.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3061** **Edn 10/00**
378	Whippoorwill Point	On point. 49 18 41.3 121 48 02.3	Q	R	1s	9.2	.....	Mast, red and white triangular daymark. 3.2	Year round. **Chart:3061** **Edn 10/00**
379	Harrison Hot Springs	On end of rock breakwater. 49 18 42.5 121 46 37	Fl	G	4s	8.6	5	Long pile on a 4-pile dolphin.	Year round. **Chart:3061** **Edn 10/00**
379.3	Vedder Rock	NE. end of lake. 49 36 23 121 55 41.9	Fl(3)	W	12s	8.0	6	Mast, black, white and green square daymark.	Year round. **Chart:3061** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
379.5	Doctors Point	49 39 47.2 121 59 20.1	Fl	G	4s	6.4	.....	Mast, black, white and green square daymark.	Year round. **Chart:3061** **Edn 10/00**
380	Port Douglas Channel	N. side of entrance. 49 45 20 122 08 10.8	Fl	R	4s	9.1	.....	Mast, red and white triangular daymark.	Year round. **Chart:3061** **Edn 10/00**
436 G5489	Snake Island	N. end of island. 49 13 02.6 123 53 25.9	Fl	W	4s	12.1	7	White cylindrical tower, green band at top.	Year round. **Chart:3447** **Edn 10/00**
437	*Snake Island Reef light and bell buoy P2*	*E. of island.* *49 12 29.4* *123 53 07.9*	*Fl*	*R*	*4s*	.....	.....	*Red, marked "P2".*	*Year round.* **Chart:3447** **Edn 10/00**
438 G5490	Descanso Bay	On point W. side of bay. 49 10 34.5 123 52 11.4	Fl	W	4s	6.1	6	White cylindrical tower.	Year round. **Chart:3447** **Edn 10/00**
438.5 G5491	Jack Point	49 10 02.4 123 53 36.7	Fl	G	4s	4.6	.....	White cylindrical tower, green band at top.	Year round. **Chart:3447** **Edn 10/00**
439 G5492	Gallows Point	On the point. 49 10 12.2 123 55 04.8	Iso	W	2s	7.2	11	White cylindrical tower, red band at top. 4.6	Year round. **Chart:3447** **Edn 10/00**
440 G5493	Nanaimo Harbour Entrance	S. side of entrance. 49 09 56.8 123 54 59.3	Q	G	1s	7.8	5	White cylindrical tower, green band at top on 3-pile dolphin.	Year round. **Chart:3447** **Edn 10/00**
441.5 G5493.2	Nanaimo Harbour Entrance Groyne	E. of Assembly wharf. 49 09 48.4 123 55 15.7	Fl	G	4s	5.7	5	White cylindrical tower, green band at top on 3-pile dolphin.	Year round. **Chart:3447** **Edn 10/00**
441.6	Nanaimo Harbour Sector	Corner of ferry terminal. 49 10 00.3 123 55 51.5	Q	R W G	1s	6.0	.....	Structure.	Privately operated. Red from 250° to 257°; white from 257° to 270°30'; green from 270°30' to 278°. White sector indicates preferred channel. Maintained by Nanaimo Harbour Commission. **Chart:3447** **Edn 10/00**
442 G5493.5		49 09 56.3 123 55 48.1	Iso	G	1.5s	14.6	**25**	Triangular skeleton tower, red daymark, white vertical stripe.	Year round.
	Colliery range								
443 G5493.5 1		254°08' 106.7m from front.	Iso	G	2s	23.8	**25**	Triangular skeleton tower, red daymark, white vertical stripe.	Year round. **Chart:3447** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
444	*Millstone light buoy P9*	*49 10 23.9* *123 56 06.9*	*Q*	*G*	*1s*	.....	.....	*Green, marked "P9".*	*Year round.* **Chart:3447** **Edn 10/00**
444.5	*Millstone Creek light buoy P11*	*49 10 32.1* *123 56 14.4*	*Fl*	*G*	*4s*	.....	.....	*Green, marked "P11".*	*Year round.* **Chart:3447** **Edn 10/00**
445	*Bate Point light buoy P12*	*49 10 32.3* *123 56 07*	*Fl*	*R*	*4s*	.....	.....	*Red, marked "P12".*	*Year round.* **Chart:3447** **Edn 10/00**
445.1 G5497	Departure Bay Ferry Landing Fog Signal	49 11 41 123 57 21.8	.....	.....		.....	.....	.....	Year round. **Horn -** Blast 2s; sil. 28s. Operated by Ferry personnel when required for ferry movements only. **Chart:3447** **Edn 10/00**
445.5	*Departure Bay West Cardinal light buoy PW*	*49 11 48.4* *123 56 55.8*	*Q(9)*	*W*	*15s*	.....	.....	*Yellow, black and yellow, marked "PW".*	*Year round.* **Chart:3447** **Edn 10/00**
446 G5496	Jesse Island	On eastern extremity of island. 49 12 28.4 123 56 35.2	Q	R	1s	7.3	.....	White cylindrical tower, red band at top.	Year round. **Chart:3447** **Edn 10/00**
446.5	*Horswell Rock East Cardinal light buoy PL*	*Off reef, off Horswell Bluff.* *49 12 43.3* *123 55 57.3*	*Q(3)*	*W*	*10s*	.....	.....	*Black, yellow and black, marked "PL".*	*Year round.* **Chart:3447** **Edn 10/00**
447 G5498	Hudson Rocks	On summit of SW. islet. 49 13 25.5 123 55 40.6	Fl	W	4s	8.9	7	White cylindrical tower, red band at top.	Year round. **Chart:3447** **Edn 10/00**
447.2 G5499	Clarke Rock	On E. side of rock. 49 13 31.5 123 56 29.2	Fl	G	4s	5.7	.....	White cylindrical tower, green band at top.	Year round. **Chart:3447** **Edn 10/00**
464 G5525	Kunechin Islets	S. tip of largest island. 49 37 12.3 123 48 15.6	Fl(2)	W	6s	6.1	6	Mast.	Flash 0.5 s; eclipse 1 s; flash 0.5 s; eclipse 4 s. Year round. **Chart:3512** **Edn 10/00**
465 G5526	Point Upwood	On southeastern extreme of Texada Island. 49 29 19.4 124 08 28.9	Fl(3)	W	12s	11.0	7	White cylindrical tower, red band at top.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3512** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
465.5 G5526.4	Texada Island	At Partington Point. 49 31 42.1 124 13 35.9	Fl	R	4s	8.2	5	White cylindrical tower, red band at top.	Year round. **Chart:3512** **Edn 10/00**
466 G5527	Fegan Islets	W. entrance to Sabine Channel. 49 31 56.2 124 23 00.6	Fl	W	4s	7.9	7	White cylindrical tower.	Year round. **Chart:3512** **Edn 10/00**
490 G5508	**Ballenas Islands**	On N. point of North Ballenas Island. 49 21 02 124 09 36.8	Fl	W	10s	21.3 8.2	**15**	White tower.	Flash 0.5 s; eclipse 9.5 s. Visible from 040° through E., S. and W. to 307°. Emergency light. Year round. **Chart:3512** **Edn 10/00**
490.3 G5508.5	Sangster Island Sector	SW. tip of island. 49 25 25.3 124 11 34.9	Fl	W-R	4s	16.5	5	White cylindrical tower.	Red sector visible from 267° through W. to 300°. Year round. **Chart:3512** **Edn 10/00**
491 G5509	French Creek	Near outer end of W. breakwater. 49 21 05.8 124 21 16.7	Q	R	1s	5.8	5	Mast.	Year round. **Chart:3512** **Edn 10/00**
493 G5529	**Sisters Islets**	On easterly and largest rock. 49 29 12.3 124 26 05.2	Fl(2)	W	15s	21.3	**21**	White cylindrical tower.	Emergency light. Year round. **Chart:3513** **Edn 10/00**
495 G5532		49 28 21 124 41 02	F	Y		14.0	12	Mast, red daymark, white vertical stripe.	Visible in line of range. Year round.
496 G5532.1	Chrome (Yellow) Island range	097°45' 93.3m from front.	Fl Fl	Y W	5s 5s	22.0	....	White cylindrical tower. 7.6	Flash 0.22 s; eclipse 4.78 s. Yellow light visible in line of range. Year round. **Chart:3527** **Edn 10/00**
508 G5549	Comox Aeronautical Beacon	49 42 54 124 53 03.3	Fl	W	10s	.....	.....	.....	Flash every 10 s. Year round. **Chart:3527** **Edn 10/00**
509 G5566	Kuhushan Point	On the point. 49 53 19.3 125 07 23.2	Fl(2)	W	6s	17.7	11	White square skeleton tower.	Flash 0.5 s; eclipse 1 s; flash 0.5 s; eclipse 4 s. Year round. **Chart:3513** **Edn 10/00**
509.5	*Sentry Shoals ODAS light buoy 46131*	*49 54 23.3* *124 59 11.2*	*Fl(5)*	*Y*	*20s*	.....	.....	*Yellow, marked "46131".*	*Year round.* **Chart:3513** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
516.5 G5587.3	Brown Bay	50 09 59.5 125 22 06.8	Fl	G	4s	7.2	5	White cylindrical tower, green band at top.	Year round. Obscured from 326° to 333°30'. **Chart:3539** **Edn 10/00**
533 G5603	Helmcken Island South Sector	On S. side of island. 50 23 38.4 125 52 17.7	Q	W-R	1s	9.4	.....	White cylindrical tower. 5.7	Red 274° to 280°30', white 280°30' through N. and E. to 114°20' red 114°20' to 122°20'. Year round. **Chart:3544** **Edn 10/00**
544 G5613	Boat Bay	W. of bay. 50 31 10.2 126 34 41.8	Q	W	1s	10.7	6	White cylindrical tower, red band at top.	Obscured by high land northward of 102°. Year round. **Chart:3545** **Edn 10/00**
591 G5678	Fog Rocks	On the largest rock, Fisher Channel. 51 58 21 127 55 02	Fl	W	4s	7.2	10	Square skeleton tower.	Year round. **Chart:3785** **Edn 10/00**
625	*Wilson Rock light and bell buoy E75*	*52 40 00* *128 57 55*	*Fl*	*G*	*4s*	.....	.....	*Green, marked "E75".*	*Year round.* **Chart:3737** **Edn 10/00**
630.1	Dupont Island South	52 56 18 129 26 18	Fl(3)	W	12s	5.5	10	White cylindrical tower.	Year round. **Chart:3724** **Edn 10/00**
631 G5735.6	Jacinto Islands **Racon - - . - (Q)** **X & S Band**	SE. end of island. 52 56 29.7 129 36 44.1	Fl	W	4s	28.0	10	White cylindrical tower.	Year round. **Chart:3723** **Edn 10/00**
633 G5736.2	Levy Point	On NE. end of Ashdown Island. 53 04 40.8 129 12 03	Fl	R	6s	4.7	4	Square skeleton tower.	Year round. **Chart:3742** **Edn 10/00**
639.8 G5719.4	Reef Point Sector	52 37 06.7 128 30 49.1	Q	W-R	1s	4.9	4	Square skeleton tower.	White 354° through N. to 074° ; red 074° through E. to 099°. Year round. **Chart:3711** **Edn 10/00**
641.5 G5722.4	Tolmie Channel Sector	52 41 21 128 32 37.8	Q	W-R	1s	5.5	4	White cylindrical tower.	White 325° to 357°; red 357° through N. to 009°; white 009° through E. to 152°. Year round. **Chart:3734** **Edn 10/00**
642 G5723	Tenas Island	On NW. side of island. 52 42 29.1 128 33 08	Fl	R	6s	8.1	4	Square skeleton tower.	Year round. **Chart:3734** **Edn 10/00**

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

PACIFIC

644 G5727	Quarry Point	On point, E. side of Princess Royal Island. 52 54 01 128 31 15	Fl	G	6s	4.9	4	Square skeleton tower.	Year round. **Chart:3738** **Edn 10/00**
651.2 G5739.5	Hartley Bay breakwater	53 25 26.5 129 14 57.3	Q	R	1s	7.9	3	Square skeleton tower.	Year round. **Chart:3711** **Edn 10/00**
651.5 G5740.5	Harbour Rock	Stewart Narrows. 53 23 16.9 129 16 32.4	Fl	G	4s	3.3	4	Square skeleton tower.	Year round. **Chart:3711** **Edn 10/00**
665.3	Fin Rock	53 13 57.9 129 21 33.1	Fl(3)	G	12s	6.1	4	Square skeleton tower.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3742** **Edn 10/00**
665.4	Blackrock Point	53 12 28 129 20 33	Fl(3)	R	12s	6.6	4	Square skeleton tower.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3742** **Edn 10/00**
736 G5749.5	Larsen Harbour	On Westerly end of Banks Island. 53 37 45 130 32 18	Q	R	1s	5.4	3	Square skeleton tower.	Year round. **Chart:3747** **Edn 10/00**
740 G5747	Otter Passage	S. end of Man Island. 53 07 42 129 46 20	Fl(3)	W	12s	13.3	6	White cylindrical mast.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3742** **Edn 10/00**
775 G5834	Low Island	On the NW. end of the northernmost Low Island. 52 54 44.2 131 32 24	Fl	W	6s	16.8	6	White cylindrical tower.	Year round. **Chart:3807** **Edn 10/00**
776 G5834.2	Haswell Island	S. side of island. 52 51 38.2 131 41 12	Fl(3)	W	12s	8.2	6	Square skeleton tower.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3807** **Edn 10/00**
777 G5834.6	Selwyn Point	Eastern extremity of point. 52 51 42.2 131 50 47	Fl	W	6s	5.2	6	Square skeleton tower.	Flash 0.5 s; eclipse 5.5 s. Year round. **Chart:3807** **Edn 10/00**

No.	Name	Position ----- Latitude N. Longitude W.	Light Characteristics			Focal Height in m. above water	Nominal Range	Description ----- Height in meters above ground	Remarks ----- Fog Signals
PACIFIC									
809 G5861	Davidson Point	On N. side of entrance to Tasu Sound. 52 44 31.1 132 06 48	Fl	W	6s	37.3	7	White cylindrical tower.	Flash 0.5 s; eclipse 5.5 s. Year round. **Chart:3859** **Edn 10/00**
809.3	Tasu Narrows	52 44 38.1 132 06 30	Fl	G	4s	14.2	.....	Square skeleton tower.	Year round. **Chart:3859** **Edn 10/00**
810 G5862	Tasu Sound	On point inside entrance, on S. side. 52 44 56.1 132 05 47	Fl(3)	W	12s	8.1	6	Square skeleton tower.	Flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 2 s; flash 0.5 s; eclipse 6.5 s. Year round. **Chart:3859** **Edn 10/00**
810.2 G5863	Horn Island	N. tip of island. 52 46 08.1 132 03 29	Fl	W	6s	4.8	6	Square skeleton tower.	Year round. **Chart:3859** **Edn 10/00**
819	*Beaver Island Reef light buoy*	*54 28 12.5* *124 29 51.5*	*Fl*	*G*	*4s*	.....	.....	*Green boat type.*	*Seasonal.* **Chart:3080** **Edn 10/00**
845	Takla Narrows	55 10 03 125 43 00	Fl	R	4s	4.6	.....	Mast. 3.0	Seasonal. Flash 0.5 s; eclipse 3.5 s **Chart:N/A** **Edn 10/00**

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/M No. _____of 2000)*_____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, Navigation Systems
Canadian Coast Guard
Department of Fisheries and Oceans
Ottawa, Ontario, K1A 0E6

In the case of information Canadian navigational aids or the List Department 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.