U.S. Department of
Homeland Security

United States
Coast Guard

LIGHT LIST

Volume VII

GREAT LAKES

Great Lakes and the St. Lawrence River
above the St. Regis River

This publication contains a list of lights, sound signals, buoys, daybeacons, and other aids to navigation.

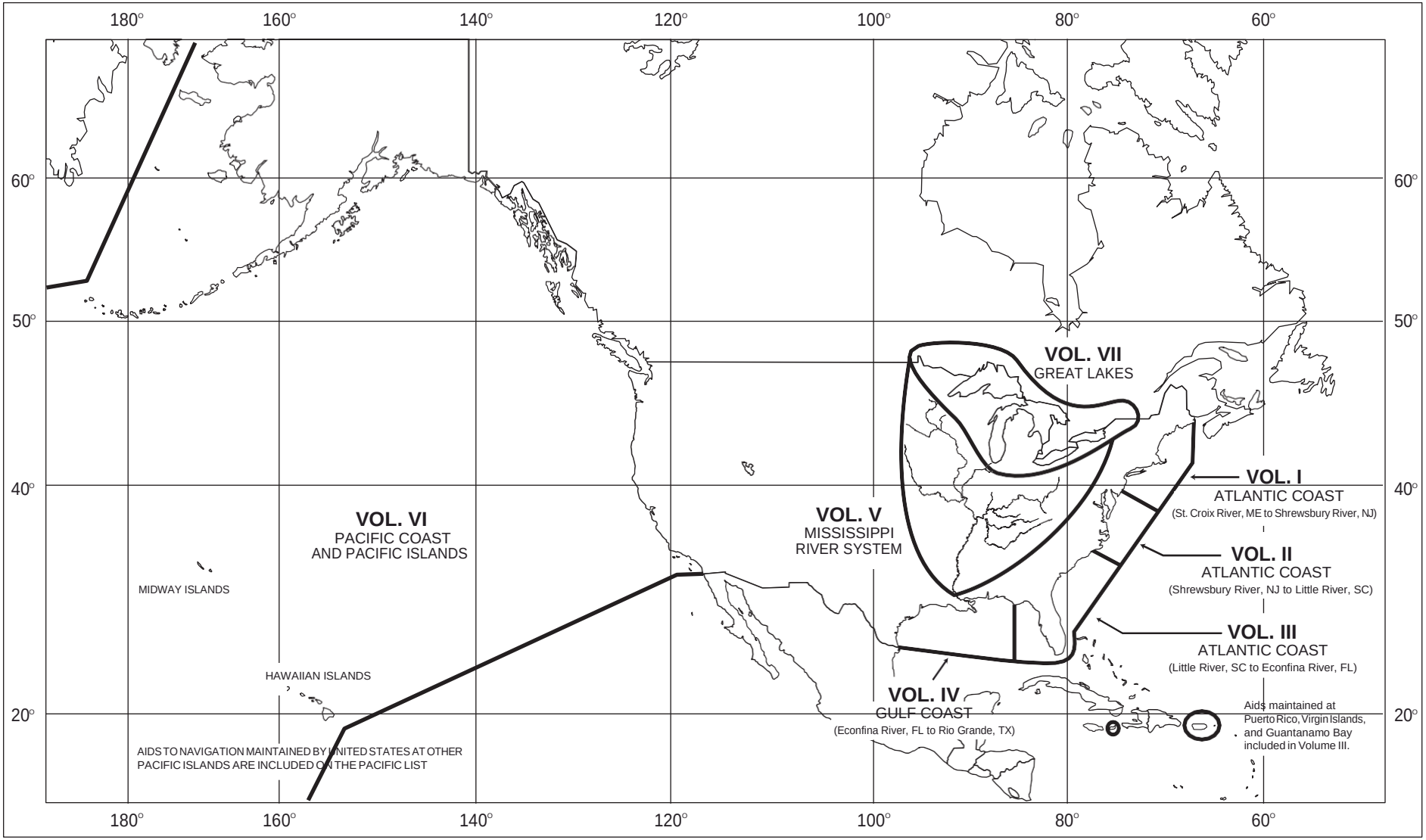
IMPORTANT
THIS PUBLICATION SHOULD BE CORRECTED EACH WEEK FROM THE LOCAL NOTICES TO MARINERS OR NOTICES TO MARINERS AS APPROPRIATE.

2020

COMDTPUB P16502.7

LIMITS OF LIGHT LISTS PUBLISHED BY

U.S. COAST GUARD



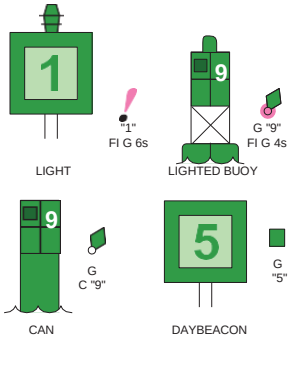
U.S. AIDS TO NAVIGATION SYSTEM
on navigable waters except Western Rivers

LATERAL SYSTEM AS SEEN ENTERING FROM SEAWARD

PORT SIDE
ODD NUMBERED AIDS

GREEN LIGHT ONLY

FLASHING (2)
FLASHING
OCCULTING
QUICK FLASHING
ISO

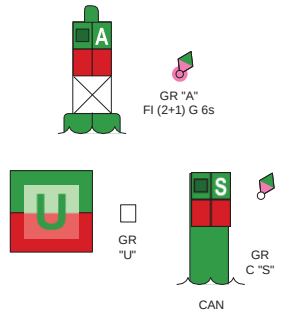


PREFERRED CHANNEL
NO NUMBERS - MAY BE LETTERED

PREFERRED
CHANNEL TO
STARBOARD
TOPMOST BAND
GREEN

GREEN LIGHT ONLY

COMPOSITE GROUP FLASHING (2+1)

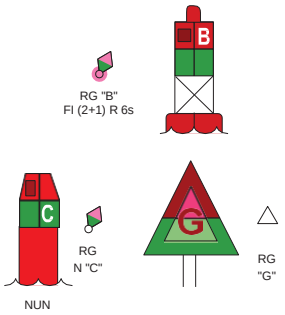


PREFERRED CHANNEL
NO NUMBERS - MAY BE LETTERED

PREFERRED
CHANNEL TO
PORT
TOPMOST BAND
RED

RED LIGHT ONLY

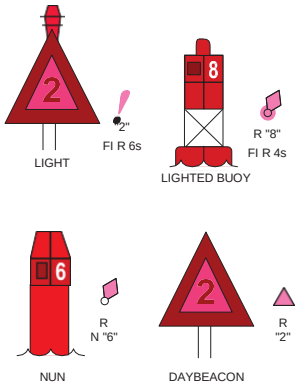
COMPOSITE GROUP FLASHING (2+1)



STARBOARD SIDE
EVEN NUMBERED AIDS

RED LIGHT ONLY

FLASHING (2)
FLASHING
OCCULTING
QUICK FLASHING
ISO

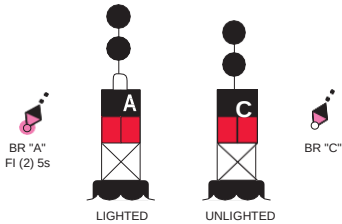


AIDS TO NAVIGATION HAVING NO LATERAL SIGNIFICANCE

ISOLATED DANGER
NO NUMBERS - MAY BE LETTERED

WHITE LIGHT ONLY

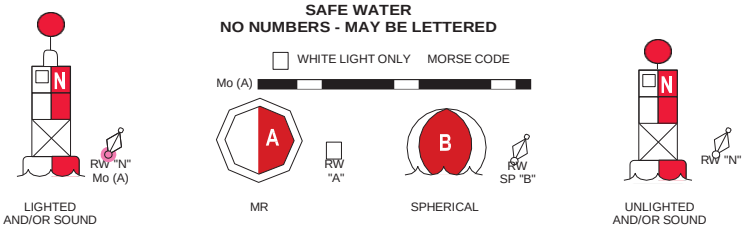
Fl (2) 5s



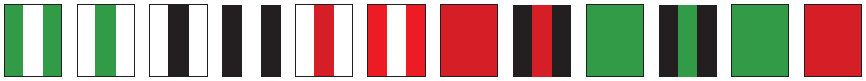
SAFE WATER
NO NUMBERS - MAY BE LETTERED

WHITE LIGHT ONLY MORSE CODE

Mo (A)

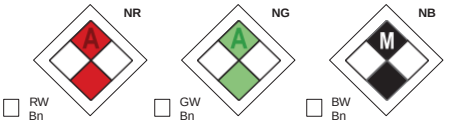


RANGE DAYBOARDS MAY BE LETTERED



DAYBOARDS - MAY BE LETTERED

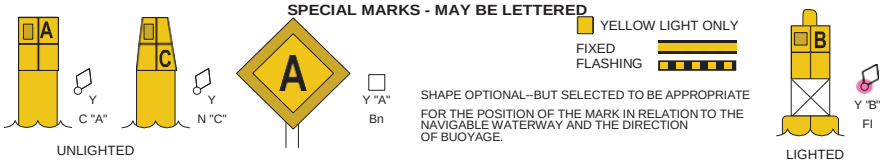
WHITE LIGHT ONLY



SPECIAL MARKS - MAY BE LETTERED

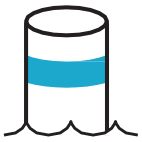
YELLOW LIGHT ONLY

FIXED
FLASHING



SHAPE OPTIONAL--BUT SELECTED TO BE APPROPRIATE FOR THE POSITION OF THE MARK IN RELATION TO THE NAVIGABLE WATERWAY AND THE DIRECTION OF BUOYAGE.

Aids to Navigation marking the Intracoastal Waterway (ICW) display unique yellow symbols to distinguish them from aids marking other waters. Yellow triangles ▲ indicate aids should be passed by keeping them on the starboard (right) hand of the vessel. Yellow squares ■ indicate aids should be passed by keeping them on the port (left) hand of the vessel. A yellow horizontal band ▬ provides no lateral information, but simply identifies aids as marking the ICW.



MOORING
BUOY

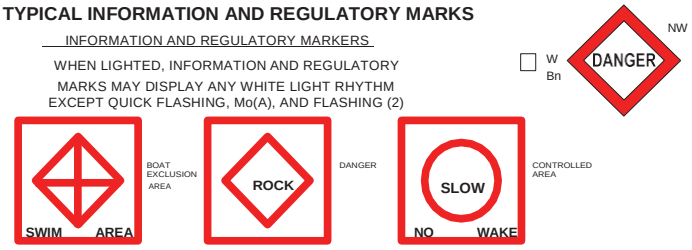
WHITE WITH BLUE BAND

MAY SHOW WHITE
REFLECTOR OR LIGHT

TYPICAL INFORMATION AND REGULATORY MARKS

INFORMATION AND REGULATORY MARKERS

WHEN LIGHTED, INFORMATION AND REGULATORY MARKS MAY DISPLAY ANY WHITE LIGHT RHYTHM EXCEPT QUICK FLASHING, Mo(A), AND FLASHING (2)



EXPLAINATION MAY BE PLACED OUTSIDE THE CROSSED DIAMOND SHAPE, SUCH AS DAM, RAPIDS, SWIMAREA, ETC.

THE NATURE OF DANGER MAY BE INDICATED INSIDE THE DIAMOND SHAPE, SUCH AS ROCK, WRECK, SHOAL, DAM, ETC.

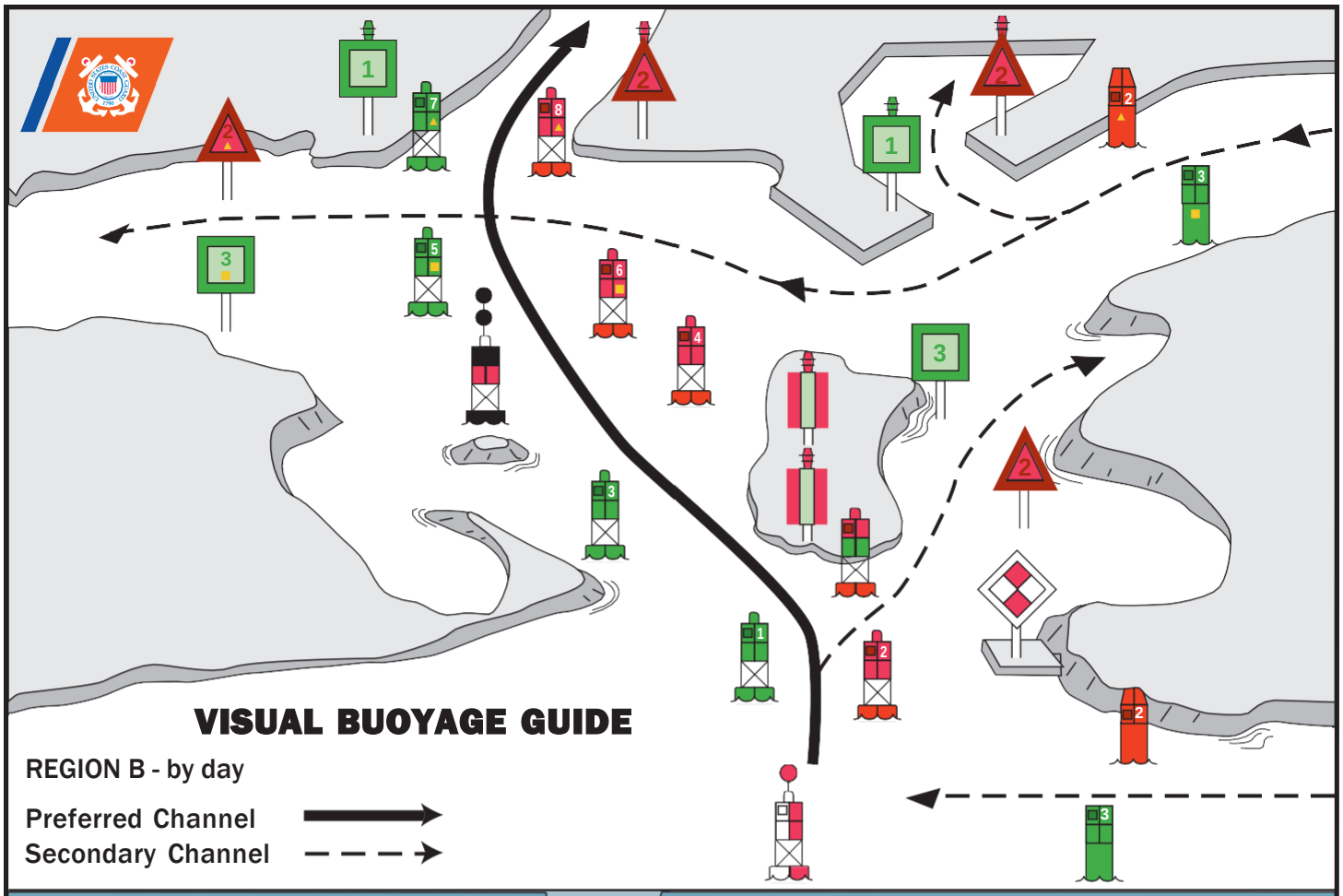
TYPE OF CONTROL IS INDICATED IN THE CIRCLE, SUCH AS SLOW, NO WAKE, ANCHORING, ETC.

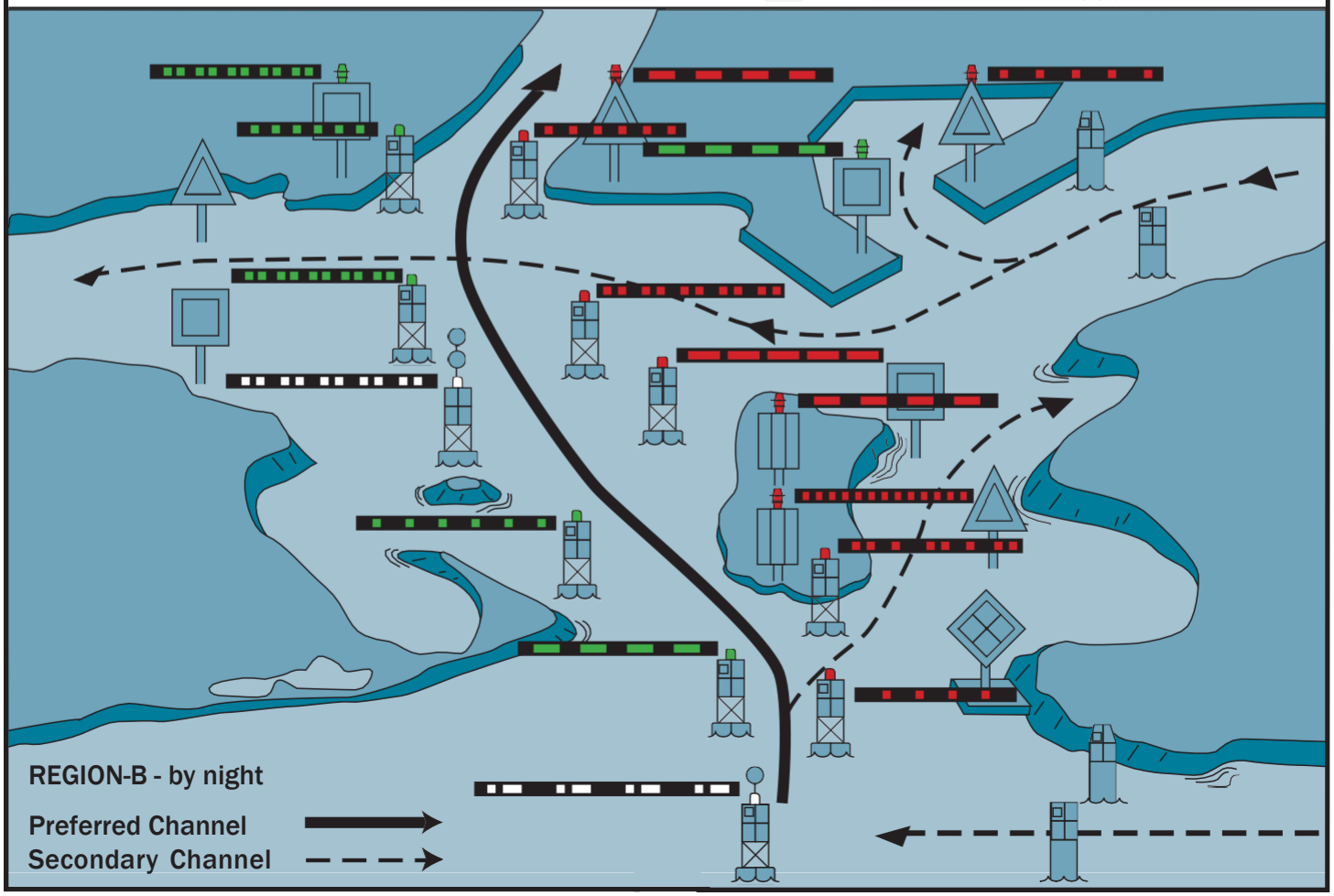
FOR DISPLAYING INFORMATION SUCH AS DIRECTIONS, DISTANCES, LOCATIONS, ETC.

BUOY USED TO DISPLAY REGULATORY MARKERS

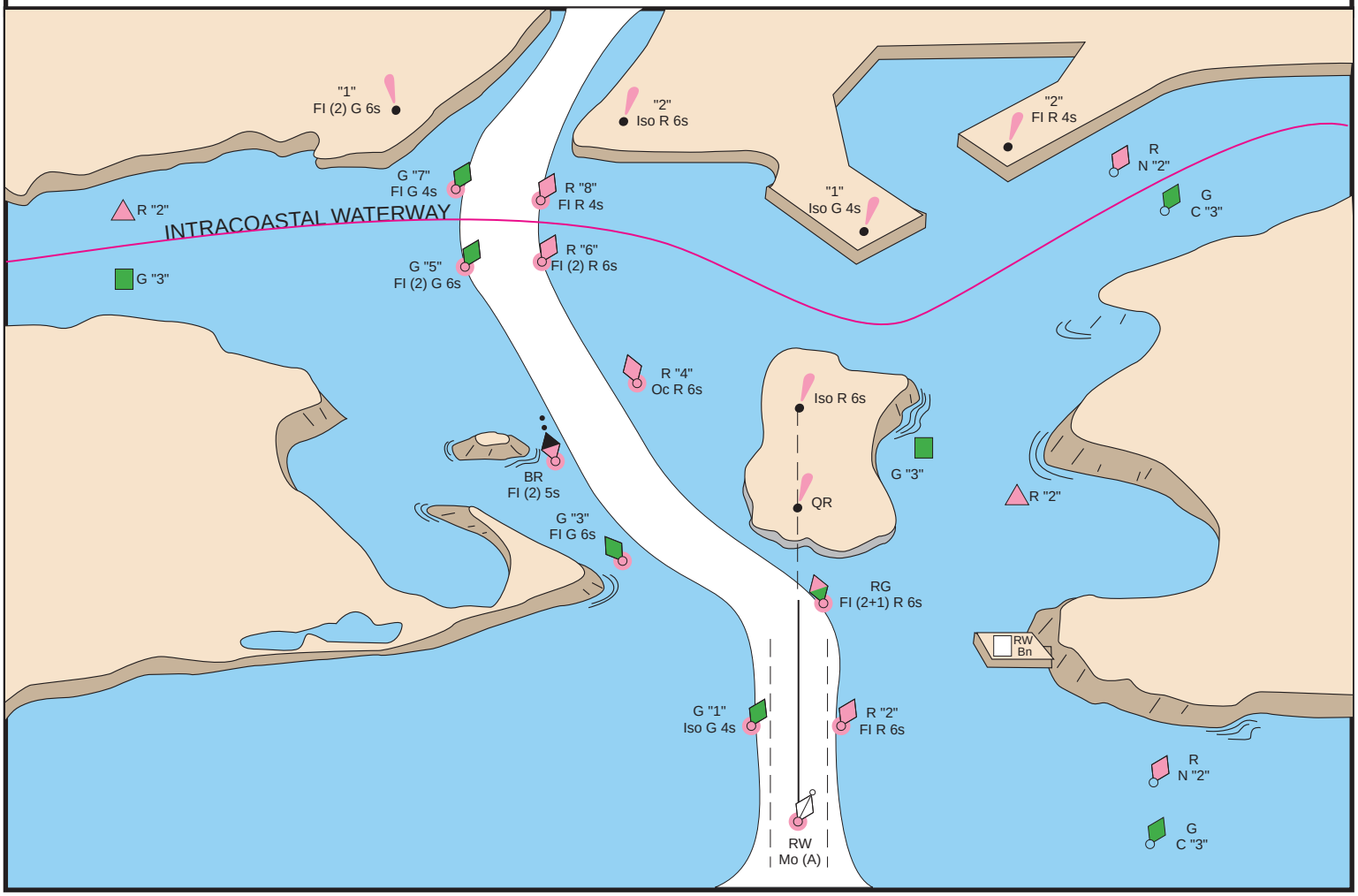
MAY SHOW WHITE LIGHT MAY BE LETTERED

PLATE 1


VISUAL BUOYAGE GUIDE
REGION B - by day
Preferred Channel
Secondary Channel


REGION-B - by night
Preferred Channel
Secondary Channel

FICTITIOUS NAUTICAL CHART



U.S. AIDS TO NAVIGATION SYSTEM

on the Western River System

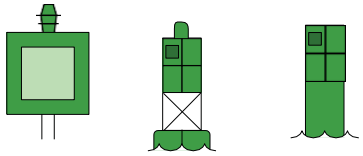
AS SEEN ENTERING FROM SEAWARD

PORT SIDE

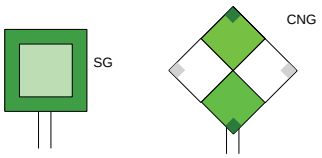
OR R IG HT DE S C E NDING B ANK

GREEN OR WHITE LIGHTS

FLASHING
ISO



LIGHT LIGHTED BUOY CAN



PASSING DAYBEACON CROSSING DAYBEACON

176.9

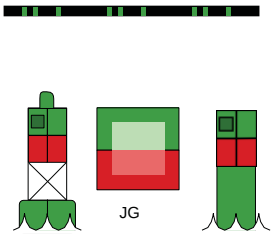
MILE BOARD

PREFERRED CHANNEL

MARK JUNCTIONS AND OBSTRUCTIONS
COMPOSITE GROUP FLASHING (2+1)

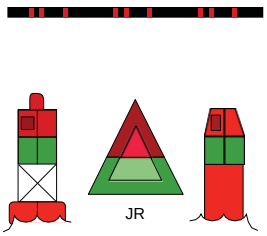
P R E F E R R E D C H A N N E L
TO S T A R B O A R D
TOPMOST BAND GREEN

FI (2+1) G



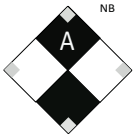
P R E F E R R E D C H A N N E L
TO P O R T
TOPMOST BAND RED

FI (2+1) R



DAYBOARDS HAVING NO LATERAL SIGNIFICANCE

MAY BE LETTERED WHITE LIGHT ONLY

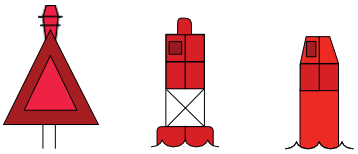


STARBOARD SIDE

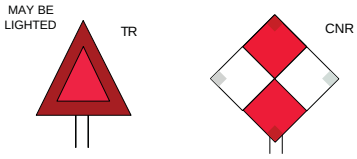
OR LE FT DE S C E NDING B ANK

RED OR WHITE LIGHTS

FLASHING (2)
ISO



LIGHT LIGHTED BUOY NUN

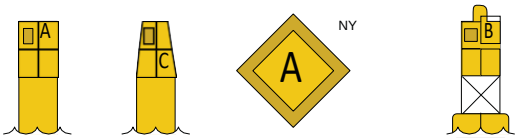


PASSING DAYBEACON CROSSING DAYBEACON

123.5

MILE BOARD

SPECIAL MARKS--MAY BE LETTERED



UNLIGHTED LIGHTED

SHAPE: OPTIONAL--BUT SELECTED TO BE APPROPRIATE FOR THE POSITION OF THE MARK IN RELA TION TO THE NAVIGABLE WATERWAY AND THE DIRECTION OF BUOYAGE.

YELLOW LIGHT ONLY
FIXED
FLASHING

MOORING BUOY
WHITE WITH BLUE BAND

MAY SHOW WHITE REFLECTOR OR LIGHT

TYPICAL INFORMATION AND REGULATORY MARKS

INFORMATION AND REGULATORY MARKERS

WHEN LIGHTED, INFORMATION AND REGULATORY MARKS MAY DISPLAY ANY LIGHT RHYTHM EXCEPT QUICK FLASHING, Mo(a) AND FLASHING (2)

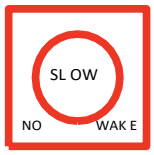
NW WHITE LIGHT ONLY

BOAT EXCLUSION AREA

EXPLAINATION MAY BE PLACED OUTSIDE THE CROSSED DIAMOND SHAPE, SUCH AS DAM, RAPIDS, SWIM AREA, ETC.

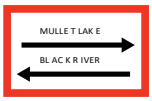
DANGER

THE NATURE OF DANGER MAY BE INDICATED INSIDE THE DIAMOND SHAPE, SUCH AS ROCK, WRECK, SHOAL, DAM, ETC.



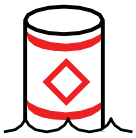
CONTROLLED AREA

TYPE OF CONTROL IS INDICATED IN THE CIRCLE, SUCH AS SLOW, NO WAKE, ANCHORING, ETC.



INFORMATION

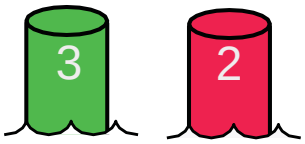
FOR DISPLAYING INFORMATION SUCH AS DIRECTIONS, DISTANCES, LOCATIONS, ETC.



BUOY USED TO DISPLAY REGULATORY MARKERS

MAY SHOW WHITE LIGHT
MAY BE LETTERED

STATE WATERS



INLAND (S TATE) WATE R S OB S TR UC TION MAR K

MAY SHOW WHITE
REFLECTOR OR QUICK FLASHING WHITE LIGHT

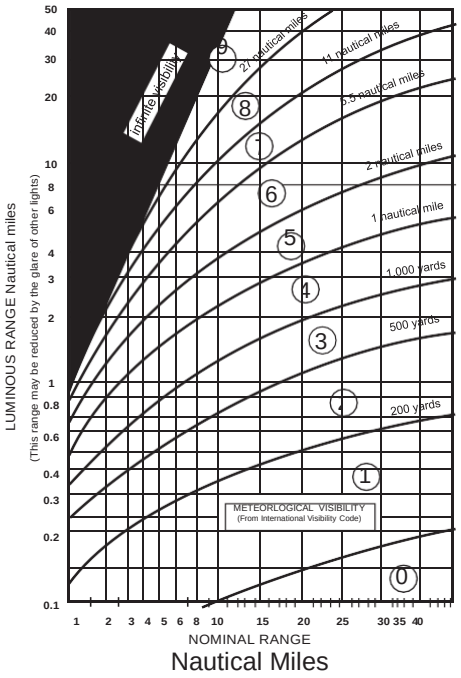
BLACK-STRIPED
WHITE BUOY

Used to indicate an obstruction to navigation, extends from the nearest shore to the buoy. This means "do not pass between the buoy and the nearest shore." This aid is replacing the red and white striped buoy within the USWMS, but cannot be used until all red and white striped buoys on a waterway have been replaced.

LUMINOUS RANGE DIAGRAM

The nominal range given in this Light List is the maximum distance a given light can be seen when the meteorological visibility is 10 nautical miles. If the existing visibility is less than 10 NM, the range at which the light can be seen will be reduced below its nominal range. And, if the visibility is greater than 10 NM, the light can be seen at greater distances. The distance at which a light may be expected to be seen in the prevailing visibility is called its luminous range.

This diagram enables the mariner to determine the approximate luminous range of a light when the nominal range and the prevailing meteorological visibility are known. The diagram is entered from the bottom border using the nominal range listed in column 6 of this book. The intersection of the nominal range with the appropriate visibility curve (or, more often, a point between two curves) yields, by moving horizontally to the left border, the luminous range.



METEOROLOGICAL VISIBILITY

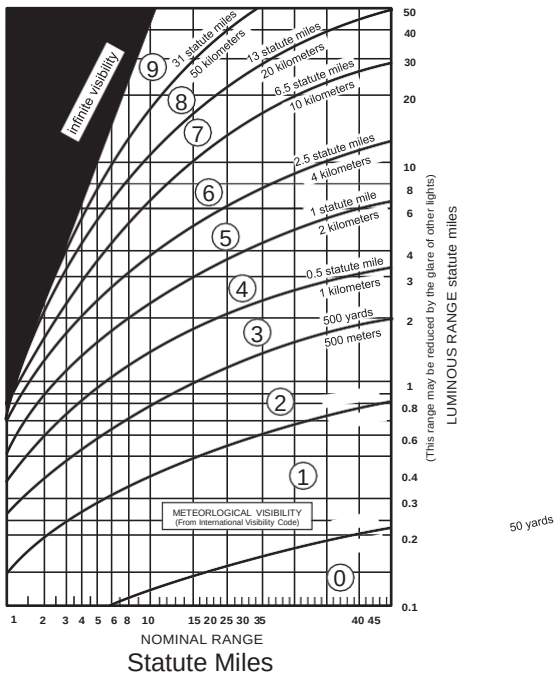
(From International Visibility Code)

Code	Metric	Nautical (approximate)
0	less than 50 meters	less than 50 yards
1	50-200 meters	50-200 yards
2	200-500 meters	200-500 yards
3	500-1,000 meters	500-1,000 yards
4	1-2 kilometers	1,000-2,000 yards
5	2-4 kilometers	1-2 nautical miles
6	4-10 kilometers	2-5.5 nautical miles
7	10-20 kilometers	5.5-11 nautical miles
8	20-50 kilometers	11-27 nautical miles
9	greater than 50 km	greater than 27 nm

CAUTION

When using this diagram it must be remembered that:

1. The ranges obtained are approximate.
2. The transparency of the atmosphere may vary between observer and light.
3. Glare from background lighting will reduce the range that lights are sighted.
4. The rolling motion of a vessel and/or of a lighted aid may reduce the distance that lights can be detected or identified.



GEOGRAPHIC RANGE TABLE

The following table gives the approximate geographic range of visibility for an object which may be seen by an observer at sea level. It is necessary to add to the distance for the height of any object the distance corresponding to the height of the observer's eye above sea level.

Height Feet / Meters	Distance Nautical Miles (NM)	Height Feet / Meters	Distance Nautical Miles (NM)	Height Feet / Meters	Distance Nautical Miles (NM)
5/1.5	2.6	70/21.3	9.8	250/76.2	18.5
10/3.1	3.7	75/22.9	10.1	300/91.4	20.3
15/4.6	4.5	80/24.4	10.5	350/106.7	21.9
20/6.1	5.2	85/25.9	10.8	400/121.9	23.4
25/7.6	5.9	90/27.4	11.1	450/137.2	24.8
30/9.1	6.4	95/29.0	11.4	500/152.4	26.2
35/10.7	6.9	100/30.5	11.7	550/167.6	27.4
40/12.2	7.4	110/33.5	12.3	600/182.9	28.7
45/13.7	7.8	120/36.6	12.8	650/198.1	29.8
50/15.2	8.3	130/39.6	13.3	700/213.4	31.0
55/16.8	8.7	140/42.7	13.8	800/243.8	33.1
60/18.3	9.1	150/45.7	14.3	900/274.3	35.1
65/19.8	9.4	200/61.0	16.5	1000/304.8	37.0

Example: Determine the geographic visibility of an object, with a height above water of 65 feet, for an observer with a height of eye of 35 feet.

Enter above table;

Height of object 65 feet= 9.4 NM
Height of observer 35 feet= 6.9 NM
Computed geographic visibility= 16.3 NM

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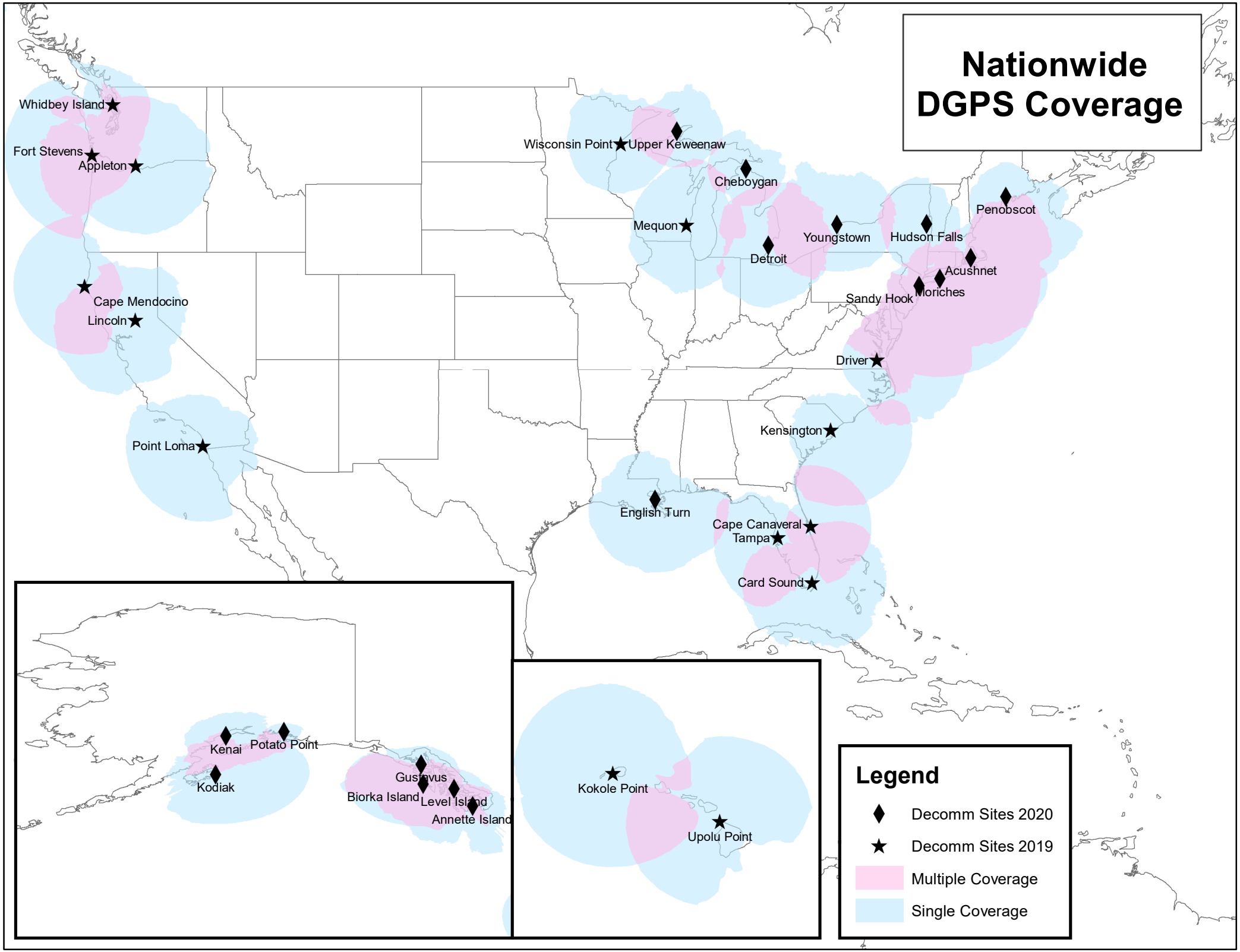
Nationwide DGPS Coverage
Whidbey Island
Fort Stevens
Appleton
Cape Mendocino
Lincoln
Point Loma
Wisconsin Point
Upper Keweenaw
Cheboygan
Mequon
Detroit
Youngstown
Hudson Falls
Penobscot
Acushnet
Moriches
Sandy Hook
Driver
Kensington
English Turn
Cape Canaveral
Tampa
Card Sound
Kenai
Potato Point
Kodiak
Gustavus
Biorka Island
Level Island
Annette Island
Kokole Point
Upolu Point
Legend
Decomm Sites 2020
Decomm Sites 2019
Multiple Coverage
Single Coverage

COAST GUARD DISTRICTCOMMANDERS

DISTRICT	ADDRESS	WATERS OF JURISDICTION
FIRST	408 Atlantic Avenue Boston, MA 02110-3350 Tel: 617-223-8356 http://www.uscg.mil/d1	Maine, New Hampshire, Massachusetts, Vermont (Lake Champlain), Rhode Island, Connecticut, New York, to Shrewsbury River, New Jersey.
FIFTH	Federal Building 431 Crawford Street Portsmouth, VA 23704-5004 Tel: (757) 398-6486 (757) 398-6552 http://www.uscg.mil/d5	Shrewsbury River, New Jersey to Delaware, Maryland, Virginia, District of Columbia, and North Carolina.
SEVENTH	Brickell Plaza Federal Building 909 SE 1st Avenue; Rm:406 Miami, FL 33131-3050 Tel: (305) 415-6752 (305) 415-6800 http://www.uscg.mil/d7	South Carolina, Georgia, Florida to 83°50'W, and Puerto Rico and adjacent islands of the United States.
EIGHTH	Hale Boggs Federal Building 500 Poydras Street New Orleans, LA 70130-3310 Tel: (504) 671-2327 (504) 671-2137 http://www.uscg.mil/d8	Florida westward from 83°50'W, Alabama, Mississippi, Louisiana, Texas, the Mississippi River System except that portion of the Illinois River north of Joliet, Illinois.
NINTH	1240 East 9th Street Cleveland, OH 44199-2060 Tel: (216) 902-6060 (216) 902-6117 http://www.uscg.mil/d9	Great Lakes and St. Lawrence River above St. Regis River.
ELEVENTH	Coast Guard Island Building 50-2 Alameda, CA 94501-5100 Tel: (510) 437-2975 http://www.uscg.mil/d11	California, Nevada, Utah, Arizona.
THIRTEENTH	Federal Building 915 Second Avenue 35th Floor, Rm3510 Seattle, WA 98174-1067 Tel: (206) 220-7270 (206) 220-7004 http://www.uscg.mil/d13	Oregon, Washington, Idaho, and Montana.
FOURTEENTH	Prince Kalanianaole Federal Bldg. 300 Ala Moana Blvd 9th Floor, Room 9-220 Honolulu, HI 96850-4982 Tel: (808) 535-3409 (808) 535-3414 http://www.uscg.mil/d14	Hawaiian, American Samoa, Marshall, Marianas, and Caroline Islands.
SEVENTEENTH	PO Box 25517 Juneau, AK 99802-5517 Tel: (907) 463-2029 (907) 463-2269 http://www.uscg.mil/d17	Alaska.

U. S. COAST GUARD NINTH DISTRICT

UNIT LISTING

AIDS TO NAVIGATION TEAMS

ANT BUFFALO 1 Furmann Blvd. Buffalo, NY 4203-3189 Tel: (716) 843-9551	**ANT DETROIT** 110 Mt. Elliott Ave Detroit, MI 48207-4380 Tel: (313) 568-9538	**ANT DULUTH** 1201 Minnesota Ave Duluth, MN 55802-2492 Tel: (218) 529-3115
ANT TWO RIVERS 13 East Street Two Rivers, WI 54241 Tel: (920) 793-2260	**ANT SAULT STE MARIE** 1732 West 22nd St Sault Ste. Marie, MI 49783 Tel: (906) 632-7290	**ANT MUSKEGON** 1453 Beach St. Muskegon, MI 49441-1082 Tel: (231 759-8581
ANT SAGINAW RIVER 2405 Weadock Road Essexville, MI 48732-9602 Tel: (989) 894-0412		

BUOY TENDERS

USCGC ALDER (WLB-216) 1201 Minnesota Ave Duluth, MN 55802-2492 Tel; (218) 529-3131	**USCGC BRISTOL BAY (WTGB-102)** 110 Mt. Elliott Ave Detroit, MI 48207-4380 Tel: (313) 568-9548
USCGC BUCKTHORN (WLI-642) 337 Water St. Sault Ste. Marie, MI 49783-9501 Tel: (906) 635-3288/89	**USCGC HOLLYHOCK (WLB-214)** 2700 Omar St Port Huron, MI 48060-8519 Tel: (810) 982-2684/86
USCGC MACKINAW (WLBB-30) 632 Coast Guard Dr. Cheboygan, MI 49721-1299 Tel: (231) 597-2030	**USCGC MOBILE BAY (WTGB-103)** Po Box 287 Sturgeon Bay, WI 54235-0287 Tel: (920) 743-2646

USCG NAVIGATION CENTER
Navigation Information Service (NIS)

The U.S. Coast Guard Navigation Center (NAVCEN) is the official government source of information for civil users of the Global Positioning System (GPS). The Navigation Information Service (NIS) is available 24 hours a day, seven days a week, for all Radio Navigation and maritime related needs via phone, fax or e-mail. The NIS provides users the ability to access real time or archived GPS, NDGPS, DGPS, and LNM information at http://www.navcen.uscg.gov, as well as subscribe to an automated list service which enables users to receive GPS status messages and Notice to NAVSTAR User (NANU) messages via direct Internet e-mail.

The NAVCEN also disseminates GPS and DGPS safety advisory broadcast messages through USCG broadcast stations utilizing VHF-FM voice, HF-SSB voice, and NAVTEX broadcasts. The broadcasts provide the GPS and DGPS user in the marine environment with the current status of the navigation systems, as well as any planned/unplanned system outages that could affect GPS and DGPS navigational accuracy.

To comment on any of these services or ask questions about the service offered, contact the NAVCEN at:

Commanding Officer
U.S. Coast Guard NAVCEN (NIS) MS 7310
7323 Telegraph Road
Alexandria, VA 20598-7310
Phone: (703) 313-5900
FAX: (703) 313-5920
Internet: http://www.navcen.uscg.gov

This Light List is corrected through Ninth Coast Guard District Local Notice to Mariners **No. 53/19**

and through National Geospatial-Intelligence Agency (NGA) Notice to Mariners No. 53/19

The 2020 edition supersedes the 2019 edition.

RECORD OF CORRECTIONS

YEAR 2020

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YEAR 2021

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PREFACE

Lights and other marine aids to navigation, maintained by or under authority of the U.S. Coast Guard and located on waters used by general navigation, are described in the Light List. This volume includes aids located on the waters of the Great Lakes.

Included are all Coast Guard aids to navigation used for general navigation such as lights, sound signals, buoys, daybeacons, and other aids to navigation. Not included are some buoys having no lateral significance, such as special purpose, anchorage, fish net, and dredging.

Aids to Navigation Link: http://www.uscgboating.org/ATON/index.html

CAUTION: Mariners attempting to pass a buoy close aboard risk collision with a yawing buoy or with the obstruction, which the buoy marks. Mariners must not rely on buoys alone for determining their positions due to factors limiting buoy reliability.

PRIVATE AIDS TO NAVIGATION

Included: Class I aids to navigation on marine structures or other works which the owners are legally obligated to establish, maintain, and operate as prescribed by the Coast Guard.

Included: Class II aids to navigation exclusive of Class I, located in waters used by general navigation.

Not included: Class III aids to navigation exclusive of Class I and Class II, located in waters not ordinarily used by general navigation.

LIGHT LIST AVAILABILITY

This Light List is published electronically annually and is intended to furnish more complete information concerning aids to navigation than can be conveniently shown on charts. This Light List is not intended to be used in place of charts or Coast Pilots. Charts should be consulted for the location of all aids to navigation. It may be dangerous to use aids to navigation without reference to charts.

This list is corrected to the date of the notices to mariners shown on the title page. Changes to aids to navigation during the year are advertised in U.S. Coast Guard Local Notices to Mariners and National Geospatial-Intelligence Agency (NGA) Notices to Mariners. Important changes to aids to navigation are also broadcast through Coast Guard or Naval radio stations and NAVTEX. Mariners should keep their Light Lists, charts and other nautical publications corrected from these notices and should consult all notices issued after the date of publication of this Light List.

The electronic version of this publication is available at: http://www.navcen.uscg.gov/index.php?pageName=lightLists

A weekly-updated electronic copy of this publication is also available at:
http://www.navcen.uscg.gov/index.php?pageName=lightListWeeklyUpdates

IMPORTANT*:* A summary of corrections for this publication, which includes corrections from the dates shown on the title page to the date of availability, is advertised in the Local Notice to Mariners and the Notice to Mariners. These corrections must be applied in order to bring the Light List up-to-date. Additionally, this publication should be corrected weekly from the Local Notices to Mariners or the Notices to Mariners, as appropriate.

Mariners and others are requested to bring any apparent errors or omissions in these lists to the attention of:

COMMANDER (dpw)
Ninth Coast Guard District
1240 East Ninth, Street
Cleveland, OH 44199-2060
Telephone: (216) 902-2060
Email: D09-DG-District-D9-LocalNoticetoMariners@uscg.mil

or

USCG Navigation Center
Charting Branch
MS 7310
7323 Telegraph Road
Alexandria, VA 20598-7310
Email: TIS-PF-NISWS@USCG.MIL

INTRODUCTION

Light List Arrangement

In the context of the Light List, aids to navigation on the coasts are arranged in geographic order clockwise from north to south along to Atlantic coast, east to west along the Gulf of Mexico, and south to north along the Pacific coast. On the Great Lakes, aids to navigation are arranged from east to west and from south to north, except on Lake Michigan, which is arranged from north to south. Seacoast aids to navigation are listed first, followed by entrance and harbor aids to navigation, arranged from seaward to the head of navigation.

Names of aids to navigation are printed as follows to help distinguish at a glance the type of aid to navigation.

Seacoast/Lake coast Lights and
Secondary Lights RACONS
Sound Signals
RIVER, HARBOR, OTHER LIGHTS, AND VIRTUAL AIS
Lighted Buoys
Daybeacons, Unlighted Buoys, and Virtual Automatic Identification System (V-AIS) ATON

Light List numbers are assigned to all Federal aids to navigation and many private aids to navigation for reference in the Light List. Aids to navigation are numbered by fives in accordance with their order of appearance in each volume of the Light List. Other numbers and decimal fractions are assigned where newly established aids to navigation are listed between previously numbered aids to navigation. The Light Lists are renumbered periodically to assign whole numbers to all aids to navigation.

International numbers are assigned to certain aids to navigation in cooperation with the International Hydrographic Organization. They consist of an alphabetic character followed by three or four numeric characters. A cross reference listing appears after the index.

Description of Columns

Column (1): Light List Number.

Column (2): Name and location of the aid to navigation.

Note: A dash (-) is used to indicate the bold heading is part of the name of the aid to navigation. When reporting discrepancies or making references to such an aid to navigation in correspondence, the full name of the aid including the geographic heading, should be given.

Bearings are in degrees true, read clockwise from 000° through 359°.

Bearings on range lines are given in degrees and tenths or hundredths where applicable.

(C) indicates Canadian aid to navigation.

Column (3): Geographic position of the aid to navigation in latitude and longitude.

Column (4): Light characteristic for lighted aids to navigation.

Column (5): Height above water from the focal plane of the fixed light to mean high water, listed in feet.

For Volume 7 (Great Lakes), height above water from the focal plane of the fixed light to low water datum, listed in feet and meters.

Column (6): Nominal range of lighted aids to navigation, in statute miles, listed by color for sector and passing lights. Not listed for ranges, directional lights, or private aids to navigation.

Column (7): The structural characteristic of the aid to navigation, including: dayboard (if any), description of fixed structure, color and type of buoy, height of structure above ground for major lights.

Column (8): Aid remarks, sound signal characteristics, including: VHF-FM channel if remotely activated, RACON characteristic, light sector arc of visibility, radar reflector, emergency lights, seasonal remarks, and private aid to navigation identification. AIS specific information may include its unique Maritime Mobile Service Identity (MMSI), the MMSI(s) of its source AIS transmission, and the application identifier of any Application Specific Messages (ASM) it may also be transmitting.

U.S. Coast Guard Light List Distribution

U.S. Regulations require that most commercial vessels maintain on board a currently corrected, copy or pertinent extract, of the U.S. Coast Guard Light Lists which are available for free and are updated weekly on the Coast Guard Navigation Center's website at http://www.navcen.uscg.gov/?pageName=lightLists. Commercially printed versions are also available, but the Coast Guard does not attest to their veracity or sanction such publications.

CHARTS & PUBLICATIONS

Nautical Charts & Publications

Nautical charts covering the coastal waters of the United States and its territories are published by the National Ocean Service (NOS). Up-to-date paper copies of NOS charts are available from NOS Certified Agents. A list of agents can be found at: https://www.nauticalcharts.noaa.gov/charts/noaa-raster-charts.html#paper-nautical-charts. NOS also produces Raster Navigational Charts (RNC) and Electronic Navigational Charts (ENC). RNCs can be found at https://www.nauticalcharts.noaa.gov/charts/noaa-raster-charts.html#rnc-charts. ENCs can be found at https://nauticalcharts.noaa.gov/charts/noaa-enc.html.
Inland Electronic Navigational Charts (IENC) and chart books are published by the U.S. Army Corps of Engineers and are available online at https://www.sam.usace.army.mil/Missions/Civil-Works/Navigation/Navigation-Charts/. Tide Tables and Tidal Current Tables are no longer printed or distributed by NOS. NOS Tide and Tidal Current predictions are available online at http://tidesandcurrents.noaa.gov/tide_predictions.html. Commercially printed versions, using data provided by NOS, are also available. These products may be obtained from local stores that carry marine publications.

Notices to Mariners

Several maritime information products produced by the U. S. Government use some version of the name "Notice to Mariners". This section will describe each and explain how they can be obtained or accessed.
The **U.S. Notice to Mariners**, published weekly by the National Geospatial Intelligence Agency (NGA), is prepared jointly by the NGA, the U. S. Coast Guard, and the National Ocean Service. Its purpose is to provide corrections to U. S. nautical charts used by ocean-going vessels, and corrections for a variety of publications, including the U. S. Coast Pilot, NGA List of Lights, and the USCG Light List, among others. The Notice to Mariners also catalogues recent maritime safety information that has been distributed for the benefit of oceangoing vessels. These include NAVAREA Warnings, HYDROLANTS, HYDROPACS, AND HYDROARCS. Visit NGA at https://msi.nga.mil/NTM to obtain the latest and previous U. S. Notice to Mariners. For more information about such information is distributed worldwide through the Global Maritime Distress and Safety System (GMDSS), refer to NGA Publication 117: *https://msi.nga.mil › api › publications › download › Pub117bk.pdf*

Local Notice to Mariners are published weekly by each of the nine U. S. Coast Guard Districts, and provide the following information for waters within the District: the status of federal and private aids to navigation (such as discrepancies or temporary or proposed changes); special notices about maritime events, operations, and hazards; information about bridges; and, chart corrections for all National Ocean Service Charts in the District. Current and previous Local Notice to Mariners for each CG District can be found at the Coast Guard Navigation Center Website: https://www.navcen.uscg.gov/?pageName=lnmMain

Broadcast Notices to Mariners (BNM) are transmitted using voice over VHF radio (channel 22) by each Coast Guard District to communicate local information about hazards, emergent situations, and the status of federal aids to navigation. Broadcasts occur at scheduled times, or as needed, and are normally announced first on VHF channel 16, before transmission on channel 22. BNMs provide in near real-time much of the same information that will later be published in the Local Notice to Mariners. The Coast Guard has begun to also distribute BNMs via internet, for more timely and convenient delivery - including through email or RSS feeds available to wireless mobile devices. To see how this new service is being tested in the Fifth Coast Guard District, visit: https://www.navcen.uscg.gov/?pageName=feeds
Urgent broadcasts applicable to situations or locations beyond the range of VHF land stations and out to approximately 100 miles have also been broadcast via the medium frequency NAVTEX system. The Coast Guard has recently proposed discontinuing NAVTEX, in favor of distributing this information to offshore mariners using satellite communications, as part of the GMDSS .

ATON DISCREPANCIES

The Coast Guard does not keep the tens of thousands of aids to navigation comprising the U.S. Aids to Navigation System under simultaneous and continuous observation. Mariners should realize that it is impossible to maintain every aid to navigation operating properly and on its assigned position at all times. Therefore, for the safety of all mariners, any who discovers an aid to navigation that is either off station or exhibiting characteristics other than those listed in the Light Lists should promptly notify the nearest Coast Guard unit. Radio messages should be prefixed "COAST GUARD" and transmitted on VHF-FM channel 16 In addition to notifying the nearest Coast Guard unit by radio, a discrepant aid to navigation can be reported online at http://www.navcen.uscg.gov/?pageName=atonOutageReport, or by calling (703) 313-5900, or emailing the NIS watch at TIS-SMB-NISWS.

U.S. AIDS TO NAVIGATION SYSTEM

GENERAL

The navigable waters of the United States are marked to assist navigation using the U.S. Aids to Navigation System, a system consistent with the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) Maritime Buoyage System. The IALA Maritime Buoyage System is followed by most of the world's maritime nations and improves maritime safety by encouraging conformity in buoyage systems worldwide. IALA buoyage is divided into two regions made up of Region A and Region B. All navigable waters of the United States follow IALA Region B, except U.S. possessions west of the International Date Line and south of 10° north latitude, which follow Region A. Lateral aids to navigation in Region A vary from those located within Region B. Non-lateral aids to navigation in Region A are the same as those used in Region B. Appropriate nautical charts and publications should be consulted to determine whether the Region A or Region B marking schemes are in effect for a given area.

Aids to navigation are developed, established, operated, and maintained by the U.S. Coast Guard to accomplish the following:

1. Assist navigators in determining their position,
2. Assist the navigator in determining a safe course,
3. Warn the navigator of dangers and obstructions,
4. Promote the safe and economic movement of commercial vessel traffic, and
5. Promote the safe and efficient movement of military vessel traffic, and cargo of strategic military importance.

The U.S. Aids to Navigation System is designed for use with nautical charts. Nautical charts portray the physical features of the marine environment, which include: soundings, landmarks, hazards to navigation, and aids to navigation. To best understand the purpose of a specific aid to navigation, mariners should consult the associated nautical chart, which illustrates the relationship of the aid to navigation to channel limits, obstructions, hazards to navigation, and to the aids to navigation system as a whole. Seasonal aids to navigation are placed into service, withdrawn, or changed at specified times of the year. The dates shown in the Light Lists are approximate and may vary due to adverse weather or other conditions. These aids will be changed on Electronic Navigational Charts (ENC) based on Light List dates and electronic navigation system settings.

Mariners should maintain and consult suitable publications and navigation equipment depending on the vessel's requirements. This shipboard navigation equipment is separate from the aids to navigation system, but is often essential to its use.

The U.S. Aids to Navigation System is primarily a lateral system, which employs a simple arrangement of colors, shapes, numbers, and light characteristics to mark the limits of navigable

routes. This lateral system is supplemented with non-lateral aids to navigation where appropriate.

Federal aids to navigation consist of Coast Guard operated aids to navigation. The Coast Guard establishes, maintains, and operates a system of aids to navigation consisting of visual, audible, and electronic signals designed to assist the prudent mariner in the process of navigation.

The U.S. Aids to Navigation System contains the following subsystems:

1. **Intracoastal Waterway**: The aids to navigation marking the Intracoastal Waterway are arranged geographically from north to south on the Atlantic Coast and generally east to west on the coast of the Gulf of Mexico. Red lights (if so equipped), even numbers, and red buoys or triangle shaped daymarks are located on the southbound/westbound starboard waterway boundary. Green lights (if so equipped), odd numbers, and green buoys or square shaped daymarks are on the southbound/westbound port waterway boundary.

2. **Western Rivers**: The Western Rivers System is employed on the Mississippi River System, in addition to the Tennessee-Tombigbee Waterway and the Alabama, Atchafalaya, and Apalachicola-Chattahoochee-Flint River Systems. The Western Rivers System consists of the following characteristics:

    a. Buoys are not numbered.
    b. Numbers on beacons do not have lateral significance, but rather indicate mileage from a fixed point (normally the river mouth).
    c. Diamond shaped non-lateral dayboards, red and white or green and white as appropriate, are used to indicate where the river channel crosses from one bank to the other.
    d. Lights on green aids to navigation show a single-flash characteristic, which may be green or white.
    e. Lights on red aids to navigation show a group-flash characteristic, which may be red or white.
    f. Isolated danger marks are not used.

3. **Bridge Markings:** Bridges across navigable waters are marked with red, green and/or white lights for nighttime navigation. Red lights mark piers and other parts of the bridge. Red lights are also placed on drawbridges to show when they are in the closed position. Green lights are placed on drawbridges to show when they are in the open position. The location of these lights will vary according to the bridge structure. Green lights are also used to mark the centerline of navigable channels through fixed bridges. If there are two or more channels through the bridge, the preferred channel is also marked by three white lights in a vertical line above the green light.

Red and green retro-reflective panels may be used to mark bridge piers and may also be used on bridges not required to display lights. Lateral red and green lights and dayboards may mark main channels through bridges. Adjacent piers are marked with fixed yellow lights when the main channel is marked with lateral aids to navigation.

Centerlines of channels through fixed bridges may be marked with a safe water mark and an occulting white light when lateral marks are used to mark main channels.
The centerline of the navigable channel through the draw span of floating bridges may be marked with a special mark. The mark will be a yellow diamond with yellow retro-reflective panels and may exhibit a yellow light that displays a Morse code “B” (a long flash followed by three short flashes). AIS-ATON and RACONs may be placed on the bridge structure to mark the centerline of the navigable channel through the bridge.

Vertical clearance gauges may be installed to enhance navigation safety. The gauges are located on the right channel pier or pier protective structure facing approaching vessels. Clearance gauges indicate the vertical distance between “low steel” of the bridge channel span (in the closed to navigation position for drawbridges) and the level of the water, measured to the bottom of the foot marks, read from top to bottom.

Drawbridges equipped with radiotelephones display a blue and white sign which indicates what VHF radiotelephone channels should be used to request bridge openings.

Private aids to navigation include aids to navigation that are either operated by private persons and organizations, or that are operated by states. Private aids to navigation are classified into three categories:

1. **Class I**: Aids to navigation on marine structures or other works which the owners are legally obligated to establish, maintain, and operate as prescribed by the U.S. Coast Guard.
2. **Class II:** Aids to navigation that, exclusive of Class I aids, are located in waters used by general navigation.
3. **Class III:** Aids to navigation that, exclusive of Class I and Class II aids, are located in waters not ordinarily used by general navigation.

Authorization for the establishment of a Class II or Class III private aid to navigation by the U.S. Coast Guard imposes no legal obligation that the aid actually be established and operated. It only specifies the location and operational characteristics of the aid for which the authorization was requested. Once the aid is established, however, the owner is legally obligated to maintain it in good working order and properly painted.

Lights and sound signals on oil wells or other offshore structures in navigable waters are private aids to navigation and are generally not listed in the Light List unless they are equipped with a RACON. Where space allows, the structures are shown on the appropriate nautical charts. Information concerning the location and characteristics of those structures which display lights and sound signals not located in obstruction areas are published in Local and/or weekly Notices to Mariners.

In general, during the nighttime, a series of white lights are displayed extending from the platform to the top of the derrick when drilling operations are in progress. At other times, structures are usually marked with one or more quick flashing white, red, or yellow lights, visible for at least one nautical mile during clear weather. Obstructions, which are a part of the appurtenances to the main structure, such as mooring piles, anchors, and mooring buoys, etc.,

are not normally lighted. In addition, some structures are equipped with a sound signal that produces a single two-second blast every 20 seconds.

BUOYS, BEACONS, AND AIS-ATON

The primary components of the U.S. Aids to Navigation System are buoys, beacons, and AIS-ATON.

Buoys are floating aids to navigation used extensively throughout U.S. waters. They are moored to sinkers by varying lengths of chain and may shift due to sea conditions and other causes. Buoys may also be carried away, capsized, or sunk. Prudent mariners will not rely solely on any single aid to navigation, particularly floating aids.

Buoy positions represented on nautical charts are approximate position only, due to the practical limitations of positioning and maintaining buoys and their sinkers in precise geographical locations. The position of buoys and beacons are indicated with a circle on the chart. The center of the symbol corresponds with the position of the aid.

Positions of Federal aids to navigation are verified during periodic maintenance visits. Between visits, environmental conditions, including atmospheric and sea conditions, seabed slope and composition, may shift buoys off their charted positions. Buoys may also be dragged off station, sunk, or capsized by a collision with a vessel.

Beacons are aids to navigation which are permanently fixed to the earth's surface. They range from large lighthouses to small single-pile structures and may be located on land or in the water. Lighted beacons are called lights; unlighted beacons are called daybeacons. Lighthouses are placed on shore or on marine sites and most often do not indicate lateral significance. Lighthouses with no lateral significance exhibit a white light.

Beacons exhibit a daymark. For small structures, these are colored geometric shapes that make an aid to navigation readily visible and easily identifiable against background conditions. Generally, the daymark conveys to the mariner, during daylight hours, the same significance as the aid's light or reflector does at night. The daymark of towers, however, consists of the structure itself. As a result, these daymarks do not infer lateral significance.

Ranges are non-lateral aids to navigation composed of two beacons, which when the structures appear to be in line, assist the mariner in maintaining a safe course. The appropriate nautical chart must be consulted when using ranges to determine whether the range marks the centerline of the navigable channel and also what section of the range may be safely traversed. Ranges typically display rectangular dayboards of various colors and are generally, but not always lighted. Ranges may display lights during daylight and at night. When lighted, ranges may display lights of any color.

Vessels should not pass fixed aids to navigation close aboard due to the danger of collision with rip-rap or structure foundations, or with the obstruction or danger being marked.

Aids to Navigation (ATON) may be enhanced by the use of an automatic identification system (AIS). AIS is a maritime navigation safety communications protocol standardized by the International Telecommunication Union and adopted by the International Maritime Organization for the broadcast or exchange of navigation information between vessels, aircraft, and shore

stations. AIS ATON can autonomously and at fixed intervals broadcast the name, position, dimensions, type, characteristics, and status from or concerning an aid to navigation.
AIS ATON can be either real (physically fitted to an aid to navigation), synthetic (physically fitted somewhere other than to an aid to navigation) or virtual (physically nonexistent, but capable of being portrayed on AIS-capable displays).

Note: A Real or Physical AIS ATON can actively monitor and report the health and position status of its host; while Synthetic AIS ATON broadcasted from ashore (i.e. NAIS) can be used to electronically augment the range or portrayal (i.e., on radar and ECDIS) of an existing aid to navigation.

Although all existing AIS mobile devices can receive AIS ATON Reports and ASM messages, they may not readily appear on an AIS Minimal Keyboard Display or other shipboard navigational display systems (i.e., radar, ECDIS, ECS), which would require software updates to make these systems compliant with international navigation presentation standards (i.e., IEC 62288 (Ed. 2), IHO S-52 (Ed. 4.4.0)).

AIS ATON can also be used to broadcast both laterally (*e.g.,* Port Hand Mark) and non-laterally significant marine safety information (*e.g.,* environmental data, tidal information, and navigation warnings).

Note: AIS ATON stations broadcast their presence, identity (9-digit Marine Mobile Service Identity (MMSI) number), position, type, and status at least every three minutes or less via an AIS (ITU-R M.1371) message 21–AIS ATON Report. In addition to its AIS ATON Report, AIS ATON can broadcast significant marine safety information via Application Specific Messages (ASM), which are customized messages that can be used to broadcast additional aid information or other marine safety information (i.e., environmental conditions, wind speed and direction, tidal/current data, bridge air clearances, area notices, etc. They are identified by their: AIS message number (i.e. 6, 8, 25 or 26), Designated Area Code (DAC), Function Identifier (FI), and Version Number, e.g. U.S. Geographic Notice message: Msg# = 8, DAC = 367, FI = 22, Version = 2, and, denoted as 8/367.22.2.

TYPES OF SIGNALS

Lighted aids to navigation are, for the most part, equipped with daylight controls which automatically cause the light to operate during darkness and to be extinguished during daylight. These devices are not of equal sensitivity; therefore, all lights do not come on or go off at the same time. Mariners should ensure correct identification of aids to navigation during twilight periods when some lighted aids to navigation are lit while others are not.

The lighting apparatus is serviced at periodic intervals to assure reliable operation, but there is always the possibility of a light being extinguished or operating improperly.
The condition of the atmosphere has a considerable effect upon the distance at which lights can be seen. Sometimes lights are obscured by fog, haze, dust, smoke, or precipitation which may be present at the light, or between the light and the observer, and which is possibly unknown by the observer. Atmospheric refraction may cause a light to be seen farther than under ordinary circumstances.

A light of low intensity will be easily obscured by unfavorable conditions of the atmosphere and little dependence can be placed on it being seen. For this reason, the intensity of a light should always be considered when expecting to sight it in reduced visibility. Haze and distance may

reduce the apparent duration of the flash of a light. In some atmospheric conditions, white lights may have a reddish hue. Lights placed at high elevations are more frequently obscured by clouds, mist, and fog than those lights located at or near sea level.

In regions where ice conditions prevail in the winter, the lantern panes of lights may become covered with ice or snow, which will greatly reduce the visibility of the lights and may also cause colored lights to appear white.

The increasing use of brilliant shore lights for advertising, illuminating bridges, and other purposes, may cause marine navigational lights, particularly those in densely inhabited areas, to be outshone and difficult to distinguish from the background lighting. Mariners are requested to report such cases in order that steps may be taken to improve the conditions.

The “loom” (glow) of a powerful light is often seen beyond the limit of visibility of the actual rays of the light. The loom may sometimes appear sufficiently sharp enough to obtain a bearing. At short distances, some flashing lights may show a faint continuous light between flashes.

The distance of an observer from a light cannot be estimated by its apparent intensity. Mariners should always check the characteristics of lights in order to avoid mistaking powerful lights, visible in the distance, for nearby lights (such as those on lighted buoys) showing similar characteristics of low intensity. If lights are not sighted within a reasonable time after prediction, a dangerous situation may exist, requiring prompt resolution or action in order to ensure the safety of the vessel.

The apparent characteristic of alight can appear to change based on the observer’s distance from it. Consider the case of a light with a rather complex characteristic: Fixed white with an alternating red and white. From a distance the light might appear to only be a flashing white. At a shorter distance it may look like an alternating red and white. Only up close might an observer be able to see the true characteristic. Fixed white with an alternating red and white.

If a vessel has considerable vertical motion due to pitching in heavy seas, a light sighted on the horizon may alternatively appear and disappear. This may lead the unwary to assign a false characteristic and hence, to error in its identification. The true characteristic will be evident after the distance has been sufficiently decreased or by increasing the height of eye of the observer.

Similarly, the effect of wave motion on lighted buoys may produce the appearance of incorrect light phase characteristics when certain flashes occur, but are not viewed by the mariner. In addition, buoy motion can reduce the distance at which buoy lights are detected.

Sectors of colored glass are placed in the lanterns of some lights in order to produce a system of light sectors of different colors. In general, red sectors are used to mark shoals or to warn the mariner of other obstructions to navigation or of nearby land. Such lights provide approximate bearing information, since observers may note the change of color as they cross the boundary between sectors. These boundaries are indicated in the Light List (Col. 8) and by dotted lines on charts. These bearings, as all bearings referring to lights, are given in true degrees from 000° to 359°, as observed from a vessel toward the light.

When navigating, mariners should not rely on a line of bearing defined by the boundary between light sectors. These sectors are not designed to define an accurate observed line of bearing. Using a compass bearing to the light is recommend as more accurate. Be guided instead by the correct compass bearing to the light and do not rely on being able to accurately observe the point at which the color changes. This is difficult to determine because the edges

of a colored sector cannot be cut off sharply. On either side of the line of demarcation between white, red, or green sectors, there is always a small arc of uncertain color. Moreover, when haze or smoke is present in the intervening atmosphere, a white sector might have a reddish hue.

The arc drawn on charts around a light is not intended to give information as to the distance at which it can be seen. The arc indicates the bearings between which the variation of visibility or obstruction of the light occurs.

Only aids to navigation with green or red lights have lateral significance and exhibit either flashing, quick flashing, group flashing, occulting, or isophase light rhythms. When proceeding in the conventional direction of buoyage, the mariner in IALA Region B, may see the following lighted aids to navigation:

Green lights on aids to navigation mark port sides of channels and locations of wrecks or obstructions that must be passed by keeping these lighted aids to navigation on the port hand of a vessel. Green lights are also used on preferred channel marks where the preferred channel is to starboard (i.e., aid to navigation left to port when proceeding in the conventional direction of buoyage). Red lights on aids to navigation mark starboard sides of channels and locations of wrecks or obstructions that must be passed by keeping these lighted aids to navigation on the starboard hand of a vessel. Red lights are also used on preferred channel marks where the preferred channel is to port (i.e., aid to navigation left to starboard when proceeding in the conventional direction of buoyage).

White and yellow lights have no lateral significance. The shapes, colors, letters, and light rhythms may determine the purpose of aids to navigation exhibiting white or yellow lights.

Most aids to navigation are fitted with retro reflective material to increase their visibility in darkness. Colored reflective material is used on aids to navigation that, if lighted, will display lights of the same color.

Preferred channel marks exhibit a composite group-flashing light rhythm of two flashes followed by a single flash.

Safe water marks exhibit a white Morse code “A” rhythm (a short flash followed by a long flash).

Isolated danger marks exhibit a white flashing (2) rhythm (two flashes repeated regularly).

Special marks exhibit yellow lights and exhibit a flashing or fixed rhythm.

Information and regulatory marks exhibit a white light with any light rhythm except quick flashing, flashing (2) and Morse code “A.”

For situations where lights require a distinct cautionary significance, as at sharp turns, sudden channel constrictions, wrecks, or obstructions, a quick flashing light rhythm will be used.

Shapes are used to provide easy identification on certain unlighted buoys and dayboards on beacons. These shapes are laterally significant only when associated with laterally significant colors.

In IALA Region B, cylindrical buoys (referred to as “can buoys”) and square dayboards mark the port side of a channel when proceeding in the conventional direction of buoyage. These aids to

navigation are associated with solid green or green and red-banded marks where the topmost band is green.
Conical buoys (referred to as “nun buoys”) and triangular dayboards mark the starboard side of the channel when proceeding from seaward. These aids to navigation are associated with solid red or red and green-banded marks where the topmost band is red.

Unless fitted with topmarks; lighted, sound, pillar, and spar buoys have no shape significance. Their numbers, colors, and light characteristics convey their meanings.

Dayboards throughout the U.S. Aids to Navigation System are described using standard designations that describe the appearance of each dayboard. A brief explanation of the designations and of the purpose of each type of dayboard in the system is given below, followed by a verbal description of the appearance of each dayboard type.

Designations:

1. First Letter – Shape or Purpose

   C: Crossing (Western Rivers only) diamond-shaped, used to indicate the points at which the channel crosses the river.

   J: Junction (square or triangle) used to mark (preferred channel) junctions or bifurcations in the channel, or wrecks or obstructions which may be passed on either side; color of top band has lateral significance for the preferred channel.

   K: Range (rectangular) when both the front and rear range dayboards are aligned on the same bearing, the observer is on the azimuth of the range, usually used to mark the center of the channel.

   M: Safe Water (octagonal) used to mark the fairway or middle of the channel.

   N: No lateral significance (diamond or rectangular) used for special purpose, warning, distance, or location markers.

   S: Square used to mark the port side of channels when proceeding from seaward.

   T: Triangle used to mark the starboard side of channels when proceeding from seaward.

2. Second Letter – Key Color

   B – Black G – Green R – Red W – White Y – Yellow

3. Third Letter – Color of Center Stripe (Range Dayboards Only)

4. Additional Information after a (-)

   -I: Intracoastal Waterway; a yellow reflective horizontal band on a dayboard; indicates the aid to navigation marks the Intracoastal Waterway.

   -SY: Intracoastal Waterway; a yellow reflective square on a dayboard; indicates the aid to navigation is a port hand mark for vessels traversing the Intracoastal Waterway.

May appear on a triangular daymark where the Intracoastal Waterway coincides with a waterway having opposite conventional direction of buoyage.

-TY: Intracoastal Waterway; a yellow reflective triangle on a dayboard; indicates the aid to navigation is a starboard hand mark for vessels traversing the Intracoastal Waterway. May appear on a square daymark where the Intracoastal Waterway coincides with a waterway having opposite conventional direction of buoyage.

Descriptions:

CNG: Diamond-shaped dayboard divided into four diamond-shaped colored sectors with the sectors at the side corners white and the sectors at the top and bottom corners green, with green reflective diamonds at the top and bottom corners and white reflective diamonds in the side corners (Western Rivers only).

CNR: Diamond-shaped dayboard divided into four diamond-shaped colored sectors with the sectors at the side corners white and the sectors at the top and bottom corners red, with red reflective diamonds at the top and bottom corners and white reflective diamonds in the side corners (Western Rivers only).

JG: Dayboard bearing horizontal bands of green and red, green band topmost, with corresponding reflective borders.

JG-I: Square dayboard bearing horizontal bands of green and red, green band topmost, with corresponding reflective borders and a yellow reflective horizontal band.

JG-SY: Square dayboard bearing horizontal bands of green and red, green band topmost, with corresponding reflective borders and a yellow reflective square.

JG-TY: Square dayboard bearing horizontal bands of green and red, green band topmost, with corresponding reflective borders and a yellow reflective triangle.

JR: Dayboard bearing horizontal bands of red and green, red band topmost, with corresponding reflective borders.

JR-I: Triangular dayboard bearing horizontal bands of red and green, red band topmost, with corresponding reflective borders and a yellow reflective horizontal band.

JR-SY: Triangular dayboard bearing horizontal bands of red and green, red band topmost, with corresponding reflective borders and a yellow reflective square.

JR-TY: Triangular dayboard bearing horizontal bands of red and green, red band topmost, with corresponding reflective borders and a yellow reflective triangle.

KBG: Rectangular black dayboard bearing a central green stripe.

KBG-I: Rectangular black dayboard bearing a central green stripe and a yellow reflective horizontal band.

KBR: Rectangular black dayboard bearing a central red stripe.

KBR-I: Rectangular black dayboard bearing a central red stripe and a yellow reflective

horizontal band.

KBW: Rectangular black dayboard bearing a central white stripe.

KBW-I: Rectangular black dayboard bearing a central white stripe and a yellow reflective horizontal band.

KGB: Rectangular green dayboard bearing a central black stripe.

KGB-I: Rectangular green dayboard bearing a central black stripe and a yellow reflective horizontal band.

KGR: Rectangular green dayboard bearing a central red stripe.

KGR-I: Rectangular green dayboard bearing a central red stripe and a yellow reflective horizontal band.

KGW: Rectangular green dayboard bearing a central white stripe.

KGW-I: Rectangular green dayboard bearing a central white stripe and a yellow reflective horizontal band.

KRB: Rectangular red dayboard bearing a central black stripe.

KRB-I: Rectangular red dayboard bearing a central black stripe and a yellow reflective horizontal band.

KRG: Rectangular red dayboard bearing a central green stripe.

KRG-I: Rectangular red dayboard bearing a central green stripe and a yellow reflective horizontal band.

KRW: Rectangular red dayboard bearing a central white stripe.

KRW-I: Rectangular red dayboard bearing a central white stripe and a yellow reflective horizontal band.

KWB: Rectangular white dayboard bearing a central black stripe.

KWB-I: Rectangular white dayboard bearing a central black stripe and a yellow reflective horizontal band.

KWG: Rectangular white dayboard bearing a central green stripe.

KWG-I: Rectangular white dayboard bearing a central green stripe and a yellow reflective horizontal band.

KWR: Rectangular white dayboard bearing a central red stripe.

KWR-I: Rectangular white dayboard bearing a central red stripe and a yellow reflective horizontal band.

MR: Octagonal dayboard bearing stripes of white and red, with a white reflective border.

MR-I: Octagonal dayboard bearing stripes of white and red, with a white reflective border and a yellow reflective horizontal band.

NB: Diamond-shaped dayboard divided into four diamond-shaped colored sectors with the sectors at the side corners white and the sectors at the top and bottom corners black, with a white reflective border.

ND: Rectangular white mileage marker with black numerals indicating the mile number (Western Rivers only).

NG: Diamond-shaped dayboard divided into four diamond-shaped colored sectors with the sectors at the side corners white and the sectors at the top and bottom corners green, with a white reflective border.

NL: Rectangular white location marker with an orange reflective border and black letters indicating the location.

NR: Diamond-shaped dayboard divided into four diamond-shaped colored sectors with the sectors at the side corners white and the sectors at the top and bottom corners red, with a white reflective border.

NW: Diamond-shaped white dayboard with an orange reflective border and black letters describing the information or regulatory nature of the mark.

NY: Diamond-shaped yellow dayboard with yellow reflective border.

SG: Square green dayboard with a green reflective border.

SG-I: Square green dayboard with a green reflective border and a yellow reflective horizontal band.

SG-SY: Square green dayboard with a green reflective border and a yellow reflective square.

SG-TY: Square green dayboard with a green reflective border and a yellow reflective triangle.

SR: Square red dayboard with a red reflective border. (IALA Region “A”)

TG: Triangular green dayboard with a green reflective border. (IALA Region “A”)

TR: Triangular red dayboard with a red reflective border.

TR-I: Triangular red dayboard with a red reflective border and a yellow reflective horizontal band.

TR-SY: Triangular red dayboard with a red reflective border and a yellow reflective square.

TR-TY: Triangular red dayboard with a red reflective border and a yellow reflective triangle.
These abbreviated descriptions are used in column (7) and may also be found on the illustrations of the U.S. Aids to Navigation System.

Numbers are used to provide easy identification of aids to navigation. In IALA Region B, all solid red and solid green aids are numbered, with the exception of buoys located on the Western Rivers. Red aids to navigation have even numbers and green aids to navigation have odd numbers. The numbers for each increase from seaward when proceeding in the conventional direction of buoyage. Numbers are kept in approximate sequence on both sides of the channel by omitting numbers where necessary.

Letters may be used to augment numbers when lateral aids to navigation are added to channels with previously completed numerical sequences. Letters will increase in alphabetical order, proceeding in the conventional direction of buoyage, and are added to numbers as suffixes. Letters are not used for buoys on the Western Rivers.
No other aids to navigation are numbered. Preferred channel, safe water, isolated danger, special marks, and information and regulatory aids to navigation may be lettered, but not numbered.

Sound signal is a generic term used to describe aids to navigation that produce an audible signal designed to assist the mariner in periods of reduced visibility. These aids to navigation can be activated by several means e.g., manually, remotely, or automatically (as in the case of a fog detector). The Coast Guard is replacing many fog detectors with mariner radio activated sound signals (MRASS). To activate, mariners key their VHF-FM radio a designated number of times on a designated VHF- FM channel. The sound signal is activated for a period of 15, 30, 45, or 60 minutes after which the activated assistance automatically turns off. In cases where a fog detector is in use, there may be a delay in the automatic activation of the signal. Additionally, fog detectors may not be capable of detecting patchy fog conditions.

Sound signals are distinguished by their tone and phase characteristics. Devices producing sound, e.g., diaphones, diaphragm horns, sirens, whistles, bells, and gongs emit a distinct sound.

Phase characteristics are defined by the signal's sound pattern, i.e., the number of blasts and silent periods per minute and their durations. Signals sounded from fixed structures generally produce a specific number of blasts and silent periods each minute when operating. Sound signals installed on buoys are generally activated by the motion of the sea and therefore do not emit a regular signal characteristic. It is common, in fact, for a buoy to produce no sound signal when seas are calm.

The characteristic of a sound signal is listed in column (8) of the Light List. If the sound signal is remotely activated, column (8) will contain the VHF-FM channel and number of times the VHF-FM radio should be keyed. All waterway users equipped with a VHF-FM radio may activate the sound signal, but they are not required to do so. Unless the light list indicates that the sound signal "operates continuously," or the signal is a bell, gong, or whistle on a buoy, mariners can assume that the sound signal only operates during times of fog, reduced visibility, or adverse weather.

Caution: *Mariners should not rely on sound signals to determine their position. Distance cannot be accurately determined by sound intensity. Occasionally, sound signals may not be heard in areas close to their location. Signals may not sound in cases where fog exists close to, but not at, the location of the sound signal.*

Radar Beacons (RACONS) are radar transponders that when triggered by an X-band radar produce a coded response from its location, which is portrayed radially as a series of dots and dashes on the triggering radar. Although RACONS may be used on both laterally significant and non-laterally significant aids to navigation, their signal should just be used for identification

purposes only.

RACONS have a typical output of 600 milliwatts and are considered a short range aid to navigation. Reception varies from a nominal range of 6 to 8 nautical miles (when mounted on a buoy) to as much as 17 nautical miles for a RACON mounted on a fixed structure. It must be understood that these nominal ranges are dependent upon many factors.

The beginning of the RACON presentation occurs about 50 yards beyond the RACON's actual position and will persist for a number of revolutions of the radar antenna (depending on its rotation rate).

Radar operators may notice some broadening or spoking of the RACON presentation when their vessel approaches closely to the source of the RACON. This effect can be minimized by adjusting the IF gain or sweep gain control of the radar. If desired, the RACON presentation can be virtually eliminated by operation of the FTC (fast time constant) controls of the radar.

Radar Reflectors are special fixtures, incorporated into both lighted and unlighted aids to navigation, to enhance the reflection of radar energy. These fixtures make equipped aids to navigation more detectable. However, they do not positively identify a radar target as an aid to navigation.

GPS and Navigation – Related Services Operated by the US Coast Guard

GLOBAL POSITIONING SYSTEM (GPS), DIFFERENTIAL GPS (DGPS), AND NATION-WIDE AUTOMATIC IDENTIFICATION SYSTEM (NAIS)

Global Positioning System (GPS) is a satellite based navigation system, operated and controlled by the Department of Defense (DOD) under U.S. Air Force management, which provides precise, worldwide, three-dimensional navigation capabilities. The system was originally designed for military application; however, it is now available to all and used almost ubiquitously. The United States is committed to maintaining the availability of at least 24 operational GPS satellites, in six precise orbital planes, each of which complete a circular 10,900 nautical mile orbit of the earth once every 12 hours. At least three satellites are required for a two-dimensional solution. However, GPS does not provide integrity information and mariners should exercise extreme caution when using GPS in restricted waterways. Ideally, a minimum of four satellites will be visible from any position on the earth and will provide positions with a global horizontal accuracy within 3 meters, 95% percent of the time. Whenever possible, advance notice of when GPS satellites should not be used will be provided by the DOD and made available by the US Coast Guard through GPS status messages.

The Coast Guard Navigation Center coordinates and manages the Civil GPS Service Interface Committee (CGSIC), which comprises members from U.S. and international private, government, and industry user groups. The CGSIC is the recognized worldwide forum for effective interaction between all civil GPS users and the U.S. GPS authorities.

Differential GPS (DGPS) was the first Federal radionavigation system capable of providing the 10-meter navigation service required for the Harbor Entrance and Approach phase of maritime navigation. DGPS provides integrity messages for signals from the GPS satellites, as well as DGPS position corrections, and typically provides position accuracy of 1-3 meters.

All DGPS sites are scheduled for decommissioning by the end of 2020. Information regarding

the location of DGPS transmitters and decommissioning dates are given on the map labeled U.S. DGPS Sites & Identification Numbers on page i. Users can access additional information and DGPS statuses, submit questions, and provide comments via the Navigation Information Service's website or by calling the Coast Guard Navigation Center DGPS watchstander at (703) 313- 5902.

Navigation Information Service (NIS): The Coast Guard is the government interface for civil users of GPS and operates a Navigation Information Service (NIS) to meet the information needs of the public. The NIS is a staffed 24 hours a day, 7 days a week, and is located at the Navigation Center (NAVCEN) in Alexandria, VA. It provides data broadcasts and on-line computer-based information services which are available 24 hours a day. The information provided includes present and future satellite outages, constellation changes, user instructions and tutorials, lists of service and receiver provides/users, and other GPS and DGPS related information.

Coast Guard Navigation Center Internet Service (www) website also offers an e-mail subscription service featuring information such as the following: GPS status messages, Notice Advisory to NAVSTAR Users (NANU) messages, Local Notice to Mariners, and Coast Guard Light List.

The NAVCEN also disseminates info about GPS and DGPS over radio through USCG broadcast stations utilizing VHF-FM voice, HF-SSB voice, and NAVTEX broadcasts. The broadcasts provide the GPS and DGPS user in the marine environment with the current status of the navigation systems, as well as any planned/unplanned system outages that could affect GPS and DGPS navigational accuracy.

Nationwide Automatic Identification System (NAIS) consists of approximately 200 VHF receiver sites located throughout the coastal continental United States, inland rivers, Alaska, Hawaii, Puerto Rico, and Guam. NAIS couples AIS technology with a comprehensive network infrastructure to achieve ship-to-shore and shore-to-ship data transmission throughout the navigable waters of the United States. The system enables AIS-equipped vessels to receive important marine information such as safety and security messages, weather alerts, and electronic aids to navigation.

NAIS is designed to collect safety and security data from AIS-equipped vessels in navigable waters of the United States and share that data with Coast Guard operators and other government and port partners. The primary goal of NAIS is to increase situational awareness through data dissemination via a network infrastructure, particularly focusing on improving maritime security, marine and navigational safety, search and rescue, and environmental protection services. Collected AIS data improves the safety of vessels and ports through collision avoidance and the safety of the nation through detection, identification, and classification of vessels. NAIS broadcasts navigation enhancing safety related messages such as Synthetic AIS ATON Reports and Application Specific Messages.

For more information about AIS see:

- AIS messages at www.navcen.uscg.gov/?pageName=AISMessages,
- IMO Safety of Navigation Circular 289 and 290 regarding Application Specific Messages (ASM) at www.navcen.uscg.gov/?pageName=AISReferences,
- IALA AIS ASM Catalog at www.e-navigation.nl/asm, and
- USCG Special Notice 14-02 regarding AIS Aids to Navigation at www.navcen.uscg.gov/?pageName=AISFAQ#21.

To comment on any of these services or ask questions about the service offered, contact the NAVCEN at:

Commanding Officer
U.S. Coast Guard Navigation Center
7323 Telegraph Road STOP 7310
Alexandria, VA 20598-7310
Phone: (703) 313-5900
Internet: http://www.navcen.uscg.gov

ABBREVIATIONS

Various abbreviations are utilized in Broadcast Notices to Mariners, Local Notices to Mariners, on charts, and in the Light Lists. Refer to the following list.

Light Characteristics

Alternating	AL
Characteristic	CHAR
Composite Group-Flashing	FL (2+1)
Composite Group-Occulting	OC (2+1)
Continuous Quick-Flashing	Q
Eclipse	EC
Fixed and Flashing	FFL
Fixed	F
Group-Flashing	FL (3)
Group-Occulting	OC (2)
Interrupted Quick-Flashing	IQ
Isophase	ISO
Morse Code	MO (A)
Occulting	OC
Single-Flashing	FL

Sound Signal Characteristics

Blast	BL
Every	EV
Seconds	S
Silent	SI

Colors*

Black	B
Blue	BU
Green	G
Orange	OR
Red	R
White	W
Yellow	Y

*NOTE: Color refers to characteristics of aids to navigation only.

Aids to Navigation

Aeronautical Radiobeacon	AERO RBN
Automatic Identification System	AIS
Daybeacon	DBN
Destroyed	DESTR
Differential GPS	DGPS
Discontinued	DISCONTD
Established	ESTAB
Exposed Location Buoy	ELB
Extinguished	EXT
Fog Signal Station	FOG SIG
Light List Number	LLNR
Light	LT
Lighted Bell Buoy	LBB
Lighted Buoy	LB
Lighted Gong Buoy	LGB
Lighted Horn Buoy	LHB
Lighted Whistle Buoy	LWB
Mariner Radio Activated Sound Signal	MRASS
Ocean Data Acquisition System	ODAS
Privately Maintained	PRIV MAINTD
Radar Reflector	RA REF
Radar Responder Beacon	RACON
Remote Radio Activated Sound Signal	RRASS
Single Point Mooring Buoy	SPM
Sound Signal	SS
Temporarily Replaced by Lighted Buoy	TRLB
Temporarily Replaced by Unlighted Buoy	TRUB
Topmark	TMK
Virtual AIS Aid to Navigation	V-AIS
Whistle	WHIS

Organizations

Commander, Coast Guard District	CCGD (#)
Coast Guard	CG
Corps of Engineers	USACE
National Geospatial-Intelligence Agency	NGA
National Ocean Service	NOS
National Weather Service	NWS

Vessels

Aircraft	A/C
Fishing Vessel	F/V
Liquefied Natural Gas Carrier	LNG
Motor Vessel (includes Steam Ship, Container Ship, Cargo Vessel, Tanker etc)	M/V
Pleasure Craft	P/C
Research Vessel	R/V
Sailing Vessel	S/V

Compass Directions

North	N

South	S
East	E
West	W
Northeast	NE
Northwest	NW
Southeast	SE
Southwest	SW

Months

January	JAN
February	FEB
March	MAR
April	APR
May	MAY
June	JUN
July	JUL
August	AUG
September	SEP
October	OCT
November	NOV
December	DEC

Days of the Week

Monday	MON
Tuesday	TUE
Wednesday	WED
Thursday	THU
Friday	FRI
Saturday	SAT
Sunday	SUN

Various

Anchorage	ANCH
Anchorage Prohibited	ANCH PROHIB
Approximate	APPROX
Atlantic	ATL
Authorized	AUTH
Average	AVG
Bearing	BRG
Breakwater	BKW
Broadcast Notice to Mariners	BNM
Canadian Aid	(C)
Captain of the Port	COTP
Channel	CHAN
Code of Federal Regulations	CFR
Continue	CONT
Degrees (temp, geo, pos)	DEG
Diameter	DIA
Edition	ED
Effect/Effective	EFF
Entrance	ENTR
Explosive Anchorage	EXPLOS ANCH
Fathom(s)	FM(S)
Foot/Feet	FT
Harbor	HBR
Height	HT
Hertz	HZ
Horizontal Clearance	HOR CL
Hour	HR
International Regulations for Preventing Collisions at Sea	COLREGS
Kilohertz	KHZ
Kilometer	KM
Knot(s)	KT(S)
Minute (time, geo, pos)	MIN
Megahertz	MHZ
Moderate	MOD
Mountain, Mount	MT
Nautical Mile(s)	NM
Notice to Mariners	NTM
Obstruction	OBSTR
Occasion/Occasionally	OCCASION
Operating Area	OPAREA
Pacific	PAC
Point(s)	PT(S)
Position	POS
Position Approximate	PA
Pressure	PRES
Private, Privately	PRIV
Prohibited	PROHIB
Publication	PUB
Range	RGE
Reported	REP
Restricted	RESTR
River	RIV
Rock	RK
Saint	ST
Second (time, geo, pos)	SEC
Signal Station	SIG STA
Station	STA
Statute Mile(s)	SM
Storm Signal Station	S SIG STA
Temporary	TEMP
Thunderstorm	TSTORM
Through	THRU
True	T
Uncovers, Dries	UNCOV
Universal Coordinate Time	UTC
Urgent Marine Information Broadcast	UMIB
Velocity	VEL
Vertical Clearance	VERT CL
Vessel Traffic Service	VTS

Visibility	VIS
Yard(s)	YD
Warning	WARN
Weather	WX
Wreck	WK

Countries and States

Alabama	AL
Alaska	AK
American Samoa	AS
Arizona	AZ
Arkansas	AR
California	CA
Canada	CN
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Florida	FL
Georgia	GA
Guam	GU
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Marshall Islands	MH
Massachusetts	MA
Missouri	MO
Mississippi	MS
Mexico	MX
Michigan	MI
Minnesota	MN
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Northern Marianas	MP
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Puerto Rico	PR
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
United States	US
Utah	UT
Vermont	VT
Virgin Islands	VI
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY

GLOSSARY OF AIDS TO NAVIGATION TERMS

Adrift: Afloat and unattached in any way to the shore or seabed.

Aid to Navigation: Any device external to a vessel or aircraft specifically intended to assist navigators in determining their position or safe course, or to warn them of dangers or obstructions to navigation.

Alternating Lights: A rhythmic light showing light of alternating colors.

Arc of Visibility: The portion of the horizon over which a lighted aid to navigation is visible from seaward.

Articulated Beacon: A beacon-like buoyant structure, tethered directly to the seabed and having no watch circle. Called articulated light or articulated daybeacon, as appropriate.

Assigned Position: The latitude and longitude position for an aid to navigation.

Beacon: A lighted or unlighted fixed aid to navigation attached directly to the earth's surface. (Lights and daybeacons both constitute beacons.

Bearing: The horizontal direction of a line of sight between two objects on the surface of the earth.

Bell: A sound signal producing bell tones by means of a hammer actuated by electricity on fixed aids and by sea motion onbuoys.

Bifurcation: The point where a channel divides when proceeding from seaward. The place where two tributaries meet.

Broadcast Notice to Mariners: A radio broadcast designed to provide important marine information.

Buoy: A floating object of defined shape and color, which is anchored at a given position and serves as an aid to navigation.

Characteristic: The audible, visual, or electronic signal displayed by an aid to navigation to assist in the identification of an aid to navigation. Characteristic refers to lights, sound signals, RACONS, and daybeacons.

Commissioned: The action of placing a previously discontinued aid to navigation back in service.

Composite Group Flashing Light: A group flashing light in which the flashes are combined in successive groups of different numbers of flashes.

Composite Group-Occulting Light: A light similar to a group occulting light except that the successive groups in a period have different numbers of eclipses.

Conventional Direction of Buoyage: The general direction taken by the mariner when approaching a harbor, river, estuary, or other waterway from seaward, or proceeding upstream or in a direction of the main stream of flood tide, or in the direction indicated in appropriate nautical documents (normally, following a clockwise direction around land masses).

Daybeacon: An unlighted fixed structure which is equipped with a dayboard for daytime identification.

Dayboard: The daytime identifier of an aid to navigation presenting one of several standard shapes (square, triangle, rectangle) and colors (red, green, white, orange, yellow, or black).

Daymark: The daytime identifier of an aid to navigation. (See column 7 of the Light List)

Diaphone: A sound signal which produces sound by means of a slotted piston moved back and forth by compressed air. A "two-

tone" diaphone produces two sequential tones with a second tone of lower pitch.

Directional Light: A light illuminating a sector or very narrow angle and intended to mark a direction to be followed.

Discontinued: To remove from operation (permanently of temporarily) a previously authorized aid to navigation.

Discrepancy: Failure of an aid to navigation to maintain its position or function as prescribed in the Light List.

Discrepancy Buoy: An easily transportable buoy used to temporarily replace an aid to navigation not watching properly.

Dolphin: A minor aid to navigation structure consisting of a number of piles driven into the seabed or riverbed in a circular pattern and drawn together with rope.

Eclipse: AN interval of darkness between appearances of a light.

Emergency Light: A light of reduced intensity displayed by certain aids to navigation when the main light is extinguished.

Establish: To place an authorized aid to navigation in operation for the first time.

Extinguished: A lighted aid to navigation which fails to show a light characteristic.

Fixed Light: A light showing continuously and steady, as opposed to a rhythmic light. (Do not confuse with "fixed" as used to differentiate from "floating".)

Flash: A relatively brief appearance of a light, in comparison with the longest interval of darkness in the same characteristic.

Flash tube: An electronically controlled high-intensity discharge lamp with a very brief flash duration.

Flashing Light: A light in which the total duration of the light in each period is clearly shorter than the total duration of the darkness and in which the flashed of light are all of equal duration. (Commonly used for a single-flashing light which exhibits only single flashes which are repeated at regular intervals.)

Floating Aid to Navigation: A buoy, secured in its assigned position by a mooring.

Fog Detector: An electronic device used to automatically determine conditions of visibility which warrant the activation of a sound signal or additional light signals.

Fog Signal: See sound signal.

Geographic Range: The greatest distance the curvature of the earth permits an object of a given height to be seen from a particular height of eye without regard to luminous intensity or visibility conditions.

Global Positioning System (GPS): A satellite based radio-navigation system providing continuous worldwide coverage. It provides navigation, position, and timing information to air, marine, and land users.

Gong: A wave actuated sound signal on buoys which uses a group of saucer-shaped bells to produce different tones.

Group Flashing Light: A flashing light in which a group of flashes, specified in number, is regularly repeated.

Group Occulting Light: An occulting light in which a group of eclipses, specified in number, regularly repeated.

Horn: A sound signal which uses electricity or compressed air to vibrate a disc diaphragm.

Inoperative: Sound signal or electronic aid to navigation out of service due to a malfunction.

Interrupted Quick Flash: A quick flashing light in which the rapid alternations are interrupted at regular intervals by eclipses of long duration.

Isolated Danger Mark: A mark erected on, or moored above or very near, an isolated danger which has navigable water all around it.

Isophase Light: A rhythmic light in which all durations of light and darkness are equal.

Junction: The point where a channel divides when proceeding seaward. The place where a distributary departs from the main stream.

Lateral System: A system of aids to navigation in which characteristics of buoys and beacons indicate the sides of a channel or route relative to a Conventional Direction of Buoyage (usually upstream).

Light: The signal emitted by a lighted aid to navigation. The illuminating apparatus used to emit the light signal. A lighted aid to navigation on a fixed structure.

Light Sector: The arc over which a light is visible, described in degrees true, as observed from seaward towards the light. May be used to define distinctive color difference of two adjoining sectors, or an obscured sector.

Lighted Ice Buoy (LIB): A lighted buoy without a sound signal, and designed to withstand the forces of shifting and flowing ice. Used to replace a conventional buoy when that aid to navigation is endangered by ice.

Lighthouse: A lighted beacon of major importance.

Local Notice to Mariners: A written document issued by each U.S. Coast Guard district to disseminate important information affecting aids to navigation, dredging, marine construction, special marine activities, and bridge construction on waterways within that district.

Luminous Range: The greatest distance a light can be expected to be seen given its nominal range and the prevailing meteorological visibility.

Mariner Radio Activated Sound Signal (MRASS): A system that allows the mariner to activate an ATON sound signal or light signal if the aid is so equipped. Once activated, the signal will continue to sound or remain lit for a period of time noted in the Light List before shutting down and going into standby mode again. The signal is activated by keying the microphone 5 consecutive times on VHF/FM channel 81A/157.075Mhz.

Mark: A visual aid to navigation. Often called navigational mark, including floating marks (buoys) and fixed marks (beacons).

Meteorological Visibility: The greatest distance at which a black object of suitable dimension could be seen and recognized against the horizon sky by day, or in case of night observations, could be seen and recognized if the general illumination were raised to the daylight level.

Mileage Number: A number assigned to aids to navigation which gives the distance in sailing miles along the river from a reference point to the aid to navigation. The number is used principally in the Mississippi River System.

Nominal Range: The maximum distance a light can be seen in clear weather (meteorological visibility of 10 nautical miles). Listed for all lighted aids to navigation except range lights, directional lights, and private aids to navigation.

Occulting Light: A light in which the total duration of light in each period is clearly longer than the total duration of the darkness and in which the intervals of darkness (occultations) are all of equal duration. Commonly used for single occulting light

which exhibits only single occultations which are repeated at regular intervals.

Ocean Data Acquisition System (ODAS): Certain very large buoys in deep water for the collection of oceanographic and meteorological information. All ODAS buoys are yellow in color and display a yellow light.

Off Shore Tower: Monitored light stations built on exposed marine sites to replace lightships.

Off Station: A floating aid to navigation that is not on its assigned position.

Passing Light: A low intensity light which may be mounted on the structure of another light to enable the mariner to keep the latter light in sight when passing out of its beam during transit.

Period: The interval of time between the commencements of two identical successive cycles of the characteristic of the light or sound signal.

Pile: A long, heavy steel, concrete or timber driven into the seabed or riverbed to serve as a support for an aid to navigation.

Port Hand Mark: A buoy or beacon which is left to the port hand when proceeding in the "Conventional Direction of Buoyage".

Preferred Channel Mark: A lateral mark indicating a channel junction or bifurcation, or a wreck or other obstruction which after consulting a chart, may be passed on either side.

Primary Aid to Navigation: An aid to navigation established for the purpose of making landfalls and coastwise passages from headland to headland.

Quick Light: A light exhibiting very rapid regular alternations of light and darkness, normally 60 flashes per minute.

RACON: A radar beacon which produces a coded response or radar paint, when triggered by a radar signal.

Radar: An electronic system designed to transmit radio signals and receive reflected images of those signals from a "target" in order to determine the bearing and distance to the "target".

Radar Reflector: A special fixture fitted to or incorporated into the design of certain aids to navigation to enhance their ability to reflect radar energy. In general, these fixtures will materially improve the aid to navigation for use by vessels with radar.

Range: A line formed by the extension of a line connecting two charted points.

Range lights: Two lights associated to form a range which often, but not necessarily, indicates the channel centerline. The front range light is the lower of the two, and nearer to the mariner using the range. The rear light is higher and further from the mariner.

Rebuilt: A fixed aid to navigation, previously destroyed, which has been restored as an aid to navigation.

Regulatory Marks: A white and orange aid to navigation with no lateral significance. Used to indicate a special meaning to the mariner, such as danger, restricted operations, or exclusion area.

Relighted: An extinguished aid to navigation returned to its advertised light characteristics.

Replaced: An aid to navigation previously off station, adrift, or missing, restored by another aid to navigation of the same type and characteristics.

Replaced (temporarily): An aid to navigation previously off station, adrift, or missing restored by another aid to navigation of a different type and/or characteristic.

Reset: A floating aid to navigation previously off station, adrift or missing, returned to its assigned position (station).

Rhythmic Light: A light showing intermittently with a regular periodicity.

Sector: See light sector.

Setting a Buoy: The act of placing a buoy on assigned position in the water.

Siren: A sound signal which uses electricity or compressed air to actuate either a disc or a cup shaped rotor.

Skeleton Tower: A tower, usually of steel, constructed of heavy corner members and various horizontal and diagonal bracing members.

Sound Signal: A device which transmits sound, intended to provide information to mariners during periods of restricted visibility and foul weather.

Starboard Hand Mark: A buoy or beacon which is right to the starboard hand when proceeding in the Conventional Direction of Buoyage.

Top mark: One or more relatively small objects of characteristic shape and color placed on aid to identify its purpose.

Traffic Separation Scheme: Shipping corridors marked by buoys which separate incoming from outgoing vessels. Improperly called SEA LANES.

Watching Properly: An aid to navigation on its assigned position exhibiting the advertised characteristics in all respects.

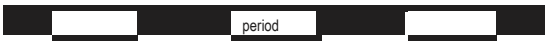
Whistle: A wave actuated sound signal on buoys which produces sound by emitting compressed air through a circumferential slot into a cylindrical bell chamber.

Winter Marker: An unlighted buoy without a sound signal, used to replace a conventional buoy when an aid to navigation is endangered by ice.

Winter Light: A light which is maintained during those winter months when the regular light is extinguished. It is of lower candlepower than the regular light, but usually the same characteristic.

Withdrawn: The discontinuance of an aid to navigation or equipment on an aid to navigation during severe ice conditions or for the winter season.

CHARACTERISTICS OF LIGHTS

Illustration	Type Description	Abbreviation
	1. FIXED. A light showing continuously and steadily.	**F**
	2. OCCULTING. A light in which the total duration of light in a period is longer than the total duration of darkness and the intervals of darkness (eclipses) are usually of equal duration	
	2.1 Single-occulting. An occulting light in which an eclipse is regularly repeated.	**Oc**
	2.2 Group-occulting. An occulting light in which a group of eclipses, specified in numbers, is regularly repeated.	**Oc (2)**
	2.3 Composite group-occulting. A light, similar to a group-occulting light, except that successive groups in a period have different numbers of eclipses.	**Oc (2+1)**
	**3.** ISOPHASE. A light in which all durations of light and darkness are equal.	**Iso**
	4. FLASHING. A light in which the total duration of light in a period is shorter than the total duration of darkness and the appearances of light (flashes) are usually of equal duration.	
	4.1 Single-flashing. A flashing light in which a flash is regularly repeated (frequency not exceeding 30 flashes per minute).	**Fl**
	4.2 Group-flashing. A flashing light in which a group of flashes, specified in number, is regularly repeated.	**Fl (2)**
	4.3 Composite group-flashing. A light similar to a group flashing light except that successive groups in the period have different numbers of	**Fl (2+1)**
	5. QUICK. A light in which flashes are produced at a rate of 60 flashes per minute.	
	5.1 Continuous quick. A quick light in which a flash is regularly repeated.	**Q**
	5.2 Interrupted quick. A quick light in which the sequence of flashes is interrupted by regularly repeated eclipses of constant and long duration.	**I Q**
	6. MORSE CODE. A light in which appearances of light of two clearly different durations (dots and dashes) are grouped to represent a character or characters in the Morse code.	**Mo (A)**
	7. FIXED AND FLASHING. A light in which a fixed light is combined with a flashing light of higher luminous intensity.	**F Fl**
	8. ALTERNATING. A light showing different colors alternately	**Al RW**

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	ILE ST. REGIS TO/A CROIL ISLANDS (Chart 1433)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
5	- *Lighted Buoy 1*	45-00-13.840N 074-40-05.670W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
10	- LIGHT 2 (C)	45-00-12.000N 074-40-30.000W	Q R	40 12		White circular tower, red top.	Seasonal.
15	- *Lighted Buoy 3*	44-59-57.580N 074-40-28.260W	Q G			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
20	- LIGHT 4 (C)	45-00-06.000N 074-41-00.000W	Fl R 4s	40 12		White circular tower, red top.	Seasonal.
25	- *Lighted Buoy 5*	44-59-53.700N 074-40-58.400W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
30	- *Lighted Buoy 5A*	44-59-56.100N 074-41-21.800W	Fl G 4s			Green.	Winter marker. Aid maintained by S.L.S.D.C.
35	- *Lighted Buoy 5B*	44-59-58.400N 074-41-44.700W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
40	- *Lighted Buoy 6*	45-00-00.400N 074-41-20.800W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
45	- *Lighted Buoy 6A*	45-00-02.800N 074-41-43.700W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
50	- *Lighted Buoy 7*	45-00-00.700N 074-42-07.300W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
55	- *Lighted Buoy 8*	45-00-05.100N 074-42-06.600W	Fl R 4s			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
60	- *Lighted Buoy 9*	44-59-58.900N 074-42-38.700W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
65	- LIGHT 10 SECTOR (C)	45-00-06.000N 074-42-54.000W	F W (R & G Sectors)	54 16		White skeleton tower on pile crib with orange triangular daymark.	Red 276° to 277.8°; white 277.8° to 279.3°; green 279.3° to 281°. White sector indicates preferred channel. Seasonal.
66	- LIGHT 10 DIRECTION (C)	45-00-06.000N 074-42-54.000W	F R	51 16		White skeleton tower on pile crib with orange triangular daymark.	Visible from 044.5° to 051.5°. Increased intensity on a bearing of 048°. Seasonal.
70	- LIGHT 11	44-59-48.000N 074-43-06.000W	Fl G 2.5s	28 9		SG on pile.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
75	- LIGHT 13	44-59-36.000N 074-43-24.000W	Fl G 4s	28 9		SG on pile.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
80	- *Lighted Buoy 14*	44-59-25.400N 074-44-19.200W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
85	- *Lighted Buoy 15*	44-59-23.600N 074-43-42.400W	Q G			Green.	Aid maintained by S.L.S.D.C.
90	Aluminum Foundry Water Intake Buoy	44-59-21.000N 074-44-02.000W				Yellow.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	ILE ST. REGIS TO/A CROIL ISLANDS (Chart 1433)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
95	- *Lighted Buoy 16*	44-59-27.100N 074-45-25.600W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
100	- *Lighted Buoy 17*	44-59-16.500N 074-45-16.300W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
105	POLLY'S GUT TRAINING DIKE EAST END LIGHT A	44-59-27.600N 074-45-46.200W	Q Y	15 5		On white pile.	Aid maintained by S.L.S.D.C.
110	POLLY'S GUT TRAINING DIKE WEST END LIGHT B	44-59-27.600N 074-45-46.200W	Q Y	6 2		On box.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
115	POLLY'S GUT TRAINING DIKE A LIGHT C	44-59-30.000N 074-45-48.000W	Q Y	15 5		On white pile.	Aid maintained by S.L.S.D.C.
125	- Buoy 19	44-59-14.900N 074-46-00.300W				Green can.	Aid maintained by S.L.S.D.C.
130	- LIGHT 20	44-59-24.500N 074-45-59.900W	F R	28 9		TR on wall.	Aid maintained by S.L.S.D.C.
145	- LIGHT 24	44-59-13.900N 074-47-10.200W	F R	28 9		TR on wall.	Aid maintained by S.L.S.D.C.
150	- LIGHT 25 About 75 feet outside channel limit.	44-59-08.400N 074-47-09.300W	Fl G 2.5s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
155	- *Lighted Buoy 26*	44-59-10.590N 074-47-35.650W	Fl R 4s				Aid maintained by S.L.S.D.C.
160	- MOORING CELLS LIGHT A	44-59-05.200N 074-47-44.300W	F Y	15 5			Aid maintained by S.L.S.D.C.
165	- MOORING CELLS LIGHT B	44-59-04.300N 074-47-53.000W	F Y	15 5			Aid maintained by S.L.S.D.C.
170	- LIGHT 28 About 63 feet outside channel limit.	44-59-05.700N 074-48-31.100W	Fl R 4s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
175	- LIGHT 29 About 73 feet outside channel limit.	44-59-00.600N 074-48-29.700W	Fl G 4s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
180	- LIGHT 30 About 50 feet outside channel limit.	44-58-58.900N 074-49-24.300W	Fl R 2.5s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
185	- LIGHT 31	44-58-53.900N 074-49-23.100W	Fl G 2.5s	28 9		SG on cell.	Aid maintained by S.L.S.D.C.
190	- MOORING CELLS LIGHT C	44-58-52.900N 074-49-31.700W	F Y	15 5			Aid maintained by S.L.S.D.C.
195	- *Lighted Buoy 32*	44-58-53.500N 074-50-02.700W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
205	- *Lighted Buoy 33*	44-58-47.400N 074-50-15.600W	Fl G 4s			Green.	Year round lighted buoy. Aid maintained by S.L.S.D.C.
210	- LIGHT 34	44-58-54.000N 074-50-30.000W	F R	28 9		TR on wall.	Aid maintained by S.L.S.D.C.
225	- LIGHT 38	44-58-43.900N 074-51-35.200W	F R	28 9		TR on wall.	Aid maintained by S.L.S.D.C.
235	- *Lighted Buoy 39*	44-58-36.800N 074-51-41.900W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
240	- *Lighted Buoy 40*	44-58-40.000N 074-51-55.000W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
245	- MOORING CELLS LIGHT D	44-58-25.400N 074-52-51.900W	F Y	15 5			Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	ILE ST. REGIS TO/A CROIL ISLANDS (Chart 1433)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
250	- LIGHT 41		Fl G 2.5s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
255	- LIGHT 42 About 55 feet outside channel limit.	44-58-29.000N 074-53-02.000W	Fl R 2.5s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
260	- LIGHT 43 About 55 feet outside channel limit.	44-58-16.100N 074-53-44.400W	Fl G 4s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
265	- LIGHT 44 About 50 feet outside channel limit.	44-58-21.800N 074-53-46.300W	Fl R 4s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
270	- LIGHT 45 About 75 feet outside channel limit.	44-58-07.300N 074-54-37.500W	Fl G 2.5s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
275	- LIGHT 46 About 55 feet outside channel limit.	44-58-13.000N 074-54-39.400W	Fl R 2.5s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
280	- *Lighted Buoy 46A*	44-58-07.100N 074-55-10.200W	Fl R 4s			Red.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
285	- LIGHT 47	44-57-54.000N 074-55-42.000W	Fl G 4s	28 9		SG on cell.	Maintained from Apr. 15 to Dec. 15. Aid maintained by S.L.S.D.C.
290	- LIGHT 48 About 50 feet outside channel limit.	44-58-02.000N 074-55-45.260W	Fl R 4s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
295	- *Lighted Buoy 48A*	44-57-56.700N 074-56-12.100W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
300	- *Lighted Buoy 49*	44-57-49.400N 074-56-28.800W	Fl G 4s			Green.	Winter marker. Aid maintained by S.L.S.D.C.
305	- *Lighted Buoy 50*	44-57-50.000N 074-56-51.400W	Fl R 4s			Red.	Year Round Lighted Buoy Aid maintained by S.L.S.D.C.
310	- LIGHT 51	44-57-38.200N 074-57-32.400W	Fl G 4s	28 9		SG on tower.	Aid maintained by S.L.S.D.C.
315	- *Lighted Buoy 52*	44-57-42.400N 074-57-39.200W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
320	- LIGHT 54	44-57-40.600N 074-57-52.200W	Fl R 2.5s	28 9		TR on pile.	Mainatained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
325	- LIGHT 55 About 60 feet outside channel limit.	44-57-30.000N 074-58-06.000W	Fl G 2.5s	28 9		SG on pile.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
330	- *Lighted Buoy 56*	44-57-38.300N 074-58-02.100W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CROIL ISLAND TO/A CARDINAL (Chart 1434)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
335	- LIGHT 57 About 125 feet outside channel limit.		Q G	30 9		SG on tower on cell.	Aid maintained by S.L.S.D.C.
	Lake St. Lawrence Yacht Club Channel *Buoys maintained from May 1 to Oct. 1.*						
336.1	- Buoy 1	44-56-31.000N 074-59-57.094W				Green can.	Private aid.
336.15	- Buoy 2	44-56-32.068N 074-59-58.052W				Red nun.	Private aid.
336.2	- Buoy 3	44-56-26.000N 074-59-56.099W				Green can.	Private aid.
336.25	- Buoy 4	44-56-24.068N 074-59-56.055W				Red nun.	Private aid.
336.3	- Buoy 5	44-56-21.000N 074-59-59.021W				Green can.	Private aid.
336.35	- Buoy 6	44-56-20.710N 075-00-00.034W				Red nun.	Private aid.
336.4	- Buoy 7	44-56-20.029N 074-59-57.057W				Green can.	Private aid.
336.45	- Buoy 8	44-56-18.008N 074-59-59.018W				Red nun.	Private aid.
336.5	- Buoy 9	44-56-20.350N 074-59-54.670W				Green can.	Private aid.
336.55	- Buoy 10	44-56-21.019N 074-59-56.090W				Red nun.	Private aid.
336.6	- Buoy 11	44-56-20.270N 074-59-52.870W				Green can.	Private aid.
336.65	- Buoy 12	44-56-21.005N 074-59-54.350W				Red nun.	Private aid.
340	- LIGHT 58 About 175 feet outside channel limit.	44-57-04.400N 075-00-22.000W	Fl R 4s	28 9		TR on tower on cell.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
345	CAT ISLAND LEADING LIGHT	44-57-12.000N 075-00-24.000W	F W			NB on cells.	Visible 4° each side of 257.4° Aid maintained by S.L.S.D.C.
350	- *Lighted Buoy 60* Marks shoal.	44-56-56.900N 075-00-30.800W	Q R			Red.	Winter marker. Aid maintained by S.L.S.D.C.
	Wilson Hill Small Boat Channel *Buoys maintained from Apr. 30 to Sep. 30.*						
351	- Buoy 1	44-56-24.410N 075-00-31.065W				Green can.	Private aid.
351.05	- Buoy 2	44-56-23.042N 075-00-37.072W				Red nun.	Private aid.
351.1	- Buoy 3	44-56-13.000N 075-00-31.000W				Green can.	Private aid.
351.15	- Buoy 4	44-56-13.078N 075-00-32.000W				Red nun.	Private aid.
351.2	- Buoy 5	44-56-08.069N 075-00-28.078W				Green can.	Private aid.
351.25	- Buoy 6	44-56-10.000N 075-00-33.310W				Red nun.	Private aid.
351.3	- Buoy 7	44-56-00.000N 075-00-26.000W				Green can.	Private aid.
351.35	- Buoy 8	44-56-03.240N 075-00-27.004W				Red nun.	Private aid.
351.4	- Buoy 9	44-55-58.058N 075-00-36.062W				Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CROIL ISLAND TO/A CARDINAL (Chart 1434)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
	Wilson Hill Small Boat Channel *Buoys maintained from Apr. 30 to Sep. 30.*						
351.45	- Buoy 10	44-56-00.021N 075-00-36.032W				Red nun.	Private aid.
351.5	- Buoy 11	44-55-50.079N 075-00-41.062W				Green can.	Private aid.
351.55	- Buoy 12	44-55-51.000N 075-00-42.000W				Red nun.	Private aid.
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
355	- *Lighted Buoy 61*	44-56-31.700N 075-01-21.300W	Fl G 4s			Green.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
360	WILSON HILL RANGE FRONT LIGHT	44-57-00.000N 074-59-42.000W	F G	28 9		Orange triangular daymark with black stripes on square tower.	Aid maintained by S.L.S.D.C.
365	WILSON HILL RANGE REAR LIGHT 1,500 feet, 068.7º from front light.		F G	58 18		Orange triangular daymark with black stripes on square tower.	Aid maintained by S.L.S.D.C.
370	- *Lighted Buoy 63*	44-56-22.100N 075-01-55.800W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
375	*Weaver Shoal Anchorage Area E Lighted Buoy XA (C)*	44-56-54.000N 075-01-54.000W	Fl Y 4s			Yellow.	Seasonal.
380	*Weaver Shoal Anchorage Area W Lighted Buoy XC (C)*	44-56-30.000N 075-03-24.000W	Fl Y 4s			Yellow.	Seasonal.
385	- *Lighted Buoy 67*	44-55-50.500N 075-03-45.300W	Fl G 4s			Green.	Winter marker. Aid maintained by S.L.S.D.C.
390	- LIGHT 68 (C) Marks Weaver Shoal.	44-55-54.000N 074-04-06.000W	Q R	45 14		White circular tower.	
395	- LIGHT 70 (C)	44-55-48.000N 075-04-48.000W	Fl R 4s	29 9		White circular tower with red top.	Seasonal.
400	- LIGHT 71	44-55-30.500N 075-04-54.500W	Fl G 4s	23 7		SG on pile.	Aid maintained by S.L.S.D.C.
410	- *Lighted Buoy 72 (C)*	44-55-48.000N 075-05-30.000W	Q R			Red.	Seasonal.
415	- LIGHT 73	44-55-33.500N 075-05-43.100W	Fl G 2.5s	30 9		SG on tower on cell.	RACON: M (- -) Aid maintained by S.L.S.D.C.
420	- *Lighted Buoy 74 (C)*	44-55-24.000N 075-06-36.000W	Fl R 4s			Red.	Seasonal.
425	DORAN SHOAL RANGE FRONT LIGHT (C)	44-56-00.000N 075-06-48.000W	F Y	33 10		Orange triangular daymark with black stripes on skeleton tower.	Seasonal.
430	DORAN SHOAL RANGE REAR LIGHT (C) 1,225 feet, 040.2º from front light.		F Y	56 17		Orange triangular daymark with black stripes on skeleton tower.	Seasonal.
	Coles Creek Channel *These private aids best mark the channel and may shift as channel conditions warrant. Maintained from Apr. 30 to Sept. 30.*						
435	- *Lighted Buoy 1*	44-54-15.000N 075-06-44.000W	Fl G 4s			Green.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CROIL ISLAND TO/A CARDINAL (Chart 1434)(C)						
	Coles Creek Channel						
	These private aids best mark the channel and may shift as channel conditions warrant. Maintained from Apr. 30 to Sept. 30.						
440	- *Lighted Buoy 2*	44-54-09.500N 075-06-55.000W	Fl R 4s			Red.	Private aid.
445	- *Lighted Buoy 3*	44-53-52.000N 075-06-47.000W	Fl G 4s			Green.	Private aid.
450	- *Lighted Buoy 4*	44-53-44.000N 075-06-57.500W	Fl R 4s			Red.	Private aid.
455	- *Lighted Buoy 5*	44-53-34.000N 075-06-51.000W	Fl G 4s			Green.	Private aid.
460	- *Lighted Buoy 6*	44-53-34.500N 075-07-01.000W	Fl R 4s			Red.	Private aid.
465	- *Lighted Buoy 7*	44-53-24.500N 075-06-59.000W	Fl G 4s			Green.	Private aid.
470	- *Lighted Buoy 8*	44-53-27.000N 075-07-01.500W	Fl R 4s			Red.	Private aid.
475	- *Lighted Buoy 9*	44-53-23.000N 075-07-05.000W	Fl G 4s			Green.	Private aid.
480	- *Lighted Buoy 10*	44-53-27.000N 075-07-04.500W	Fl R 4s			Red.	Private aid.
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
485	- LIGHT 75 About 100 feet outside channel limit.	44-55-10.600N 075-06-59.300W	Fl G 4s	30 9		SG on tower on cell.	Aid maintained by S.L.S.D.C.
490	- *Lighted Buoy 77*	44-55-04.800N 075-07-34.000W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
495	WEAVER SHOAL RANGE FRONT LIGHT (C)	44-55-30.000N 075-07-54.000W	F W	33 10		White triangular daymark with black stripe on skeleton tower.	Seasonal.
500	WEAVER SHOAL RANGE REAR LIGHT (C) 1,520 feet, 262º from front light.		F W	56 17		White inverted triangular daymark with black stripe on skeleton tower.	Seasonal.
505	- *Lighted Buoy 78 (C)*		Q R			Red.	Seasonal.
510	- LIGHT 79 About 70 feet outside channel limit.	44-54-50.100N 075-08-01.300W	Q G	30 9		SG on tower on cell.	Aid maintained by S.L.S.D.C.
515	GOOSE NECK ISLAND SHOALS RANGE FRONT LIGHT (C)	44-54-54.000N 075-08-48.000W	F R	33 10		Orange triangular daymark with black stripes on skeleton tower.	Seasonal.
520	GOOSE NECK ISLAND SHOALS RANGE REAR LIGHT (C) 470 feet, 255º from front light.		F R	45 14		Orange inverted daymark with black stripes on skeleton tower.	Seasonal.
530	- LIGHT 81 (C) Marks Doran Shoal.	44-54-00.000N 075-09-00.000W	Q G	37 11		White circular tower with green band at top.	Seasonal.
535	- LIGHT 82 (C) About 150 feet outside channel limits.	44-54-06.000N 075-09-12.000W	Fl R 4s	29 9		White circular tower with red top.	Seasonal.
540	- *Lighted Buoy 84 (C)*	44-53-48.000N 075-09-42.000W	Fl R 4s			Red.	Seasonal.
550	- LIGHT 85		Fl G 4s	10 3		SG on tower on cell.	Maintained from Apr. 15 to Dec. 15. Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CROIL ISLAND TO/A CARDINAL (Chart 1434)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
555	- *Lighted Buoy 86 (C)*	44-53-12.000N 075-11-00.000W	Fl R 4s			Red.	Seasonal.
560	*Canada Island Anchorage Area N Lighted Buoy XJ (C)*	44-53-36.000N 075-10-30.000W	Fl Y 4s			Yellow.	Seasonal.
565	- *Lighted Buoy 87*	44-53-19.900N 075-10-28.100W	Fl G 4s			Green.	Winter marker. Aid maintained by S.L.S.D.C.
570	- *Lighted Buoy 88 (C)*	44-53-06.000N 075-11-24.000W	Fl R 4s			Red.	
575	- *Lighted Buoy 89* Marks northwest side of Clark Island Shoal.	44-53-00.200N 075-11-10.900W	Fl G 4s			Green.	Can Winter Mark Aid maintained by S.L.S.D.C.
580	OGDEN ISLAND RANGE FRONT LIGHT	44-52-48.000N 075-11-42.000W	F G	28 9		Orange triangular daymark with black stripes on skeleton tower on cell.	Aid maintained by S.L.S.D.C.
585	OGDEN ISLAND RANGE REAR LIGHT 950 feet, 237.3º from front light.		F G	52 16		Orange triangular daymark with black stripes on square tower.	Aid maintained by S.L.S.D.C.
590	- *Lighted Buoy 91*	44-52-54.500N 075-11-40.300W	Fl G 4s			Green.	Can Winter Mark Aid maintained by S.L.S.D.C.
595	- LIGHT 92 (C)	44-52-54.000N 075-12-12.000W	Fl R 4s	36 11		White circular tower with red top.	Seasonal.
600	MARIATOWN RANGE FRONT LIGHT (C)	44-53-00.000N 075-12-36.000W	F G	33 10		Orange triagular daymark with black stripes on white skeleton tower.	Seasonal.
605	MARIATOWN RANGE REAR LIGHT (C) 443 feet, 057º from front light.		F G	47 14		Orange inverted triangular daymark with black stripes on white skeleton tower.	Seasonal.
610	- *Lighted Buoy 92A (C)*	44-52-48.000N 075-12-36.000W	Fl R 4s			Red.	Seasonal.
615	- *Lighted Buoy 93*	44-52-37.300N 075-13-03.400W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
620	- *Lighted Buoy 94 (C)*		Q R			Red.	Seasonal.
625	- *Lighted Buoy 95 (C)*	44-52-30.000N 075-13-24.000W	Fl G 4s			Green.	Seasonal.
630	- LIGHT 96 (C)		Fl R 4s	27 8	7	White circular tower with red top.	Seasonal.
635	MARIATOWN APPROACH RANGE FRONT LIGHT (C)	44-52-36.000N 075-13-42.000W	F R	38 12		Orange triangular daymark with black stripe on white skeleton tower.	
640	MARIATOWN APPROACH RANGE REAR LIGHT (C) 500 feet, 255.4º from front light.		F R	53 16		Orange triangular daymark with black stripe on white skeleton tower.	Seasonal.
645	- *Lighted Buoy 96A (C)*	44-52-18.000N 075-14-00.000W	Fl R 4s			Red.	Seasonal.
650	- *Lighted Buoy 98 (C)*		Fl R 4s			Red.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CROIL ISLAND TO/A CARDINAL (Chart 1434)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
655	- *Lighted Buoy 99*	44-51-56.300N 075-14-33.300W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
660	- *Lighted Buoy 100 (C)*	44-51-36.000N 075-15-18.000W	Q R			Red.	Seasonal.
665	- *Lighted Buoy 101* Marks shoal.	44-51-26.500N 075-15-20.000W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
670	- *Lighted Buoy 102 (C)*	44-51-30.000N 075-15-42.000W	Fl R 4s			Red.	Seasonal.
675	- *Lighted Buoy 103*	44-51-16.000N 075-16-03.500W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
680	- *Lighted Buoy 104 (C)*	44-51-18.000N 075-16-24.000W	Q R			Red.	Seasonal.
685	- *Lighted Buoy 105*	44-51-04.300N 075-16-35.000W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
700	- *Lighted Buoy 107A (C)*		Fl G 4s			Green boat-shaped buoy.	Seasonal.
705	IROQUOIS LOCK RANGE FRONT LIGHT (C)	44-50-42.000N 075-18-12.000W	F W	33 10		Orange triangular daymark with black stripes on white skeleton tower.	Seasonal.
710	IROQUOIS LOCK RANGE REAR LIGHT (C) 745 feet, 026.3º from front light.		F W	43 13		Orange triangular daymark with black stripes on white skeleton tower.	Seasonal.
715	- *Lighted Buoy 108 (C)*		Q R			Red.	Seasonal.
720	- *Lighted Buoy 108A (C)*	44-50-24.000N 075-18-30.000W	Fl R 4s			Red.	Seasonal.
725	IROQUOIS APPROACH RANGE FRONT LIGHT (C)	44-50-24.000N 075-18-36.000W	F R	32 10		Orange triangular daymark with black stripes on white skeleton tower.	Seasonal.
730	IROQUOIS APPROACH RANGE REAR LIGHT (C) 601 feet, 241.4º from front light.		F R	47 14		Orange triangular daymark with black stripes on white skeleton tower.	Seasonal.
735	- *Lighted Buoy 109 (C)*		Q G			Green boat-shaped buoy.	Seasonal.
745	- LIGHT 111 (C)		Fl G 4s	46 14		Orange triangular daymark on white skeleton tower.	Seasonal.
755	- *Lighted Buoy 112 (C)*	44-49-00.000N 075-19-30.000W	Fl R 4s			Red.	Seasonal.
760	- *Lighted Buoy 113 (C)*	44-48-54.000N 075-19-18.000W	Q G			Green.	Seasonal.
765	- LIGHT 114 (C)	44-48-48.000N 075-19-48.000W	Fl R 4s	23 7		White circular tower with red top.	Seasonal.
770	TOUSSAINT ISLAND WEST LIGHT (C)	44-48-42.000N 075-20-00.000W	Iso R 2s	21 6		White circular tower with red top.	Seasonal.
775	SPARROWHAWK POINT LEADING LIGHT	44-48-06.000N 075-20-00.000W	F G	48 15		Orange triangular daymark with black stripe on post.	Higher intensity beam on bearing 205.8°. Aid maintained by S.L.S.D.C.
780	- LIGHT 115 About 200 feet outside channel limit.	44-47-56.900N 075-20-46.100W	Fl G 2.5s	28 9		SG on pile on cell.	Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CROIL ISLAND TO/A CARDINAL (Chart 1434)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
785	- *Lighted Buoy 116*	44-47-25.800N 075-21-46.600W	Fl R 4s			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
790	- *Lighted Buoy 117*	44-47-14.400N 075-21-51.200W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
795	- *Lighted Buoy 118 (C)*	44-47-06.000N 075-22-12.000W	Fl R 4s			Red.	Seasonal.
800	- *Lighted Buoy 119*	44-46-56.700N 075-22-21.600W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
805	- *Lighted Buoy 120 (C)*	44-46-54.000N 075-22-42.000W	Fl R 4s			Red.	Seasonal.
810	GALOP ISLAND EAST RANGE FRONT LIGHT	44-46-36.000N 075-22-54.000W	F G	28 9		Orange triangular daymark with black stripes on skeleton tower.	Aid maintained by S.L.S.D.C.
815	GALOP ISLAND EAST RANGE REAR LIGHT 1,700 feet, 227º from front light.		F G	60 18		Orange triangular daymark with black stripes on square tower.	Aid maintained by S.L.S.D.C.
820	- LIGHT 121	44-46-34.800N 075-23-04.800W	Fl G 4s	28 9		SG on pile on cell.	Aid maintained by S.L.S.D.C.
835	- *Lighted Buoy 122*	44-46-25.900N 075-23-41.500W	Fl R 4s			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
	CARDINAL TO/A WHALEBACK SHOAL (Chart 1435)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
840	- LIGHT 123 About 160 feet outside channel limit.	44-46-01.000N 075-24-16.000W	Fl G 4s	28 9		White square daymark with green border on white pile.	Aid maintained by S.L.S.D.C.
843	- *Lighted Buoy 124*	44-46-00.000N 075-24-34.600W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
845	- *Lighted Buoy 125*	44-45-58.300N 075-24-24.000W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
855	- *Lighted Buoy 125A*	44-45-48.000N 075-24-39.600W	Fl G 4s			Green.	Can Winter Mark Aid maintained by S.L.S.D.C.
860	- *Lighted Buoy 126*	44-45-32.000N 075-25-10.600W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
865	- *Lighted Buoy 127*	44-45-23.200N 075-25-10.600W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
870	DRUMMOND ISLAND RANGE FRONT LIGHT (C)	44-45-30.000N 075-25-36.000W	Iso R 2s	45 14		Orange inverted triangular daymark with black stripe on white skeleton tower.	Seasonal.
875	DRUMMOND ISLAND RANGE REAR LIGHT (C) 3,168 feet, 236.5º from front light.		F R	70 21		Orange inverted triangular daymark with black stripes on skeleton tower.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CARDINAL TO/A WHALEBACK SHOAL (Chart 1435)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
880	GALOP ISLAND WEST RANGE FRONT LIGHT	44-45-12.000N 075-25-12.000W	F G	28 9		Orange triangular daymark with black stripes on skeleton tower.	Aid maintained by S.L.S.D.C.
885	GALOP ISLAND WEST RANGE REAR LIGHT 1,296 feet, 058.0º from front light.	44-45-18.000N 075-24-54.000W	F G	48 15		Orange triangular daymark with black stripes on skeleton tower.	Aid maintained by S.L.S.D.C.
890	- *Lighted Buoy 126A*	44-45-01.900N 075-25-47.500W	Q R			Red.	Aid maintained by S.L.S.D.C.
895	- ICE BOOM CELL LIGHT C Marks location of anchors, cables and pile cells.	44-44-53.000N 075-25-40.000W	F Y	12 4		Post on cell.	Private aid.
900	- *Lighted Buoy 129*	44-44-49.000N 075-25-52.800W	Q G			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
905	- *Lighted Buoy 128*	44-44-47.200N 075-26-12.000W	Fl R 4s			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
910	CHIMNEY ISLAND LEADING LIGHT	44-44-30.000N 075-26-24.000W	F W (R & G sectors)	28 9		On post.	Red from 220.4° to 221.3°, white from 221.3° to 222.2°, green from 222.2° to 223.2°. Aid maintained by S.L.S.D.C.
925	- *Lighted Buoy 130A (C)*		Fl R 4s			Red.	Seasonal.
940	- *Lighted Buoy 131 (C)*	44-44-18.000N 075-27-06.000W	Fl G 4s			Green.	Seasonal.
950	- *Lighted Buoy 131A (C)*	44-43-42.000N 075-28-00.000W	Fl G 4s			Green.	Seasonal.
955	- ICE BOOM CELL LIGHT B Marks location of anchors, cables and pile cells.	44-43-23.000N 075-27-54.000W	F Y	12 4		White post on cell.	Private aid.
960	- *Lighted Buoy 131B*	44-43-07.900N 075-28-36.300W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
965	- *Lighted Buoy 132 (C)*	44-43-06.000N 075-29-06.000W	Fl R 4s			Red.	Seasonal.
970	- *Lighted Buoy 133*	44-42-18.600N 075-30-15.800W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
975	PRESCOTT HERITAGE HARBOUR LIGHT (C)	44-42-36.000N 075-30-36.000W	Iso G 4s	25 8		White lighthouse with green top.	Seasonal.
	Ogdensburg Harbor						
985	- *East Entrance Lighted Buoy 2*	44-42-33.200N 075-29-13.500W	Fl R 4s		4	Red.	Maintained from Apr. 1 to Dec. 15 Aid maintained by S.L.S.D.C.
990	- *East Entrance Lighted Buoy 4*	44-42-22.500N 075-29-20.600W	Fl R 4s		4	Red.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
992	- LIGHT	44-41-52.000N 075-30-12.000W	Fl W 10s	70 21			Private aid.
995	- *West Entrance Lighted Buoy 2*	44-42-06.150N 075-30-21.990W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Nov 28. Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CARDINAL TO/A WHALEBACK SHOAL (Chart 1435)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
	Ogdensburg Harbor						
1000	- West Entrance Buoy 3	44-41-58.390N 075-30-04.220W				Green can.	Maintained from Apr 28 to Nov 28. Aid maintained by S.L.S.D.C.
1005	- West Entrance Buoy 4	44-41-54.400N 075-30-11.300W				Red nun.	Maintained from Apr 28 to Nov 28. Aid maintained by S.L.S.D.C.
1010	- *West Entrance Lighted Buoy 5*	44-41-57.940N 075-29-56.800W	Fl G 4s		4	Green.	Maintained from Apr 28 to Nov 28 Aid maintained by S.L.S.D.C.
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1020	*Catamaran Shoal Buoy Lighted 135* Marks northwest side of shoal.	44-36-55.000N 075-37-19.400W	Fl G 4s			Green can.	Aid maintained by S.L.S.D.C.
1025	*North Mcnair Shoal Lighted Buoy 136 (C)*		Fl R 4s			Red.	Seasonal.
1035	*South Mcnair Shoal Lighted Buoy 137A (C)*	44-35-36.000N 075-40-00.000W	Fl G 4s			Green.	Seasonal.
1040	**Brockville Breakwater Light (C)**		Fl R 4s	32 10		White circular tower with red top.	Seasonal.
1045	SKELETON ISLAND LIGHT 138 (C)		Fl R 4s	37 11		White circular tower with red top.	Seasonal.
1050	*Refugee Island Shoal Lighted Buoy 139 (C)* Marks east side of shoal.		Fl G 4s			Green.	Seasonal.
1065	MCCOY ISLAND LIGHT 141 (C)		Q G	30 9		White circular tower with black top.	Seasonal.
1070	ROYAL ISLAND LIGHT 142 (C) Marks shoal.		Fl R 4s	31 9		White circular tower with red top.	Seasonal.
1075	- LIGHT 143 (C)	44-34-00.000N 075-42-24.000W	Fl G 4s	26 8		White circular tower with black top.	Seasonal.
1080	- *Lighted Buoy 143A (C)* Marks north side of shoal.	44-33-42.000N 075-42-42.000W	Fl G 4s			Green.	Seasonal.
1085	- LIGHT 144 (C) Marks McDonald Point Shoal.		Q R	28 9		White circular tower with red top.	Seasonal.
1090	STOVIN ISLAND LIGHT 145 (C)	44-33-36.000N 075-42-54.000W	Fl G 4s	34 10		White circular tower with green top.	Seasonal.
1095	NEEDLES EYE ISLAND LIGHT 146 (C)		Fl R 4s	34 10		White circular tower with red top.	Seasonal.
1100	*Derottenburg Lighted Buoy 145A (C)*		Fl G 4s			Green.	Seasonal.
1105	- *Lighted Buoy 146A (C)*		Fl R 4s			Red.	
1110	DEWATTEVILLE ISLAND RANGE FRONT LIGHT (C)	44-32-54.000N 075-44-00.000W	F W	30 9		Orange triangular daymark with black stripes on white circular tower with red top.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CARDINAL TO/A WHALEBACK SHOAL (Chart 1435)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1115	DEWATTEVILLE ISLAND RANGE REAR LIGHT (C) 1,140 feet, 036.9º from front light.		F W	69 21		Orange inverted triangular daymark with black stripes on red skeleton tower.	Visible on range line only. Seasonal.
1120	- LIGHT 147 (C)	44-32-30.000N 075-44-12.000W	Fl G 4s	30 9		White circular tower with green top.	Seasonal.
1125	- *Lighted Buoy 147A (C)*	44-32-12.000N 075-44-36.000W	Fl G 4s			Green.	Seasonal.
1130	- LIGHT 150 (C)	44-31-48.000N 075-45-18.000W	Fl R 4s	28 9		White cylindrical tower with red top.	Seasonal.
1135	*Cole Shoal Lighted Buoy 150A (C)* Marks south side of Cole Shoal.		Fl R 4s			Red.	Seasonal.
1140	- LIGHT 151 (C)	44-31-24.000N 075-45-24.000W	Fl G 4s	30 9		White circular tower with green top.	Seasonal.
1145	- *Lighted Buoy 152 (C)*	44-31-06.000N 075-46-00.000W	Fl R 4s			Red.	Seasonal.
1150	BROCKVILLE CROSSOVER RANGE FRONT LIGHT (C)	44-31-36.000N 075-45-54.000W	Iso G 2s	32 10		Orange trianglar daymark with black stripe on white circular tower.	Seasonal.
1155	BROCKVILLE CROSSOVER RANGE REAR LIGHT (C) 2,153 feet, 013.5º from front light.		F G	61 19		Orange inverted triangular daymark with black stripe on white skeleton tower.	Seasonal.
1170	- *Lighted Buoy 153*	44-30-37.400N 075-46-08.200W	Q G			Green.	RACON: M (- -) Spar; winter marker. Aid maintained by S.L.S.D.C.
1180	- LIGHT 156 Marks Bay State Shoal, about 60 feet outside channel limit.		Fl R 2.5s	30 9		TR on tower on cell.	Aid maintained by S.L.S.D.C.
1185	- *Lighted Buoy 157*	44-30-18.900N 075-46-14.400W	Fl G 4s			Green.	Winter marker. Aid maintained by S.L.S.D.C.
1190	- *Lighted Buoy 159*	44-29-48.900N 075-46-24.500W	Fl G 4s			Green.	Winter marker. Aid maintained by S.L.S.D.C.
1195	- LIGHT 160 Marks Cross Over Island Shoal, about 105 feet outside channel limit.	44-29-48.000N 075-46-36.000W	Fl R 4s	28 9		TR on tower on cell.	Aid maintained by S.L.S.D.C.
1200	- *Lighted Buoy 162*	44-28-41.500N 075-46-56.100W	Q R			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1205	- LIGHT 163 About 140 feet outside channel limit.		Fl G 2.5s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
1210	CHIPPEWA POINT DIRECTIONAL LIGHT		F W (R & G sectors)	28 9		White post.	White from 193° to 195°, red from 186° to 193°, green from 195° to 202°. Aid maintained by S.L.S.D.C.
1215	- *Lighted Buoy 163A*	44-28-22.600N 075-47-05.800W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CARDINAL TO/A WHALEBACK SHOAL (Chart 1435)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1220	- *Lighted Buoy 164*	44-28-30.500N 075-47-08.200W	Fl R 4s			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
	WHALE BACK SHOAL TO/A SUMMERLAND GROUP (Chart 1436) (C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1225	- LIGHT 165		Fl G 4s	23 7		SG on tower on cell.	Aid maintained by S.L.S.D.C.
1230	CHIMNEY ISLAND LIGHT (C)	44-28-00.000N 075-50-00.000W	Fl R 4s	18 5		White circular tower with red top.	Seasonal.
1235	HAFFIE SHOAL LIGHT (C)	44-27-30.000N 075-50-42.000W	Fl R 4s	34 10		White circular tower with red top.	
1240	- *Lighted Buoy 166*	44-27-14.000N 075-48-30.800W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1245	- *Lighted Buoy 167*	44-26-55.800N 075-48-37.400W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1250	- LIGHT 168	44-27-00.000N 075-48-48.000W	Fl R 4s	23 7		TR on pile.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
1255	- *Lighted Buoy 170*	44-26-45.100N 075-48-59.200W	Fl R 4s			Red.	Nun Winter Mark Aid maintained by S.L.S.D.C.
1260	- *Lighted Buoy 172 (C)* Marks shoal.		Fl R 4s			Red.	Seasonal.
1265	*Haskell Shoal Lighted Buoy 173 (C)* Marks north side of shoal.	44-26-12.000N 075-49-24.000W	Q G			Green.	Spar; winter marker. Seasonal.
1270	- *Lighted Buoy 176*	44-25-03.100N 075-50-26.400W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
1275	- *Lighted Buoy 177*	44-24-46.200N 075-50-30.700W	Fl G 4s			Green.	Can Winter Mark Aid maintained by S.L.S.D.C.
1280	- LIGHT 178 About 175 feet outside channel limit.		Fl R 4s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
1285	- LIGHT 179		Fl G 2.5s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
1290	- LIGHT 180 Marks Ironside Shoal.	44-23-48.000N 075-51-24.000W	Q R	28 9		TR on tower on cell.	Aid maintained by S.L.S.D.C.
1295	- *Lighted Buoy 181*	44-23-30.000N 075-51-29.100W	Fl G 4s			Green.	Can Winter Mark Aid maintained by S.L.S.D.C.
1300	- *Lighted Buoy 181A*	44-22-49.000N 075-52-25.200W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
1305	- LIGHT 182 Marks Whiskey Island Shoal, about 95 feet outside channel limit.		Fl R 4s	28 9		TR on pile.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	WHALE BACK SHOAL TO/A SUMMERLAND GROUP (Chart 1436) (C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1310	- LIGHT 183 Marks Excelsior Shoal, about 180 feet outside channel limit.	44-22-24.000N 075-53-06.000W	Fl G 4s	34 10		SG on tower on concrete base.	Aid maintained by S.L.S.D.C.
1315	- *Lighted Buoy 185*	44-22-13.200N 075-53-23.400W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
1320	- LIGHT 186 About 320 feet outside channel limit.		Fl R 4s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
	SUMMERLAND GROUP TO/A GRINDSTONE ISLAND (Chart 1437)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1325	- LIGHT 187		Fl G 4s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
1330	Hammond Shoal Buoy Marks south side of shoal.	44-20-44.800N 075-54-42.300W				Green and red bands; can.	Maintained from Apr 28 to Nov 28. Aid maintained by S.L.S.D.C.
1335	- LIGHT 189 About 290 feet outside channel limit.		Fl G 4s	30 9		SG on conical tower.	Aid maintained by S.L.S.D.C.
1340	- LIGHT 191 Marks southwest side of Sunken Rock Shoal, about 70 feet outside channel limits.		Fl G 2.5s	28 9		SG on tower on concrete base.	Aid maintained by S.L.S.D.C.
1345	- LIGHT 192 Marks Frontenac Shoal, about 25 feet outside channel limit.		Fl R 4s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
1350	Broadway Shoal Buoy Marks north side of shoal.	44-20-22.420N 075-55-15.810W				Green and red bands; can.	Maintained from Apr 28 to Nov 28. Aid maintained by S.L.S.D.C.
1353	ALEXANDRIA BAY HARBOR LIGHT	44-20-07.500N 075-55-15.800W	Fl Y 2s	3 1		On floating dock.	Maintained from Apr. 1 to Dec. 1. Private aid.
1360	- LIGHT 194 Marks Pullman Shoal, about 100 feet outside channel limit.	44-20-06.000N 075-55-48.000W	Fl R 4s	34 10		TR on tower on concrete base .	Aid maintained by S.L.S.D.C.
1365	- LIGHT 195 About 12 feet outside channel limit.		Fl G 4s	23 7		SG on pile .	Maintained from Apr . 1 to Dec. 15. Aid maintained by S.L.S.D.C.
1370	- LIGHT 197		Fl G 4s	28 9		SG on pile .	Aid maintained by S.L.S.D.C.
1375	- LIGHT 198		Fl R 4s	23 7		TR on tower on concrete base	Aid maintained by S.L.S.D.C.
1380	- LIGHT 199 Marks Comfort Island Shoal.		Fl G 2.5s	28 9		SG on tower on concrete base .	Aid maintained by S.L.S.D.C.
1385	KEEWAYDIN STATE PARK BREAKWATER LIGHT	44-19-22.000N 075-56-11.000W	Fl G 4s	10 3		Green daymark on steel post.	Maintained from May 1 to Nov 1. Private aid.
1386	*Keewaydin State Park Lighted Entrance Buoy*	44-49-20.600N 075-56-13.600W	Fl R 4s			Red.	Maintained May 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	SUMMERLAND GROUP TO/A GRINDSTONE ISLAND (Chart 1437)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1390	- LIGHT 200 About 90 feet outside channel limit.		Q R	28 9		TR on pile .	Aid maintained by S.L.S.D.C.
1395	- *Lighted Buoy 202*	44-19-22.600N 075-56-38.600W	Iso R 3s			Red.	S .L.S .D.C . Aid maintained by S.L.S.D.C.
1400	POINT VIVIAN LEADING LIGHT		F W (R & G sectors)	28 9		On post.	Red from 216.5 ° to 217.5 °, white from 217.5 ° to 218.5 °, green from 218.5° to 219.5 °. S. L.S. D.C. Aid maintained by S.L.S.D.C.
1405	- LIGHT 203 About 40 feet outside channel limit.		Fl G 4s	28 9		SG on pile .	Aid maintained by S.L.S.D.C.
1410	- LIGHT 204 About 30 feet outside channel limit.		Fl R 4s	28 9		TR on pile .	Aid maintained by S.L.S.D.C.
1415	- *Lighted Buoy 205*	44-18-53.900N 075-57-20.100W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
1420	- LIGHT 206 About 25 feet outside channel limit.	44-18-36.000N 075-58-12.000W	Iso R 2s	28 9		TR on pile .	Aid maintained by S.L.S.D.C.
1425	- LIGHT 207 About 15 feet outside channel limit.		Fl G 4s	28 9		SG on pile .	Aid maintained by S.L.S.D.C.
1430	- LIGHT 209 About 40 feet outside channel limit.	44-17-54.000N 075-59-12.000W	Fl G 2.5s	31 9		SG on tower on cell.	Aid maintained by S.L.S.D.C.
1435	- *Lighted Buoy 208*	44-17-56.700N 075-59-22.700W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1440	- *Lighted Buoy 209A*	44-17-36.700N 075-59-43.900W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
1445	- LIGHT 210 About 50 feet outside channel limit.	44-17-42.000N 075-59-54.000W	Fl R 4s	28 9		TR on pile.	Aid maintained by S.L.S.D.C.
1450	- *Lighted Buoy 211*	44-17-14.900N 076-00-21.400W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1455	- *Lighted Buoy 212*	44-17-13.700N 076-00-35.500W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1460	- LIGHT 213 40 feet outside channel limit.	44-16-54.000N 076-00-54.000W	Fl G 2.5s	31 9		SG on tower on cell.	Aid maintained by S.L.S.D.C.
1465	FISHER LANDING LIGHT	44-16-43.200N 076-00-37.700W	Fl G 4s	11 3	4	SG on column on concrete base.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
1470	- LIGHT 214 Marks east side of Granite State Shoal, about 51 feet outside channel limit.		Fl R 2.5s	28 9		TR on tower.	RACON: M (- -) Aid maintained by S.L.S.D.C.
1473	ROCK ISLAND LIGHT	44-16-51.840N 076-01-01.620W	F W				Private aid.
1475	- *Lighted Buoy 215*	44-16-46.400N 076-01-11.900W	Q G			Green.	Spar; winter maker. Aid maintained by S.L.S.D.C.
1480	- *Lighted Buoy 216*	44-16-41.600N 076-01-34.300W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	SUMMERLAND GROUP TO/A GRINDSTONE ISLAND (Chart 1437)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
1485	- Buoy 216A	44-16-34.200N 076-01-50.600W	Fl R 4s			Red nun.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
1490	- *Lighted Buoy 217*	44-16-08.700N 076-02-17.200W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1495	- *Lighted Buoy 217A*	44-15-36.000N 076-03-51.900W	Q G			Green.	Can Winter Mark Aid maintained by S.L.S.D.C.
1500	- *Lighted Buoy 218*	44-15-45.200N 076-03-45.800W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
1505	- LIGHT 219 About 68 feet outside channel limit.		Fl G 4s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
1510	- *Lighted Buoy 221* Marks west side of shoal.	44-15-28.100N 076-04-02.300W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
1515	- LIGHT 222 Marks southeast side of Chapman Shoal, about 50 feet outside channel limit.		Fl R 2.5s	28 9		TR on tower.	RACON: C (- . - .) Aid maintained by S.L.S.D.C.
	Clayton Marina						
	Buoys maintained from May 1 to Nov. 1.						
1517	- Buoy 2	44-14-29.249N 076-04-14.788W				Red nun.	Private aid.
1518	- Buoy 4	44-14-29.249N 076-04-14.788W				Red nun.	Private aid.
1519	- Buoy 6	44-15-29.249N 076-04-14.788W				Red nun.	Private aid.
1519.5	- Buoy 8	44-14-29.249N 076-04-14.788W				Red nun.	Private aid.
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
1520	*Clayton Shoal Lighted Buoy 1*	44-14-44.200N 076-05-00.900W	Fl G 4s		4	Green.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.
1523	CLAYTON CITY DOCK LIGHT	44-14-39.638N 076-04-59.159W	Fl Y 2.5s				Private aid.
1525	- *Lighted Buoy 224*	44-15-00.500N 076-05-10.900W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1527	CLAYTON FLOATING DOCK LIGHT	44-14-35.465N 076-05-17.455W	Fl W 4s	7 2		Marks NE corner of dock.	Maintained from Apr. 1 to Dec. 31. Private aid.
1530	MARY STREET DOCK LIGHT	44-14-12.300N 076-05-28.800W	F G	12 4		On steel post.	Private aid.
1545	- *Lighted Buoy 225* Marks shoal.	44-14-33.400N 076-06-03.400W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1550	- LIGHT 226 Marks Calumet Shoal, about 188 feet outside channel limit.		Fl R 2.5s	23 7		TR on pile.	Maintained from Apr. 1 to Dec. 15. Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	SUMMERLAND GROUP TO/A GRINDSTONE ISLAND (Chart 1437)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
1555	- *Lighted Buoy 226A*	44-14-40.800N 076-06-04.200W	Fl R 4s			Red.	Winter marker. Aid maintained by S.L.S.D.C.
1560	- LIGHT 227 About 322 feet outside channel limit.	44-14-24.000N 076-06-30.000W	F G	23 7		SG on tower on concrete base.	Aid maintained by S.L.S.D.C.
	GRINDSTONE ISLAND TO/A CARLETON ISLAND (Chart 1438)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
1565	- Buoy 228 Marks shoal.	44-14-31.600N 076-07-03.500W	Fl R 4s			Red nun.	Aid maintained by S.L.S.D.C.
1570	- LIGHT 229	44-13-12.000N 076-09-36.000W	Fl G 2.5s	28 9		SG on pile.	Aid maintained by S.L.S.D.C.
	CARDINAL TO/A WHALEBACK SHOAL (Chart 1435)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
	Wolfe Island Cut						
1575	- *Lighted Buoy Pv2 (C)*	44-14-00.000N 076-10-30.000W	Q R			Red.	Seasonal.
1580	- *Lighted Buoy Pv1 (C)*		Fl G 4s			Green.	Seasonal.
1595	- *North Lighted Buoy Pv6 (C)*		Fl R 4s			Red.	Seasonal.
	GRINDSTONE ISLAND TO/A CARLETON ISLAND (Chart 1438)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
1605	**Wolfe Island Light (C)**	44-14-18.000N 076-11-00.000W	F W	37 11	12	White pyramid tower.	Seasonal.
1610	- LIGHT 231	44-12-18.000N 076-12-24.000W	Fl G 4s	33 10		SG on tower on concrete base.	Aid maintained by S.L.S.D.C.
1615	- *Lighted Buoy 233* Marks north side of shoal.	44-12-02.600N 076-13-36.800W	Fl G 4s			Green.	Year Round Lighted Buoy Aid maintained by S.L.S.D.C.
1625	- *Lighted Buoy 234*	44-12-12.500N 076-15-03.200W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1630	- *Lighted Buoy 235*	44-11-40.100N 076-17-55.700W	Q G			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1635	BAYFIELD ISLAND LIGHT (C)	44-11-39.300N 076-19-42.400W		38 12		White square skeleton tower with orange triangular daymark.	F R 260.5° to 262°, Al WR 262° to 262.25°, W phase increasing with bearing, F W 262.25° to 263.75°, Al WG 263.75° to 264°, G phase increasing with bearing, F G 264° to 265.5°. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	GRINDSTONE ISLAND TO/A CARLETON ISLAND (Chart 1438)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1640	- *Lighted Buoy 237*	44-11-20.800N 076-18-28.000W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1645	- *Lighted Buoy 236*	44-11-21.200N 076-19-06.200W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1650	- *Lighted Buoy 238*	44-10-05.100N 076-19-27.100W	Fl R 4s			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1655	IRVINE POINT RANGE FRONT LIGHT (C)	44-12-18.000N 076-18-36.000W	F R	35 11		Orange rectangular daymark with black vertical stripe on white skeleton tower.	Visible on range line only. Seasonal.
1660	IRVINE POINT RANGE REAR LIGHT (C) 2,560 feet, 013.3º from front light.		F R	70 21		Orange rectangular daymark with black vertical stripe on white skeleton tower.	Visible on range line only. Seasonal.
1665	- *Lighted Buoy 239*	44-10-31.600N 076-19-05.100W	Fl G 4s			Green.	Spar; winter marker. Aid maintained by S.L.S.D.C.
1670	CARLETON ISLAND LEADING LIGHT	44-10-12.000N 076-18-42.000W	F G	29 9		Orange triangular daymark with black stripes on square tower.	Visible on bearing 033° only. Aid maintained by S.L.S.D.C.
1675	- *Lighted Buoy 240*	44-09-04.700N 076-19-49.300W	Q R			Red.	Spar; winter marker. Aid maintained by S.L.S.D.C.
	CARLETON ISLAND TO/A CHARITY SHOAL (Chart 1439)(C)						
	St. Lawrence Seaway *Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.*						
1680	- *Lighted Buoy 241*	44-08-38.900N 076-19-31.700W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
1685	Carleton Island South Channel Buoy 1	44-10-00.000N 076-17-48.510W				Green can.	Maintained from Apr 28 to Nov 28. Aid maintained by S.L.S.D.C.
1690	Carleton Island South Channel Buoy 3	44-09-53.930N 076-18-18.740W				Green can.	Maintained from Apr 28 to Nov 28. Aid maintained by S.L.S.D.C.
1695	Carleton Island South Channel Buoy 5	44-09-45.760N 076-18-48.440W				Green can.	Maintained from Apr 28 to Nov 28. Aid maintained by S.L.S.D.C.
1700	CAPE VINCENT BREAKWATER EAST END LIGHT	44-07-56.900N 076-19-49.500W	Q W	20 6	6	SG on post.	Aid maintained by S.L.S.D.C.
1705	CAPE VINCENT BREAKWATER WEST END LIGHT	44-07-53.200N 076-20-07.200W	F R	20 6	6	TR on post.	Higher intensity on bearing 068° and 193°. Aid maintained by S.L.S.D.C.
1710	- *Lighted Buoy 242*	44-08-01.700N 076-20-57.500W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. LAWRENCE RIVER				
	CARLETON ISLAND TO/A CHARITY SHOAL (Chart 1439)(C)						
	St. Lawrence Seaway						
	Aids listed S.L.S.D.C. in the remarks section are operated and maintained by the St. Lawrence Seaway Development Corporation pursuant to an agreement with the U.S. Coast Guard authorized under 14 USC 81. Lighted buoys are set out in the spring as early as ice conditions permit and are maintained until ice conditions require their removal in the fall.						
1720	- *Lighted Buoy 243*	44-07-45.600N 076-20-40.400W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
1725	- *Lighted Buoy 244* Marks shoal.	44-07-12.500N 076-22-39.400W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1735	**Tibbetts Point Light**	44-06-02.237N 076-22-14.204W	Oc W 10s	69 21	16	White conical tower. 69	Standby light of reduced intensity shows Oc W 4s. AIS MMSI: 993672194
1745	*Tibbetts Point Traffic Lighted Buoy*	44-06-02.700N 076-24-20.400W	Mo (A) W			Red and white stripes.	Aid maintained by S.L.S.D.C.
1750	- *Lighted Buoy 245*	44-05-45.400N 076-23-18.800W	Fl G 4s			Green.	Aid maintained by S.L.S.D.C.
			LAKE ONTARIO				
	CLAYTON TO FALSE DUCK ISLAND (Chart 14802)						
1755	*Allan Otty Shoal Lighted Buoy 2* Marks southeast side of shoal.	44-03-49.600N 076-27-01.100W	Fl R 4s			Red.	Aid maintained by S.L.S.D.C.
1760	EAST CHARITY SHOAL LIGHT Marks east side of Charity Shoals Group.	44-02-12.592N 076-28-52.957W	Fl W 4s	52 16	9	Tower.	
1765	*East Charity Shoal Traffic Lighted Buoy*	44-01-32.580N 076-27-16.020W	Mo (A) W			Red and white stripes.	Aid maintained by S.L.S.D.C.
1770	*Stony Island Lighted Buoy 2*	43-55-10.467N 076-17-41.054W	Fl R 4s		4	Red.	Maintained from May 7 to Nov. 14.
1775	*Point Peninsula Lighted Buoy 3*	43-56-53.113N 076-16-24.248W	Fl G 6s		4	Green.	Maintained from May 7 to Nov. 14.
	CHAUMONT, HENDERSON AND BLACK RIVER BAYS (Chart 14811)						
	Chaumont Bay						
1780	CHERRY ISLAND LIGHT	44-00-52.332N 076-11-11.676W	Fl W 4s	43 13	8	NR on white skeleton tower with enclosed base.	
1785	*Johnson Shoal Lighted Buoy 1*	44-02-59.198N 076-09-53.749W	Fl G 4s		3	Green.	Maintained from May 14 to Nov. 1.
1790	- *Junction Lighted Buoy*	44-03-21.697N 076-09-08.450W	Fl (2+1)G 6s		3	Green and red bands.	Maintained from May 14 to Nov. 1.
1795	Chaumont Harbor Daybeacon 2 Marks rock.	44-03-37.640N 076-08-15.340W				TR on pile on concrete base.	
1800	CHAUMONT HARBOR LIGHT	44-03-31.880N 076-08-45.200W	F G	30 9	6	SG on skeleton tower with enclosed base.	
1805	CRESENT MARINE PIER LIGHT	44-03-48.000N 076-08-04.300W	F R	9 3		Post.	Maintained from May 1 to Dec. 1. Private aid.
	Chaumont Shoal						
	Buoys maintained from Apr. 30 to Oct. 30. Due to shifting sandbar, buoys may be relocated without prior notice.						
1810	- Buoy A	44-03-55.674N 076-09-03.855W				White can with orange bands and diamond worded DANGER.	Private aid.
1815	- Buoy B	44-03-57.671N 076-09-01.038W				White can with orange bands and diamond worded DANGER.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	CHAUMONT, HENDERSON AND BLACK RIVER BAYS (Chart 14811)						
	Chaumont Bay						
	Chaumont Shoal						
	Buoys maintained from Apr. 30 to Oct. 30. Due to shifting sandbar, buoys may be relocated without prior notice.						
1820	- Buoy C	44-03-59.301N 076-08-56.792W				White can with orange bands and diamond worded DANGER.	Private aid.
1825	- *Lighted Buoy D*	44-05-08.000N 076-08-50.174W	Fl W 2s			White with orange bands and diamond worded DANGER.	Private aid.
1830	- Buoy E	44-04-00.000N 076-08-50.787W				White can with orange bands and diamond worded DANGER.	Private aid.
1835	- Buoy F	44-04-01.000N 076-08-52.000W				White can with orange bands and diamond worded DANGER.	Private aid.
1840	- Buoy G	44-04-02.876N 076-08-52.471W				White can with orange bands and diamond worded DANGER.	Private aid.
1845	- Buoy H	44-04-04.000N 076-08-56.000W				White can with orange bands and diamond worded DANGER.	Private aid.
	Black River Bay						
1850	SACKETS HARBOR LIGHT	43-56-37.414N 076-08-43.036W	Fl W 2.5s	57 17	5	NB on gray skeleton tower.	Light obscured by trees 092° to 157° and 242° to 267°.
1852	*Horse Island Lighted Buoy 2*	43-56-30.935N 076-09-11.955W	Fl R 4s		3	Red.	Maintained from May 14 to Nov. 01.
	Navy Point						
	Aids maintained from Jun. 1 to Nov. 1.						
1855	- LIGHT	43-57-01.300N 076-07-16.300W	Fl R 4s	27 8	4	TR on post.	
1860	- MARINE DOCK LIGHT 4	43-56-58.000N 076-07-20.000W	F R	15 5		TR on post.	Private aid.
1865	- *Marina Anchorage Lighted Buoy A*	43-56-58.000N 076-07-18.000W	Q Y			Yellow.	Private aid.
1870	- *Marina Anchorage Lighted Buoy B*	43-57-02.000N 076-07-16.800W	Q Y			Yellow.	Private aid.
1875	- *Marina Anchorage Lighted Buoy C*	43-57-03.500N 076-07-18.700W	Q Y			Yellow.	Private aid.
1880	- *Marina Anchorage Lighted Buoy D*	43-57-04.000N 076-07-23.600W	Q Y			Yellow.	Private aid.
	Black River Bay						
1882	MADISON BARRACKS MARINA ENTRANCE LIGHT	43-57-17.900N 076-06-44.900W	F R	17 5		TR on post.	Maintained from May 1 to Oct. 1. Private aid.
1885	*Black River Entrance Lighted Buoy 1*	43-59-12.000N 076-04-42.000W	Fl G 4s			Green.	Maintained from Apr. 30 to Sep. 30. Private aid.
1890	*Black River Entrance Lighted Buoy 2*	43-59-06.000N 076-04-36.000W	Fl R 4s			Red.	Maintained from Apr. 30 to Sep. 30. Private aid.
1895	- Buoy 3	43-58-53.200N 076-05-04.200W				Green can.	Maintained from Apr. 30 to Sep. 30. Private aid.
1900	- Buoy 4	43-58-53.200N 076-05-04.200W				Red spar.	Maintained from Apr. 30 to Sep. 30. Private aid.
1905	- Buoy 5	43-59-00.100N 076-04-57.900W				Green can.	Maintained from Apr. 30 to Sep. 30. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	CHAUMONT, HENDERSON AND BLACK RIVER BAYS (Chart 14811)						
	Black River Bay						
1910	- Buoy 6	43-58-56.700N 076-04-55.800W				Red spar.	Maintained from Apr. 30 to Sep. 30. Private aid.
1915	- Buoy 7	43-59-05.800N 076-04-46.200W				Green can.	Maintained from Apr. 30 to Sep. 30. Private aid.
1920	- Buoy 8	43-59-04.300N 076-04-43.900W				Red spar.	Maintained from Apr. 30 to Sep. 30. Private aid.
1925	- Buoy 9	43-59-08.800N 076-04-40.900W				Green can.	Maintained from Apr. 30 to Sep. 30. Private aid.
1930	- Buoy 10	43-59-08.800N 076-04-37.700W				Red spar.	Maintained from Apr. 30 to Sep. 30. Private aid.
1935	- Buoy 11	43-59-59.100N 076-03-30.500W				Green can.	Maintained from Apr. 30 to Sep. 30. Private aid.
	Henderson Bay						
1940	*Lime Barrel Shoal Lighted Buoy 1*	43-54-44.218N 076-11-55.739W	Fl G 4s		4	Green.	Maintained from May 7 to Nov. 14.
1943	- Buoy 1	43-54-27.500N 076-08-34.900W				Green can.	Maintained from May 14 to Nov. 1.
1945	WESTCOTT BEACH STATE PARK LIGHT 1	43-54-04.100N 076-07-38.000W	Fl G 3s	19 6		SG on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
1950	WESTCOTT BEACH STATE PARK LIGHT 2	43-54-05.000N 076-07-40.500W	Fl R 3s	19 6		TR on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
	Henderson Harbor Special Anchorage *Maintained from May 1 to Oct. 30.*						
1955	- LIGHT A	43-51-08.800N 076-12-08.900W	Fl Y 4s	5 2		On yellow post.	Private aid.
1960	- *Lighted Buoy B*	43-51-09.000N 076-12-19.000W	Fl Y 4s			Yellow.	Private aid.
1965	- *Lighted Buoy C*	43-51-23.800N 076-12-19.000W	Fl Y 4s			Yellow.	Private aid.
1970	- *Lighted Buoy D*	43-51-23.800N 076-12-09.600W	Fl Y 4s			Yellow.	Private aid.
1975	- *Lighted Buoy E*	43-51-21.700N 076-12-05.500W	Fl Y 4s			Yellow.	Private aid.
1980	- *Lighted Buoy F*	43-51-33.400N 076-12-06.200W	Fl Y 4s			Yellow.	Private aid.
1985	- LIGHT G	43-51-33.600N 076-12-00.800W	Fl Y 4s	5 2		On yellow post.	Private aid.
1990	- *Lighted Buoy H*	43-51-21.800N 076-11-58.200W	Fl Y 4s			Yellow.	Private aid.
	CLAYTON TO FALSE DUCK ISLAND (Chart 14802)						
	Henderson Bay						
1995	*Galloo Island Shoal Lighted Buoy 3* Marks southwest side of shoal.	43-53-43.518N 076-28-34.731W	Fl G 4s		4	Green.	Replaced by can from Nov. 14 to May 7.
2005	Calf Island Spit Buoy 5	43-51-38.800N 076-23-49.000W				Green can.	
2010	STONY POINT LIGHT	43-50-19.548N 076-17-55.944W	Iso R 6s	40 12	6	TR on skeleton tower.	
2015	PORT ONTARIO LIGHT	43-34-27.000N 076-12-08.000W	Fl W 2s	50 15		Cupola on three-story gray house.	Maintained from Mar. 1 to Dec. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	CLAYTON TO FALSE DUCK ISLAND (Chart 14802)						
	Henderson Bay						
	Stony Creek Bay						
	Buoys maintained from Apr. 30 to Sep. 30.						
2019	- *Lighted Channel Buoy 1*	43-48-30.000N 076-14-54.000W	Fl G 2s			Green.	Private aid.
2019.1	- *Lighted Channel Buoy 2*	43-48-30.000N 076-14-54.000W	Fl R 2s			Red.	Private aid.
2019.2	- Channel Buoy 3	43-48-30.000N 076-14-54.000W				Green can.	Private aid.
2019.3	- Channel Buoy 4	43-48-30.000N 076-14-54.000W				Red nun.	Private aid.
2020	Drowned Island Buoy 7	43-47-23.218N 076-14-38.201W				Green can.	
	SOUTH OF STONY POINT TO PORT BAY (Chart 14803)						
	Port Ontario						
2025	- LIGHT 2	43-34-39.880N 076-12-20.420W	Fl R 2.5s	36 11	4	Red and white cylindrical tower on jetty.	
2030	- LIGHT 3	43-34-38.699N 076-12-15.870W	Fl G 2.5s	34 10	3	SG on pile on jetty.	
2035	- Buoy 4	43-34-35.456N 076-12-15.005W				Red nun.	Maintained from May 14 to Nov. 1.
2040	- Buoy 6	43-34-33.287N 076-12-13.142W				Red nun.	Maintained from May 14 to Nov. 1.
2045	MEXICO POINT LIGHT	43-31-24.000N 076-15-18.000W	Fl W 5s	17 5		On aluminum post.	Maintained from Apr. 15 to Nov. 15. Private aid.
2050	MEXICO POINT BOAT LAUNCH LIGHT 1	43-31-54.000N 076-15-41.000W	Fl G 4s	10 3		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
2055	MEXICO POINT BOAT LAUNCH LIGHT 2	43-31-00.630N 076-15-52.000W	Fl R 4s	10 3		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
2056	Little Salmon River Buoy 2	43-31-45.000N 076-15-41.000W				Red can.	Maintained from May 14 to Nov. 1. Private aid.
2056.2	Little Salmon River Buoy 4	43-31-40.000N 076-15-36.000W				Red nun.	Maintained from May 14 to Nov. 1. Private aid.
2056.3	Little Salmon River Buoy 5	43-31-39.000N 076-15-33.000W				Green can.	Maintained from May 14 to Nov. 1. Private aid.
2056.4	Little Salmon River Buoy 6	43-31-32.000N 076-15-37.000W				Red nun.	Maintained from May 14 to Nov. 1. Private aid.
2056.5	Little Salmon River Buoy 7	43-31-32.000N 076-15-31.000W				Green can.	Maintained from May 14 to Nov. 1. Private aid.
2056.6	Little Salmon River Buoy 8	43-31-25.000N 076-15-34.000W				Red nun.	Maintained from May 14 to Nov. 1. Private aid.
2056.7	Little Salmon River Buoy 9	43-31-27.000N 076-15-35.000W				Green can.	Maintained from May 14 to Nov. 1. Private aid.
2056.8	Little Salmon River Buoy 10	43-31-42.000N 076-15-18.000W				Red nun.	Maintained from May 14 to Nov. 1. Private aid.
2056.9	Little Salmon River Buoy 11	43-31-43.000N 076-15-14.000W				Green can.	Maintained from May 14 to Nov. 1. Private aid.
2057	Little Salmon River Buoy 12	43-31-35.000N 076-15-08.000W				Red nun.	Maintained from May 14 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	SOUTH OF STONY POINT TO PORT BAY (Chart 14803)						
	Port Ontario						
2057.1	Little Salmon River Buoy 13	43-31-35.000N 076-15-06.000W				Green can.	Maintained from May 14 to Nov. 1. Private aid.
	Constellation Nuclear Security Zone						
2060	- No Entry Buoy A	43-31-00.000N 076-25-41.800W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr. 15. Private aid.
2060.1	- No Entry Buoy B	43-31-12.000N 076-25-42.000W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr. 15. Private aid.
2060.2	- No Entry Buoy C	43-31-19.560N 076-25-26.940W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replace by spar from Nov. 1 to Apr 15. Private aid.
2060.3	- No Entry Buoy D	43-31-27.010N 076-25-11.940W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr 15. Private aid.
2060.4	- No Entry Buoy E	43-31-34.500N 076-24-56.820W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. to Apr. 15. Private aid.
2060.5	- No Entry Buoy F	43-31-37.860N 076-24-39.300W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr 15. Private aid.
2060.6	- No Entry Buoy G	43-31-39.660N 076-24-21.240W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr 15. Private aid.
2060.7	- No Entry Buoy H	43-31-41.760N 076-24-03.240W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr. 15. Private aid.
2060.8	- No Entry Buoy I	43-31-44.000N 076-23-45.240W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr. 15. Private aid.
2060.9	- No Entry Buoy J	43-31-45.800N 076-23-28.620W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr. 15. Private aid.
2061	- No Entry Buoy K	43-31-48.000N 076-23-12.000W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	SOUTH OF STONY POINT TO PORT BAY (Chart 14803)						
	Port Ontario						
	Constellation Nuclear Security Zone						
2061.1	- No Entry Buoy L	43-31-35.640N 076-23-12.000W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replaced by spar from Nov. 1 to Apr 15. Private aid.
	OSWEGO HARBOR (Chart 14813)						
	Oswego Harbor						
2065	- DETACHED BREAKWATER WEST END LIGHT	43-28-34.550N 076-30-57.820W	Fl G 4s	30 9	6	SG on gray post.	Vessels enroute to or from harbor should use new lake approach channel to westward of Oswego Detached Breakwater.
2070	- DETACHED BREAKWATER EAST END LIGHT	43-28-32.413N 076-30-46.986W	Fl Y 4s	30 9	7	NB on gray post.	Vessels enroute to or from harbor should use new lake approach channel to westward of Oswego Detached Breakwater.
2075	- EAST BREAKWATER LIGHT	43-28-25.789N 076-30-51.287W	Fl G 6s	43 13	6	SG on gray post.	
2080	**- West Pierhead Light**	43-28-23.735N 076-31-01.352W	Fl R 10s	57 17	11		HORN: 1 blast ev 30s (3s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
2090	- Inner Buoy 1 On southeast point of shoal.	43-27-59.654N 076-30-45.257W				Green can.	
2095	- *Inner Lighted Buoy 2*	43-27-58.448N 076-30-52.600W	Fl R 4s		4	Red.	Replaced by nun from Nov. 14 to May 7.
2097	- Inner Buoy 4	43-27-53.935N 076-30-50.118W				Red nun.	
2100	- *Canal Channel Lighted Buoy 6*	43-27-35.490N 076-30-39.612W	Fl R 6s		4	Red	Maintained from May. 14 to Nov. 1.
2103	*Kokosing North Mooring*	43-28-07.600N 076-31-01.200W	Q W				Private aid.
2103.1	*Kokosing South Mooring*	43-28-12.000N 076-30-59.800W	Q W				Private aid.
2105	- WEST CHANNEL LIGHT 2	43-27-58.303N 076-31-12.361W	Fl R 4s	36 11	4	TR on pile.	
2110	- West Channel Buoy 3	43-27-53.246N 076-31-13.493W				Green can.	Maintained from May 14 to Nov 1.
2115	- West Channel Buoy 5	43-27-47.646N 076-31-27.894W				Green can.	Maintained from May 14 to Nov 1.
2120	- West Channel Buoy 7	43-27-41.945N 076-31-41.895W				Green can.	Maintained from May 14 to Nov 1.
	SOUTH OF STONY POINT TO PORT BAY (Chart 14803)						
2130	*Ford Shoal Lighted Buoy 1*	43-26-57.258N 076-35-20.715W	Fl G 4s		4	Green.	Maintained from May 7 to to Nov. 14.
2131.1	*USGS 1*	43-25-09.000N 076-37-18.000W	Q Y				Private aid.
2131.2	*USGS 2*	43-25-34.020N 076-38-40.020W	Q Y				Private aid.
2131.3	*USGS 3*	43-27-03.000N 076-39-10.020W	Q Y				Private aid.
2131.4	*USGS 4*	43-28-18.720N 076-40-03.000W	Q Y				Private aid.
2131.5	*USGS 5*	43-32-59.220N 076-41-49.260W	Q Y				Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	SOUTH OF STONY POINT TO PORT BAY (Chart 14803)						
2135	FAIR HAVEN BREAKWATER LIGHT 2	43-21-01.200N 076-42-30.800W	Fl R 4s	28 9	7	TR on post.	
2140	FAIR HAVEN BREAKWATER LIGHT 1	43-21-01.100N 076-42-27.000W	Fl G 4s	30 9	6	SG on post.	
	PORT BAY TO LONG POND (Chart 14804)						
	Port Bay						
	Aids maintained from May 1 to Oct. 20.						
2145	- *Entrance Lighted Buoy 1*	43-18-19.500N 076-50-14.000W	Iso G 2s			Green.	Private aid.
2150	- ENTRANCE LIGHT 2	43-18-19.500N 076-50-15.200W	Q R	21 6		On red pile.	Private aid.
2155	- *Lighted Buoy 3*	43-18-17.000N 076-50-15.200W	Iso G 2s			Green.	Private aid.
2165	- *Lighted Buoy 5*	43-18-15.000N 076-50-15.000W	Iso G 2s			Green.	Private aid.
	SODUS BAY (Chart 14814)						
	Sodus Bay						
2168	*SUNY ESF Buoy*	43-16-54.600N 076-57-39.000W	Fl Y 4s				Maintained from Apr. 1 to Nov. 30. Private aid.
2170	**Sodus Outer Light**	43-16-38.674N 076-58-26.242W	Iso R 6s	51 16	10	Tower.	
2180	- EAST PIER LIGHT 1	43-16-36.926N 076-58-21.350W	Fl G 4s	18 5	6	SG on grey post.	
2182	- *Channel Lighted Buoy 4*	43-16-20.067N 076-58-25.846W	Fl R 2.5s		3	Red.	Maintained from May 14 to Nov. 1.
2185	- *Channel Lighted Buoy 5*	43-16-20.036N 076-58-21.285W	Fl G 2.5s		3	Green.	Maintained from May 14 to Nov. 1.
2190	- LIGHT 6	43-16-11.700N 076-58-25.930W	Fl R 4s	18 5	4	TR on white column.	
2200	*Newark Island Danger Lighted Buoy*	43-15-57.700N 076-57-34.900W	Q W		3	White can with orange bands and diamond worded DANGER ROCKS	Maintained from May 14 to Nov. 1.
2205	- Special Anchorage Buoy A	43-15-51.840N 076-58-32.052W				Yellow can.	Maintained from May 14 to Nov. 1.
2207	- Special Anchorage Buoy B	43-15-53.556N 076-58-46.140W				Yellow can.	Maintained from May 14 to Nov. 1.
2209	- Special Anchorage Buoy C	43-15-54.198N 076-58-48.924W				Yellow can.	Maintained from May 14 to Nov. 1.
2211	- Special Anchorage Buoy D	43-15-54.960N 076-58-59.124W				Yellow can.	Maintained from May 14 to Nov. 1.
2215	DAVENPORT MARINE DOCK LIGHT	43-13-30.000N 076-55-36.000W	F G	10 3		On pile.	Private aid.
	PORT BAY TO LONG POND (Chart 14804)						
	Pultneyville Entrance						
2220	PULTNEYVILLE YACHT CLUB LIGHT	43-17-06.000N 077-11-06.000W	Fl W 4s	35 11		On pile.	Maintained from Apr. 30 to Sep. 30. Private aid.
2225	PULTNEYVILLE OUTER RANGE FRONT LIGHT	43-16-57.000N 077-10-57.000W	F G	18 5		White diamond daymark on pile.	Maintained from Apr. 30 to Sep. 30. Private aid.
2230	PULTNEYVILLE OUTER RANGE REAR LIGHT 60 feet, 189° from front light.	43-16-56.000N 077-10-57.000W	F G	30 9		White diamond daymark on pile.	Maintained from Apr. 30 to Sep. 30. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	PORT BAY TO LONG POND (Chart 14804)						
	Pultneyville Entrance						
2235	- *Lighted Buoy 1*	43-17-05.000N 077-10-56.500W	Fl G 3s			Green.	Maintained from Apr. 30 to Sep. 30. Private aid.
2240	- *Lighted Buoy 2*	43-17-05.000N 077-10-58.000W	Fl R 3s			Red.	Maintained from Apr. 30 to Sep. 30. Private aid.
2245	- *Lighted Buoy 3*	43-17-01.000N 077-10-56.500W	Fl G 3s			Green.	Maintained from Apr. 30 to Sep. 30. Private aid.
2250	- *Lighted Buoy 4*	43-17-01.000N 077-10-58.000W	Fl R 3s			Red.	Maintained from Apr. 30 to Sep. 30. Private aid.
2255	PULTNEYVILLE INNER RANGE FRONT LIGHT	43-16-59.000N 077-11-06.000W	F R	11 3		White diamond shaped daymark with red border on post.	Maintained from Apr. 30 to Sep. 30. Private aid.
2260	PULTNEYVILLE INNER RANGE REAR LIGHT 225 feet, 259° from front light.	43-17-00.000N 077-11-12.000W	F R	20 6		White diamond shaped daymark with red border on pile.	Maintained from Apr. 30 to Sep. 30. Private aid.
2265	- *Lighted Buoy 5*	43-17-06.000N 077-11-00.000W	Fl G 3s			Green.	Maintained from Apr. 30 to Sep. 30. Private aid.
2270	- *Lighted Buoy 6*	43-17-06.000N 077-11-00.000W	Fl R 3s			Red.	Maintained from Apr. 30 to Sep. 30. Private aid.
	R. E. Ginna Nuclear Security Zone *Buoys maintained from Apr. 15 to Nov. 15.*						
2271	- No Entry Buoy A	43-16-57.000N 077-18-54.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.1	- No Entry Buoy B	43-17-07.800N 077-18-54.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.2	- No Entry Buoy C	43-17-18.000N 077-18-54.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.3	- No Entry Buoy D	43-17-18.000N 077-18-42.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.4	- No Entry Buoy E	43-17-18.000N 077-18-30.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.5	- No Entry Buoy F	43-17-18.000N 077-18-18.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.6	- No Entry Buoy G	43-17-07.800N 077-18-18.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.7	- No Entry Buoy H	43-16-57.000N 077-18-18.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	PORT BAY TO LONG POND (Chart 14804)						
	Pultneyville Entrance						
	R. E. Ginna Nuclear Security Zone *Buoys maintained from Apr. 15 to Nov. 15.*						
2271.8	- No Entry Buoy I	43-16-46.800N 077-18-18.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
	Pultneyville Entrance						
2275	WEBSTER PARK BREAKWATER LIGHT 1	43-15-45.000N 077-27-01.000W	Fl G 6s	20 6		On post on jetty.	Maintained from May 1 to Oct. 15. Private aid.
2276.1	*USGS 6*	43-24-51.600N 077-25-28.800W	Q Y				Private aid.
2276.2	*USGS 7*	43-20-05.100N 077-28-45.960W	Q Y				Private aid.
2276.3	*USGS 8*	43-18-30.180N 077-30-09.600W	Q Y				Private aid.
2277	*Canadian Weather Buoy 12 - 5 (C)*	43-30-37.000N 077-05-07.000W	F Y				Maintained from Apr 1. to Nov. 30 Private aid.
2278	*Canadian Spar Buoy 89 (C)*	43-30-36.000N 077-04-45.000W	F Y				Maintained from Apr 1. to Nov. 30 Private aid.
	Irondequoit Bay						
2280	- LIGHT 2	43-14-17.500N 077-32-01.700W	Fl R 4s	16 5	5	White cylindrical tower with red band.	
2285	- LIGHT 3	43-14-13.300N 077-32-01.400W	Fl G 2.5s	16 5	4	SG on post.	
2290	- LIGHT 4	43-14-03.000N 077-32-04.000W	Fl R 4s	16 5	4	TR on pile.	
2295	- *Lighted Buoy A*	43-14-01.000N 077-32-04.000W	Fl (2+1)R 6s				Maintained from May 21 to Nov 14.
2300	- LIGHT 5	43-13-50.000N 077-32-03.000W	Q G	16 5	4	SG on pile.	
2305	- LIGHT 6	43-13-50.000N 077-32-04.000W	Q R	16 5	4	TR on pile.	
2310	- LIGHT 7	43-13-34.000N 077-32-09.000W	Fl G 4s	16 5	4	SG on pile.	
2315	- LIGHT 8	43-13-34.000N 077-32-11.000W	Fl R 4s	16 5	3	TR on pile.	
2316	*USGS 9*	43-15-55.920N 077-32-59.580W	Q Y				Private aid.
2317	*USGS 10*	43-14-33.060N 077-33-42.060W	Q Y				Private aid.
	ROCHESTER HARBOR (Chart 14815)						
	Rochester Harbor						
2320	**- Light**	43-15-50.040N 077-35-56.322W	Fl R 4s	40 12	9	White cylindrical tower with red band.	
2330	- EAST PIER LIGHT	43-15-44.620N 077-35-54.310W	Fl G 4s	20 6	8	On post.	
2333	CHARLOTTE-GENESEE LIGHTHOUSE	43-15-09.975N 077-36-38.142W	F W				Private aid.
2335	Genesee River Turning Basin Buoy 4 Marks south side of shoal.	43-14-02.091N 077-37-04.057W				Red nun.	Maintained from May 7 to Nov 7.
2337	*Genesee River Lighted Buoy WR2*	43-14-20.265N 077-36-50.779W	Q R		3		Maintained from May 7 to Nov 7.
2340	BRADDOCK BAY CHANNEL LIGHT 1	43-18-23.000N 077-42-55.000W	Fl G 4s			SG on post.	Maintained from Apr. 15 to Sep. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	LONG POND TO THIRTYMILE POINT (Chart 14805)						
	Braddock Bay						
2343.1	- LIGHT BB 1	43-18-58.485N 077-42-38.221W	F G			Single Pile, White	Private aid.
2343.2	- LIGHT BB 2	43-18-59.778N 077-42-39.074W	F R			Single Pile, White	Private aid.
2343.3	- LIGHT BB 3	43-18-58.372N 077-42-44.402W	F G			Single Pile, White	Private aid.
2343.4	- LIGHT BB 4	43-18-57.715N 077-42-45.144W	F R			Single Pile, White	Private aid.
2343.5	- LIGHT BB 5	43-18-54.172N 077-42-50.580W	F G			Single Pile, White	Private aid.
2343.6	- LIGHT BB 6	43-18-55.630N 077-42-51.433W	F R			Single Pile, White	Private aid.
	ROCHESTER HARBOR (Chart 14815)						
	Rochester Harbor						
2345	BRADDOCK BAY CHANNEL LIGHT 2	43-18-24.000N 077-42-30.000W	Fl R 4s			TR on post.	Maintained from Apr. 15 to Sep. 15. Private aid.
	LONG POND TO THIRTYMILE POINT (Chart 14805)						
	Braddock Bay						
2350	**Braddock Point Light**	43-20-28.300N 077-45-45.500W	Iso W 6s	55 17	14	Brown circular tower. 55	
2355	*Wautoma Shoal Lighted Buoy 1*	43-21-28.691N 077-48-13.391W	Fl G 4s		4	Green.	Maintained from May 7 to Nov. 14.
2356	BROCKPORT HARBOR LIGHT	43-21-09.440N 077-53-30.030W	Q W	8 2		On post.	Maintained from Jun. 1 to Oct. 1. Private aid.
	ROCHESTER HARBOR (Chart 14815)						
	Rochester Harbor						
2357	*Canadian Weather Buoy 12 - 6 (C)*	43-34-59.000N 078-13-59.000W	F Y				Maintained from Apr 1. to Nov. 30 Private aid.
	LONG POND TO THIRTYMILE POINT (Chart 14805)						
	Oak Orchard						
	Golden State Park Entrance *Aids maintained from Apr. 15 to Nov. 15.*						
2358	*Canadian Spar Buoy 17 (C)*	43-35-10.000N 078-14-01.000W	F Y				Maintained from Apr 1. to Nov. 30 Private aid.
	Eagle Creek Marina						
2360	- ENTRANCE LIGHT 1	43-22-05.000N 078-01-52.000W	Iso G 2s	10 3		SG on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
2361	- ENTRANCE LIGHT 2	43-22-07.000N 078-01-48.000W	Iso R 2s	10 3		TR on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
2362	- ENTRANCE LIGHT 3	43-22-04.500N 078-01-45.000W	Iso G 2s	10 3		SG on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
2363	- ENTRANCE LIGHT 4	43-22-04.500N 078-01-48.000W	Iso R 2s	10 3		TR on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
	Oak Orchard						
2365	- BREAKWATER LIGHT B	43-22-28.330N 078-11-31.680W	Fl W 6s	30 9	6	NR on post.	
2370	- BREAKWATER LIGHT A	43-22-28.240N 078-11-28.480W	Q W	25 8	5	NR on post.	
2375	- BREAKWATER LIGHT C	43-22-28.430N 078-11-35.420W	Q W	25 8	5	NR on post.	
2380	- JETTY LIGHT 3	43-22-25.540N 078-11-30.330W	Fl G 4s	25 8	5	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	LONG POND TO THIRTYMILE POINT (Chart 14805)						
	Oak Orchard						
2390	- JETTY LIGHT 4	43-22-25.560N 078-11-33.310W	Fl R 4s	25 8	5	TR on post.	
2391	- HARBOR LIGHT	43-22-20.040N 078-11-29.400W	F W				Private aid.
	Golden State Park Entrance *Aids maintained from Apr. 15 to Nov. 15.*						
2393	- LIGHT 3	43-22-18.000N 078-28-40.000W	Q G	30 9		SG on pole.	Private aid.
2395	**Thirtymile Point Light**	43-22-29.500N 078-29-10.700W	Fl W 10s	60 18		Square tower on northeast corner of two-story house.	Maintained from Apr. 1 to Nov. 1. Private aid.
	THIRTYMILE POINT TO PORT DALHOUSIE (Chart 14806)						
	Wilson Harbor						
2400	OLCOTT LIGHT	43-20-26.445N 078-43-10.917W	Fl R 2.5s	29 9	6	TR on post.	
2405	- PIERHEAD LIGHT 2	43-19-10.511N 078-50-13.458W	Fl R 4s	27 8	7	TR on post.	
2410	- Buoy 4	43-19-00.149N 078-50-10.015W				Red nun.	Maintained from May 1 to Nov. 1.
2415	- Buoy 3	43-19-03.456N 078-50-08.796W				Green can.	Maintained from May 1 to Nov. 1.
2420	- Daybeacon 6	43-18-57.400N 078-50-13.210W				TR on pile.	
2425	- Daybeacon 7	43-18-55.370N 078-50-13.490W				SG on pile.	
2430	- Daybeacon 8	43-18-56.310N 078-50-16.260W				TR on pile.	
2435	- Daybeacon 9	43-18-55.240N 078-50-23.810W				SG on pile.	
2440	- Daybeacon 10	43-18-56.240N 078-50-24.240W				TR on pile.	
2445	- Daybeacon 12	43-18-51.720N 078-50-34.910W				TR on pile.	
2450	- Daybeacon 13	43-18-50.140N 078-50-35.840W				SG on pile.	
2455	- Daybeacon 15	43-18-50.350N 078-50-39.630W				SG on pile.	
2460	- Daybeacon 16	43-18-52.480N 078-50-42.010W				TR on pile.	
2465	- Daybeacon 17	43-18-49.810N 078-50-43.750W				SG on pile.	
2470	- Daybeacon 18	43-18-50.310N 078-50-47.300W				TR on pile.	
2475	- Daybeacon 20	43-18-47.440N 078-50-49.740W				TR on pile.	
2480	- Daybeacon 21	43-18-44.800N 078-50-52.780W				SG on pile.	
	LOWER NIAGARA RIVER (Chart 14816)						
2485	**Fort Niagara Light 5**	43-15-42.530N 079-03-50.040W	Oc G 4s	80 24	10	SG on tower. 80	
2490	*Niagara Bar Lighted Buoy 2*	43-19-02.394N 079-04-14.074W	Fl R 4s		4	Red.	Replaced by nun from Nov. 14 to May 7.
2495	*Fort Niagara Lighted Bell Buoy 3* Marks northwest side of shoal.	43-16-24.451N 079-04-29.988W	Fl G 4s		4	Green.	Replaced by can from Nov. 14 to May 7.
	Niagara River (Below the Falls)						
2505	NIAGARA RIVER RANGE FRONT LIGHT (C)	43-15-18.000N 079-03-42.000W	F R	34 10		White tower with red top.	Visible on range line only. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	LOWER NIAGARA RIVER (Chart 14816)						
	Niagara River (Below the Falls)						
2510	NIAGARA RIVER RANGE REAR LIGHT (C) 693 feet, 149.3º from front light.		F R	47 14		White tower with red top.	Visible on range line only. Seasonal.
2515	*Youngstown Safe Boating Zone Lighted Float A*	43-15-17.000N 079-03-19.000W	Q Y			4x8 foot yellow float displaying two 34x12 inch sign boards.	Maintained from May 1 to Nov. 1. Private aid.
2516	*Youngstown Safe Boating Zone Lighted Float B*	43-14-40.800N 079-03-17.000W	Q Y			4x8 foot yellow float displaying two 34x12 inch sign boards.	Maintained from May 1 to Nov. 1. Private aid.
2517	*Youngstown Safe Boating Zone Lighted Float C*	43-14-16.000N 079-03-18.500W	Q Y			4x8 foot yellow float displaying two 34x12 inch sign boards.	Maintained from May 1 to Nov. 1. Private aid.
2525	LEWISTON SKI JUMP LIGHT	43-10-24.000N 079-03-00.000W	Q W	8 2		On water ski jump.	Maintained from Jun. 1 to Oct. 31. Private aid.
	APPROACHES TO NIAGARA RIVER AND WELLAND CANAL (Chart 14822)						
	Port Weller						
2535	**Outer Light (C)**	43-14-42.000N 079-13-06.000W	Fl R 10s 0.3s fl. 9.7s ec.	51 16	15	Red skeleton tower.	Maintained from Apr. to Dec. Seasonal.
2545	EAST BREAKWATER EAST LIGHT (C)		Fl G 4s	34 10	9	Orange daymark on white pile.	Eastern limits; measured distance. Seasonal.
2550	ST. CATHERINE`S OUTER LIGHT (C)	43-14-42.000N 079-12-30.000W	Iso R 2s	26 8	5	White cylindrical tower with red top.	Seasonal.
2555	ENTRANCE RANGE FRONT LIGHT (C)	43-13-24.000N 079-13-00.000W	Iso Y 5s	54 16		On orange and white post.	
2560	ENTRANCE RANGE REAR LIGHT (C) 2,975 feet, 180º from front light.		F Y (R & G sectors)	105 32		Orange and white skeleton tower.	Red from 177.5° to 179.7°, yellow from 179.7° to 180.3°, green 180.3° to 182.5°. Yellow sector indicates preferred channel.
	CLAYTON TO FALSE DUCK ISLAND (Chart 14802)						
2565	**Nine Mile Point Light (C)**	44-09-06.000N 076-33-24.000W	Fl W 10s 03s fl 9.7s ec.	53 16	20	White circular tower with red top.	Seasonal. Emergency light.
2570	PIGEON ISLAND LIGHT (C)	44-04-00.000N 076-33-00.000W	Fl W 4s	65 20	8	White square skeleton tower with red top.	Seasonal.
2575	*South Charity Shoal Lighted Buoy M6 (C)* Marks southwest side of shoal.		Fl R 4s			Red.	
2580	*South Charity Shoal Lighted Buoy M7 (C)*	43-59-00.000N 076-32-30.000W	Fl G 4s			Green.	
2585	**Main Duck Island Light (C)**	43-55-54.000N 076-38-18.000W	Fl W 6s	77 23	20	White octagonal tower with red upper portion.	Seasonal. Emergency light.
2595	*The Ducks Lighted Buoy MM2 (C)*	43-54-36.000N 076-35-42.000W	Fl R 4s			Red.	
2600	*Main Duck Island Lighted Buoy M9 (C)* Marks west side of shoal.	43-50-00.000N 076-40-30.000W	Fl G 4s			Green.	
2605	*Psyche Shoal Lighted Bell Buoy M10 (C)* Marks southeast side of shoal.		Fl R 4s			Red.	
2610	*William Shoal Lighted Buoy K11 (C)* Marks southwest side of shoal.	43-55-30.000N 076-47-48.000W	Fl G 4s			Green.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ONTARIO				
	CLAYTON TO FALSE DUCK ISLAND (Chart 14802)						
2615	**False Ducks Light (C)**	43-56-54.000N 076-47-54.000W	Fl R 4s	72 22	20	Hexagonal tower with red and white bands.	Seasonal.
2620	*False Ducks Bank Lighted Buoy K12 (C)* Marks southeast side of bank.	43-56-00.000N 076-48-42.000W	Fl R 4s			Red.	Seasonal.
2625	*Traverse Shoal Lighted Buoy K14 (C)*	43-54-12.000N 076-50-48.000W	Fl R 4s			Red.	Seasonal.
2630	PRINCE EDWARD POINT LIGHT (C)	43-56-12.000N 076-51-30.000W	Iso W 2s	47 14	6	White skeleton tower.	Seasonal.
2635	**Point Petre Light (C)**	43-50-24.000N 077-09-12.000W	Fl W 10s 0.3s fl 9.7s ec.	71 22	15	Red and white banded circular tower.	Seasonal.
2645	SCOTCH BONNET ISLAND LIGHT (C)	43-54-00.000N 077-32-36.000W	Fl W 4s	75 23	6	White skeleton tower.	
2650	PROCTOR POINT LIGHT (C)	43-58-18.000N 077-44-48.000W	Fl R 4s	40 12		White circular tower with red top.	Seasonal.
	LAKE ONTARIO (Chart 14800)						
2655	*NOAA Lighted Weather Buoy 45012*	43-37-15.000N 077-24-03.000W	Fl (4)Y 20s 1s fl 1.5s ec. 1s fl 1.5s ec. 1s fl 1.5s ec. 1s fl 1.5s ec.		4	Yellow, disk-shaped hull.	Replaced by nun Nov. 1 to Apr. 1. Aid maintained by National Oceanic and Atmospheric Administration.
			LAKE ERIE				
	BUFFALO HARBOR (Chart 14833)						
	Buffalo Harbor						
2665	Buffalo Safe Water VAIS	42-50-08.639N 078-55-25.922W					AIS MMSI: 993682126
2670	BUFFALO INTAKE CRIB LIGHT	42-52-48.000N 078-54-42.000W	Fl (2)W 5s 0.5s fl 1s ec. 0.5s fl 3s ec.	60 18		Large circular building on concrete crib.	Maintained from Apr. 15 to Nov. 1. Private aid.
2675	- WEST BREAKWATER LIGHT	42-52-29.560N 078-54-20.090W	Fl W 4s	35 11	5	NG on post.	
2680	**- Light**	42-52-14.200N 078-54-09.198W	Fl G 2.5s	71 22	12	White tower. 71	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying microphone five times on VHF-FM Ch. 83A.
2690	- *North Entrance Channel Lighted Bell Buoy 1*	42-51-41.809N 078-54-29.227W	Fl G 4s		4	Green.	Maintained from Apr. 28 to Dec. 1.
2695	- *North Entrance Channel Lighted Buoy 2*	42-51-38.099N 078-54-19.070W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Dec. 1.
2700	- *North Entrance Channel Lighted Buoy 4*	42-52-09.209N 078-53-57.980W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Dec. 1.
2705	- NORTH ENTRANCE LIGHT 5	42-52-35.320N 078-53-53.620W	Fl G 2.5s	34 10	5	SG on post.	
2710	- NORTH ENTRANCE LIGHT 6	42-52-26.760N 078-53-46.030W	Fl R 2.5s	34 10	5	TR on post.	
2715	- OLD BREAKWATER NORTH END LIGHT	42-52-39.260N 078-53-57.180W	Fl W 2.5s	35 11	5	NR on post.	
2720	- NORTH ENTRANCE LIGHT 7	42-52-49.460N 078-53-45.560W	Fl G 2.5s	20 6	7	SG on post.	
	Buffalo River						
2725	BUFFALO COAST GUARD SLIP LIGHT	42-52-38.090N 078-53-28.119W	Iso R 6s	20 6	4	TR on post.	
2730	- LIGHT 2	42-52-40.488N 078-53-23.321W	Oc R 4s	25 8	7	TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	BUFFALO HARBOR (Chart 14833)						
	Buffalo River						
2735	- *Junction Lighted Buoy BR*	42-52-46.718N 078-53-31.240W	Fl (2+1)R 6s		4	Red and green bands.	Replaced by nun from Dec. 21 to Apr. 1.
2740	- LIGHT 5	42-52-44.300N 078-53-15.200W	Fl G 3s	32 10		On white pile.	Maintained from Apr. 1 to Dec. 15. Private aid.
	Black Rock Canal *Lighted buoys maintained from Apr. 14 to Dec. 21.*						
2785	- *Lighted Buoy 1*	42-53-02.558N 078-53-34.280W	Fl G 4s		3	Green.	Replaced by can from Dec. 21 to Apr. 1.
2790	STATE BREAKWATER LIGHT 2	42-53-06.000N 078-53-26.000W	Fl R 4s	28 9		TR on white skeleton tower with small white house with enclosed base.	Maintained from Apr. 1 to Dec. 15. Private aid.
2795	- *Lighted Buoy 3*	42-53-09.771N 078-53-34.539W	Fl G 2.5s		3	Green.	Replaced by can from Dec. 21 to Apr. 14.
2800	- LIGHT 4	42-53-16.491N 078-53-33.123W	Fl R 2.5s	27 8	6	TR on post.	
2805	- *Lighted Buoy 5*	42-53-21.894N 078-53-46.545W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2810	- Buoy 6	42-53-23.718N 078-53-44.230W				Red nun.	
2820	- *Lighted Buoy 8*	42-53-27.368N 078-53-51.491W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2825	- *Lighted Buoy 9*	42-53-34.228N 078-54-04.291W	Fl G 4s		3	Green.	Replaced by can from Dec. 21 to Apr. 14.
2830	- *Lighted Buoy 10*	42-53-33.686N 078-53-59.941W	Fl R 2.5s		3	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2835	- *Lighted Buoy 11*	42-53-43.288N 078-54-10.362W	Fl G 2.5s		3	Green.	Replaced by can from Dec. 21 to Apr. 14.
2840	- *Lighted Buoy 12*	42-53-43.488N 078-54-07.051W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2845	- *Lighted Buoy 13*	42-53-49.138N 078-54-11.812W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2850	- *Lighted Buoy 14*	42-53-49.138N 078-54-08.502W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2855	- LIGHT 15	42-53-58.490N 078-54-12.320W	Fl G 4s	24 7	4	SG on post.	
2860	- *Lighted Buoy 16*	42-53-57.865N 078-54-08.432W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2865	- *Lighted Buoy 17*	42-54-13.238N 078-54-09.412W	Fl G 4s		4	Green.	
2875	- *Lighted Buoy 19*	42-55-08.247N 078-54-05.752W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2880	- *Lighted Buoy 21*	42-55-25.677N 078-54-00.822W	Fl G 2.5s		4	Green.	
2885	- *Lighted Buoy 23*	42-55-39.597N 078-54-01.463W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2890	- *Lighted Buoy 24*	42-55-41.961N 078-53-57.922W	Fl R 4s		4	Red.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	BUFFALO HARBOR (Chart 14833)						
	Black Rock Canal						
	Lighted buoys maintained from Apr. 14 to Dec. 21.						
2895	- *Lighted Buoy 25*	42-55-48.177N 078-54-04.366W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2900	- *Lighted Buoy 26*	42-55-47.317N 078-54-00.463W	Fl R 2.5s		4	Red.	Maintained from Apr. 14 to Dec. 21.
	Buffalo Harbor South Entrance						
2905	- LIGHT 2	42-50-09.200N 078-52-28.800W	Fl R 6s	36 11	8	TR on post.	
2910	- LIGHT 3	42-50-07.290N 078-52-03.130W	Fl G 2.5s	20 6	6	SG on post.	
2915	BUFFALO HARBOR SOUTH SIDE LIGHT 4	42-50-01.050N 078-52-03.530W	Fl R 2.5s	40 12	5	TR on post.	
2925	LACKAWANNA EAST PIERHEAD LIGHT	42-49-52.900N 078-51-42.200W	F R	20 6		On black post.	Maintained from Apr. 1 to Dec. 31. Private aid.
2930	LACKAWANNA WEST PIERHEAD LIGHT	42-49-51.000N 078-51-45.100W	F R	20 6		On red post.	Maintained from Apr. 1 to Dec. 31. Private aid.
2935	UNION CANAL LIGHT	42-49-58.500N 078-51-37.800W	F R	20 6		On black post.	Maintained from Apr. 1 to Dec. 31. Private aid.
	Buffalo Outer Harbor						
2975	*Middle Reefs Lighted Buoy EU4 (C)*		Fl R 4s			Red.	Seasonal. No winter mark.
2975.1	Bird Island Reef EU Buoy 6 (C)					Red nun.	Maintained from May 1 to Oct. 7.
2975.2	Limekiln Reef EU Buoy 7 (C)					Green can.	Maintained from May 1 to Oct. 7.
2975.3	Bird Island Reef EU Buoy 8 (C)					Red nun.	Maintained from May 1 to Oct. 7.
	UPPER NIAGARA RIVER (Chart 14832)						
	Strawberry Island Cut						
2985	- *Lighted Buoy 1*	42-56-38.056N 078-54-40.925W	Fl G 4s		3	Green.	Replaced by can from Dec. 21 to May 7.
2990	HARBOUR PLACE MARINE NORTH LIGHT	42-56-35.000N 078-54-35.800W	F G	15 5		On post.	Maintained from Apr. 1 to Dec. 31. Private aid.
2995	HARBOUR PLACE MARINE SOUTH LIGHT	42-56-33.000N 078-54-35.800W	F R	15 5		On post.	Maintained from Apr. 1 to Dec. 31. Private aid.
3000	- UPPER RANGE FRONT LIGHT	42-57-12.313N 078-54-37.631W	F R	25 8		KRW on gray post.	Visible 4° each side of range line.
3005	- UPPER RANGE REAR LIGHT 788 feet, 001.4° from front light.	42-57-20.099N 078-54-37.366W	F R	48 15		KRW on gray post.	Visible 4° each side of range line.
3010	- *Lighted Buoy 5*	42-56-59.586N 078-54-39.915W	Q G		4	Green.	Replaced by can from Dec. 21 to May 7.
3015	- LOWER RANGE FRONT LIGHT	42-57-01.981N 078-54-33.928W	F R	27 8		KRW on gray post.	Visible 1.5° each side of range line.
3020	- LOWER RANGE REAR LIGHT 733 feet, 138.8° from front light.	42-56-56.529N 078-54-27.437W	F R	86 26		KRW on skeleton tower.	Visible 1.5° each side of range line.
3025	- *Lighted Buoy 7* Marks Strawberry Island Reef.	42-57-06.266N 078-54-42.615W	Fl G 4s		3	Green.	Replaced by can from Dec. 7 to May 7.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	UPPER NIAGARA RIVER (Chart 14832)						
	Strawberry Island Cut						
3030	- Buoy 8	42-57-13.196N 078-54-43.625W				Red nun.	
3045	- *Lighted Buoy 11*	42-57-26.306N 078-55-06.216W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 07 to May 7.
3050	- Buoy 12	42-57-28.776N 078-55-02.436W				Red nun.	
	Beaver Island State Park *Lights maintained from May 15 to Nov. 1.*						
3055	- EAST BULKHEAD LIGHT		Q Y	12 4		NY on pile.	Private aid.
3060	- EAST ENTRANCE LIGHT 2	42-57-27.700N 078-57-18.500W	Fl R 2s	12 4		TR on pile.	Private aid.
3065	- WEST ENTRANCE LIGHT 1	42-57-28.500N 078-57-20.000W	Fl G 2s	12 4		SG on pile.	Private aid.
3070	- WEST BULKHEAD LIGHT	42-57-00.300N 078-57-42.000W	Q Y	12 4		NY on pile.	Private aid.
	Strawberry Island Cut						
3075	GRAND ISLAND DIRECTION LIGHT	42-58-40.130N 078-56-50.240W	F R W G	29 9	R 7 G 7 W 7	4 NB on gray post.	Red from 311.5° to 313.0°, white from 313.0° to 314.0°, green from 314.0° to 315.5°.
3085	- Buoy 13	42-57-39.176N 078-55-24.757W				Green can.	
3090	- Buoy 14	42-57-42.606N 078-55-22.837W				Red nun.	
3091	- *Lighted Buoy 15*	42-57-53.765N 078-55-46.498W	Fl G 4s		3	Green.	Replaced by can from Dec. 07 to May 7.
3095	- Buoy 16	42-57-54.265N 078-55-38.978W				Red nun.	Maintained from May 7 to Dec. 7.
3105	*Erie County Water Authority Lighted Intake Buoy ECWA*	42-57-53.000N 078-55-53.000W	Fl Y 2.5s			Yellow.	Maintained from Apr. 1 to Jan. 1. Private aid.
3110	- Buoy 18	42-58-12.005N 078-56-03.239W				Red nun.	
3135	- *Lighted Buoy 20*	42-58-24.265N 078-56-21.450W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to May 7.
	Tonawanda Channel						
3140	- Buoy 21 Marks east side of shoal.	42-58-28.705N 078-56-34.140W				Green can.	
3145	- Buoy 22 Marks shoal.	42-58-38.555N 078-56-28.550W				Red nun.	
3150	- *Lighted Buoy 26*	42-59-06.265N 078-56-44.771W	Q R		4	Red.	Replaced by nun from Dec. 7 to May 7.
3155	- *Lighted Buoy 28*	42-59-31.004N 078-56-34.631W	Fl R 4s		3	Red.	Maintained from May 7 to Dec. 7.
3155.1	COLLINS MARINE ENTRANCE LIGHT 1	42-59-47.000N 078-56-05.500W	F G	15 5		SG on post.	Maintained from Apr. 1 to Nov. 1. Private aid.
3155.2	COLLINS MARINE ENTRANCE LIGHT 2	42-59-45.000N 078-56-09.200W	F R	9 3		TR on post.	Maintained from Apr. 1 to Nov. 1. Private aid.
3156	- *Lighted Buoy 29*	43-00-06.404N 078-55-59.140W	Fl G 4s		4	Green.	Maintained from May 7 to Dec. 7.
3157	UNITED REFINERY OBSTRUCTION LIGHT A	43-00-02.000N 078-55-46.000W	Fl W 2s	12 4			Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	UPPER NIAGARA RIVER (Chart 14832)						
	Tonawanda Channel						
3158	UNITED REFINING OBSTRUCTION MIDDLE LIGHT	43-00-02.000N 078-55-45.000W	F R	18 5			Private aid.
3159	UNITED REFINERY OBSTRUCTION LIGHT B	43-00-02.000N 078-55-46.000W	Fl W 2s	12 4			Private aid.
3160	- Buoy 31	43-01-11.955N 078-53-32.505W				Green can.	Maintained from May 7 to Dec. 7.
3165	TONAWANDA INTAKE CRIB LIGHT	43-01-00.000N 078-53-36.000W	Fl W 4s	15 5		White triangular daymark with red top on stone base.	Maintained from Apr. 15 to Nov. 1. Private aid.
3170	Tonawanda Island Buoy 1	43-01-20.618N 078-53-10.876W				Green can.	Maintained from May 7 to Dec. 7.
3180	- Buoy 33	43-01-22.345N 078-53-26.775W				Green can.	Maintained from May 7 to Dec 7.
3183	- Buoy 34	43-01-21.855N 078-53-21.715W				Red nun.	Maintained from May 7 to Dec 7.
3185	NORTH TONAWANDA INTAKE CRIB LIGHT	43-01-32.000N 078-53-28.500W	Fl G 4s	19 6		Cylindrical structure on crib.	Maintained from Apr. 15 to Nov. 1. Private aid.
3190	- Buoy 35	43-01-52.535N 078-53-27.186W				Green can.	Maintained from May 07 to Dec. 07.
3195	- Buoy 36	43-01-59.284N 078-53-21.704W				Red nun.	Maintained from May 7 to Dec 7.
3200	LOCKPORT INTAKE CRIB LIGHT	43-01-57.000N 078-53-42.000W	Fl W 4s	15 5		NW worded DANGER on cylindrical structure.	Maintained from May 15 to Nov. 1. Private aid.
3215	- Buoy 37	43-02-14.274N 078-53-36.886W				Green can.	Maintained from May 7 to Dec 7.
	Niagara River						
3235	- *Lighted Buoy 39*	43-02-41.759N 078-53-42.381W	Fl G 4s		3	Green.	Maintained from May 7 to Dec. 7.
3240	- *Lighted Buoy 41*	43-02-57.219N 078-54-06.501W	Fl G 4s		3	Green.	Maintained from May 7 to Dec. 7.
3243	- *Lighted Buoy 42*	43-03-00.200N 078-54-05.201W	Fl R 4s		3	Red.	Maintained from May 7 to Dec. 7.
3245	- *Lighted Buoy 43*	43-03-22.264N 078-55-18.392W	Fl G 4s		3	Green.	Maintained from May 7 to Dec. 7.
3250	- *Lighted Buoy 45*	43-03-50.000N 078-56-37.900W	Fl G 4s		3	Green.	Maintained from May 7 to Dec. 7.
3255	- *Lighted Buoy 47*	43-03-56.202N 078-58-46.000W	Fl G 4s		3	Green.	Maintained from May 7 to Dec. 7.
3265	LITTLE RIVER RANGE FRONT LIGHT	43-04-31.500N 078-57-10.000W	F R	29 9		On pile.	Maintained from May 1 to Nov. 1. Private aid.
3270	LITTLE RIVER RANGE REAR LIGHT 200 feet, 344° from front light.	43-04-33.300N 078-57-10.500W	F R	33 10		On pile.	Maintained from May 1 to Nov. 1. Private aid.
3275	LASALLE YACHT CLUB PIER EAST LIGHT	43-04-24.000N 078-59-18.000W	F R	6 2			Maintained from Apr. 15 to Nov. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	UPPER NIAGARA RIVER (Chart 14832)						
	Niagara River						
3280	LASALLE YACHT CLUB PIER WEST LIGHT		F R	6 2			Maintained from Apr. 15 to Nov. 15. Private aid.
3285	NIAGARA MOHAWK POWER CORPORATION LIGHT	43-04-12.000N 079-00-00.000W	Fl W 3s	14 4		Tower	Maintained from Apr. 15 to Nov. 15. Private aid.
3292	NIAGARA FALLS INTAKE CRIB LIGHT	43-04-13.968N 078-59-59.875W	Fl W 2.5s	14 4		NW on concrete crib.	Maintained from Apr. 1 to Nov. 30. Private aid.
3295	NIAGARA FALLS TRANSMISSION LINE LIGHT B	43-04-12.000N 079-00-12.000W	Fl W 3s	20 6		Gray cylindrical standard on concrete base.	Maintained from Apr. 15 to Nov. 15. Private aid.
3300	NIAGARA FALLS TRANSMISSION LINE LIGHT C	43-03-54.000N 079-00-06.000W	Fl W 3s	20 6		Cylindrical standard.	Maintained from Apr. 15 to Nov. 15. Private aid.
	Buckhorn Island						
3305	- DIKE LIGHT 1	43-04-10.000N 079-00-28.000W	Fl W 4s	20 6			Maintained from Apr. 1 to Dec. 1. Private aid.
3310	- DIKE LIGHT 2	43-04-03.000N 079-00-21.000W	Fl W 4s	20 6			Maintained from Apr. 1 to Dec. 1. Private aid.
3315	- DIKE LIGHT 3	43-04-02.000N 079-00-18.000W	Fl W 4s	20 6			Maintained from Apr. 1 to Dec. 1. Private aid.
3325	HOOKER ELECTROCHEMICAL CRIB LIGHT	43-03-01.000N 079-00-01.000W	Fl W 7s	9 3		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
3330	HOOKER ELECTROCHEMICAL OUTFALL CRIB LIGHT	43-03-52.300N 078-59-37.200W	Fl W 7s	9 3		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
	Chippawa Channel						
3335	BIG SIX MILE CREEK LIGHT	43-01-38.000N 079-00-43.500W	F R	12 4		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
3340	CHIPPAWA LIGHT (C)	43-03-48.000N 079-02-54.000W	Iso R 2s	16 5		On ornamental pile.	Defines danger zone above Niagara Falls. Private aid.
3343	NIAGARA SAFETY ZONE LIGHT	43-04-41.000N 079-01-35.000W	Q Y	25 8	4	Safety Zone sign on monopile.	Marks Niagara Safety Zone above Niagara Falls.
3345	Niagara Falls Safety Buoy A Marks safety zone above Niagara Falls.	43-04-06.540N 079-01-07.080W				White can with orange bands and danger symbol.	Maintained from May 1 to Oct. 28.
3350	Niagara Falls Safety Buoy B Marks safety zone above Niagara Falls.	43-04-12.180N 079-01-03.060W				White can with orange bands and danger symbol.	Maintained from May 1 to Oct. 28.
3355	Niagara Falls Safety Buoy C Marks safety zone above Niagara Falls.	43-04-17.280N 079-00-59.800W				White can with orange bands and danger symbol.	Maintained from May 1 to Oct. 28.
3356	Niagara Falls Safety Buoy D Marks safety zone above Niagara Falls.	43-04-21.960N 079-00-56.460W				White can with orange bands and danger symbol.	Maintained from May 1 to Oct. 28.
3357	Niagara Falls Safety Buoy E Marks safety zone above Niagara Falls.	43-04-27.840N 079-00-52.500W				White can with orange bands and danger symbol.	Maintained from May 1 to Oct. 28.
3358	Niagara Falls Safety Buoy F Marks safety zone above Niagara Falls.	43-04-34.680N 079-00-56.460W				White can with orange bands and danger symbol.	Maintained from May 1 to Oct. 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	UPPER NIAGARA RIVER (Chart 14832)						
	Chippawa Channel						
3359.1	Canadian Niagara Falls Safety Buoy 1 (C) Marks safety zone above Niagra Falls.	43-03-46.560N 079-02-32.760W				White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.2	Canadian Niagara Falls Safety Buoy 2 (C) Marks safety zone above Niagra Falls.	43-03-50.460N 079-02-15.480W				White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.3	Canadian Niagara Falls Safety Buoy 3 (C) Marks safety zone above Niagra Falls.	43-03-53.820N 079-02-01.980W				White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.4	Canadian Niagara Falls Safety Buoy 4 (C) Marks safety zone above Niagra Falls.	43-03-55.980N 079-01-50.820W				White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.5	Canadian Niagara Falls Safety Buoy 5 (C) Marks safety zone above Niagra Falls.	43-03-58.140N 079-01-40.200W				White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.6	Canadian Niagara Falls Safety Buoy 6 (C) Marks safety zone above Niagra Falls.	43-04-08.400N 079-01-29.100W				White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
	APPROACHES TO NIAGARA RIVER (Chart 14822)						
3360	*Seneca Shoal Lighted Buoy 2* Marks northwest side of shoal.	42-47-36.209N 078-55-58.017W	Fl R 4s		4	Red.	Maintained from May 7 to Dec. 1.
	STURGEON POINT TO TWENTY MILE CREEK (Chart 14823)						
3365	STURGEON POINT LIGHT 2	42-41-34.351N 079-02-43.715W	Fl R 2.5s	32 10	4	TR on post.	
3370	STURGEON POINT LIGHT 3	42-41-32.265N 079-02-43.739W	Fl G 4s	28 9	4	SG on post.	
	Cattaraugus Creek						
3375	- NORTH BREAKWATER LIGHT 1	42-34-18.804N 079-08-17.808W	Fl G 2.5s	31 9	5	SG on pile.	
3380	- SOUTH BREAKWATER LIGHT 2	42-34-21.642N 079-08-22.914W	Fl R 2.5s	31 9	4	TR on pile.	
	Dunkirk Harbor						
3410	**Dunkirk Light**	42-29-38.022N 079-21-14.118W	Oc W 4s	82 25	16		
3430	- LIGHT 1	42-29-35.779N 079-20-39.640W	Fl G 4s	20 6	6	SG on pile.	
3435	- PIERHEAD LIGHT 2	42-29-34.510N 079-20-43.210W	Fl R 6s	63 19	8	White cylindrical tower with red band.	
3440	- Buoy 3	42-29-32.007N 079-20-32.757W				Green can.	Maintained from May 14 to Nov. 01.
3445	- Buoy 4	42-29-29.126N 079-20-31.784W				Red nun.	Maintained from May 14 to Nov. 01.
3450	- Buoy 5	42-29-28.907N 079-20-23.257W				Green can.	Maintained from May 14 to Nov. 01.
3453	- Buoy 6	42-29-27.107N 079-20-24.557W				Red nun.	Maintained from May 14 to Nov. 01.
3455	- EAST INNER BREAKWATER WEST END LIGHT 1	42-23-00.000N 079-20-12.000W	Fl G 2.5s	35 11	4	SG on post.	
3460	- WEST INNER BREAKWATER EAST END LIGHT 2	42-29-23.000N 079-20-14.000W	Fl R 2.5s	33 10	4	TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	STURGEON POINT TO TWENTY MILE CREEK (Chart 14823)						
	Dunkirk Harbor						
3465	- WEST INNER BREAKWATER WEST END LIGHT 4	42-29-18.000N 079-20-30.000W	Fl R 4s	33 10	4	TR on post.	
	STURGEON POINT TO TWENTY MILE CREEK (Chart 14823)						
3480	BARCELONA HARBOR EAST BREAKWATER LIGHT	42-20-43.030N 079-35-44.028W	Fl G 4s	26 8	7	SG on post.	
3485	BARCELONA HARBOR WEST BREAKWATER LIGHT	42-20-42.768N 079-35-46.378W	Fl R 4s	26 8	6	TR on post.	
3490	WILLIS CRIB DOCK LIGHT	42-10-30.000N 080-00-30.000W	Fl W 4s	20 6	7	NB on gray post.	
3492	Willis Crib Isolated Danger Buoy DW	42-10-20.544N 080-00-54.094W				Black with red band.	Maintained from May 14 to Nov. 1.
	ERIE HARBOR (Chart 14835)						
	Erie Harbor						
3495	- PIERHEAD LIGHT	42-09-21.882N 080-04-16.823W	Fl R 2.5s	42 13	7	Square tower with black and white bands.	
3505	INTERNATIONAL PAPER EAST CRIB LIGHT	42-09-06.000N 080-03-30.000W	Q W	15 5		NG on gray pile.	Maintained from May 1 to Nov. 1. Private aid.
3510	International Paper Obstruction Buoy	42-08-48.200N 080-03-29.000W				White can with orange bands and diamond worded ROCKS.	Maintained from May 1 to Nov. 1. Private aid.
3515	- *Entrance Lighted Bell Buoy 1*	42-09-49.208N 080-03-10.709W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to May 1. AIS MMSI: 993672195
3520	- *Entrance Lighted Buoy 2*	42-09-53.032N 080-03-15.452W	Fl R 4s		3	Red.	Year round lighted buoy
3525	- Entrance Buoy 3	42-09-32.308N 080-03-43.711W				Green can.	
3530	- Entrance Buoy 4	42-09-36.508N 080-03-47.511W				Red nun.	
3535	- *Entrance Lighted Buoy 5*	42-09-18.608N 080-04-12.012W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 7 to May 1. AIS MMSI: 993672196
3540	- LIGHT 7	42-09-12.000N 080-04-24.000W	Fl G 4s	27 8	4	SG on post.	
3545	- ENTRANCE RANGE FRONT LIGHT	42-09-08.095N 080-04-36.870W	F G	32 10		KRW on skeleton tower.	Visible 4° each side of range line.
3550	- ENTRANCE RANGE REAR LIGHT 752 feet, 235.3° from front light.	42-09-03.859N 080-04-45.078W	F G	62 19		KRW on skeleton tower.	Visible 4° each side of range line.
3555	JOHN E. LAMPE MUNICIPAL MARINA LIGHT 1	42-08-54.000N 080-04-30.000W	F G			SG on tower.	Private aid.
3560	JOHN E. LAMPE MUNICIPAL MARINA LIGHT 2	42-08-55.000N 080-04-26.000W	F R	25 8		TR on tower.	Private aid.
3565	- LIGHT 8	42-09-06.400N 080-04-53.200W	Fl R 4s	30 9	4	TR on post.	
3570	- Junction Buoy M	42-09-05.128N 080-04-54.698W				Red with green band; nun.	
3575	- *Lighted Buoy 9*	42-08-53.108N 080-05-08.315W	Fl G 2.5s		4	Green.	Replaced by can from Nov. 1 to May 15
3580	- *Lighted Buoy 10*	42-08-55.803N 080-05-17.094W	Fl R 2.5s		4	Red.	Replaced by nun from Nov. 1 to May 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	ERIE HARBOR (Chart 14835)						
	Erie Harbor						
3585	- *Lighted Buoy 11*	42-08-47.017N 080-05-11.451W	Fl G 4s		4	Green.	Replaced by can from Nov 1 to May 15.
3590	- *Lighted Buoy 12*	42-08-47.208N 080-05-32.516W	Fl R 4s		4	Red.	Replaced by nun from Nov. 1 to May 15.
3595	- *Lighted Buoy 13*	42-08-36.051N 080-05-06.301W	Fl G 2.5s		4	Green.	Replaced by can from Nov. 1 to May 15.
3596	- *Lighted Buoy 14*	42-08-34.220N 080-05-41.782W	Fl R 4s		4	Red.	Replaced by can from Nov. 1 to May 15.
3597	- No Wake Buoy	42-08-18.300N 080-05-44.100W				White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3597.5	- No Wake Buoy	42-08-23.000N 080-05-32.000W				White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3598	- No Wake Buoy	42-08-26.200N 080-05-21.900W				White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3598.5	- No Wake Buoy	42-08-30.000N 080-05-13.300W				White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3599	- No Wake Buoy	42-08-31.700N 080-05-07.600W				White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
	Presque Isle Park *Aids maintained from May 1 to Nov. 1.*						
3615	- RANGE FRONT LIGHT	42-09-20.900N 080-06-47.000W	F R	19 6		KWB on skeleton tower.	Private aid.
3620	- REAR RANGE LIGHT 425 feet, 339.8° from front light.	42-09-25.500N 080-06-49.300W	F R	31 9		KWB on skeleton tower.	Private aid.
3625	- LIGHT 1	42-09-10.200N 080-06-44.400W	Fl G 2s	20 6		SG on post.	Private aid.
3630	- LIGHT 2	42-09-10.000N 080-06-39.100W	Fl R 2s	20 6		TR on post.	Private aid.
3635	- LIGHT 3	42-09-13.000N 080-06-45.800W	Fl G 2s	20 6		SG on post.	Private aid.
3640	- LIGHT 4	42-09-12.700N 080-06-40.800W	Fl R 2s	20 6		TR on post.	Private aid.
	Erie Harbor						
3645	- Water Pipe Intake Buoy A	42-08-07.500N 080-05-57.500W				White and orange bands; spar.	Maintained from May 1 to Nov. 1. Private aid.
3650	- Water Pipe Intake Buoy B	42-08-27.300N 080-06-47.500W				White with orange bands; spar.	Maintained from May 1 to Nov. 1. Private aid.
3655	- Water Pipe Intake Buoy C	42-08-18.900N 080-07-39.800W				White with orange bands; spar.	Maintained from May 1 to Nov. 1. Private aid.
	Erie Yacht Club						
3660	- BREAKWATER LIGHT	42-07-24.900N 080-07-49.100W	Fl W 2s	32 10		White lighthouse.	Maintained from Apr. 1 to Oct. 30. Private aid.
3665	- ENTRANCE LIGHT 1	42-07-23.000N 080-07-52.400W	F G	10 3		SG on skeleton tower.	Maintained from May 30 to Oct. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	ERIE HARBOR (Chart 14835)						
	Erie Harbor						
	Erie Yacht Club						
3670	- ENTRANCE LIGHT 2	42-07-21.900N 080-07-57.700W	F R	10 3		TR on skeleton tower.	Maintained from May 30 to Oct. 15. Private aid.
3675	Erie Harbor West Shoal Buoy A	42-07-44.300N 080-08-05.700W				White can with orange bands.	Maintained from May 15 to Sep. 15. Private aid.
3680	Erie Harbor West Shoal Buoy B	42-07-40.000N 080-08-10.900W				White can with orange bands.	Maintained from May 15 to Sep. 15. Private aid.
3685	Erie Harbor West Shoal Buoy C	42-07-39.100N 080-08-19.500W				White can with orange bands.	Maintained from May 15 to Sep. 15. Private aid.
	SIXTEEN MILE CREEK TO CONNEAUT (Chart 14824)						
3690	**Presque Isle Light**	42-09-56.800N 080-06-55.500W	Iso W 6s	73 22	15	Square tower.	
3692	*DEP PA*	42-08-39.840N 080-07-30.000W	Fl Y 4s				Private aid.
3693	*NOAA RSC A*	42-08-52.520N 080-15-59.040W	Fl Y 4s				Private aid.
3694	*Canadian Spar Buoy 5 (C)*	42-10-04.000N 080-17-01.000W	F Y				Maintained from Apr. 1 to Nov. 30 Private aid.
3695	WALNUT CREEK BREAKWATER LIGHT	42-04-38.500N 080-14-25.000W	Fl R 2.5s	14 4		On pile.	Maintained from May 1 to Nov. 1. Private aid.
3696	WALNUT CREEK CHANNEL LIGHT	42-04-37.600N 080-14-23.100W	Fl G 2s	12 4		On steel tower	Maintained from May 1 to Nov. 1. Private aid.
	Conneaut Harbor						
3700	- BREAKWATER LIGHT 1	41-58-50.022N 080-33-20.382W	Fl G 4s	46 14	6	SG on gray post.	
3705	**- West Breakwater Light**	41-58-48.075N 080-33-27.298W	Fl R 10s 0.1s W fl 4.9s ec. 0.1s R fl 4.9s ec.	80 24	12	Square pyramidal tower. 80	
3710	- EAST GAP LIGHT 1	41-58-25.547N 080-32-44.068W	Fl G 4s	25 8	4	SG on post.	
3715	- PIER LIGHT 3	41-58-21.102N 080-32-55.548W	Fl G 2.5s	20 6	4	SG on post.	
3720	- PIER LIGHT 4	41-58-21.088N 080-32-54.949W	Iso R 6s	28 9	4	TR on post.	
3723	CONNEAUT BOAT CLUB EAST LIGHT	41-58-17.820N 080-33-07.560W	F G	14 4		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
3725	CONNEAUT BOAT CLUB WEST LIGHT	41-58-17.800N 080-33-08.580W	F R	14 4		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
3731	- NORTH LIGHT 1	41-58-13.000N 080-33-20.000W	Fl G 3s	19 6		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
3732	- NORTH LIGHT 2	41-58-14.300N 080-33-19.800W	Fl R 3s	19 6		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
3733	- *Lighted Buoy 2*	41-58-14.520N 080-33-22.320W	Fl R 2.5s				Maintained from May 1 to Nov. 1. Private aid.
3734	- *Lighted Buoy 4*	41-58-09.220N 080-33-20.570W	Fl R 2.5s				Maintained from May1 to Nov. 1. Private aid.
3735	- *Lighted Buoy 6*	41-58-06.120N 080-33-20.500W	Fl R 2.5s				Maintained from May 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SIXTEEN MILE CREEK TO CONNEAUT (Chart 14824)						
	Conneaut Harbor						
3736	- *Lighted Buoy 1*	41-58-15.100N 080-33-18.560W	Fl G 2.5s				Maintained from May 1 to Nov. 1. Private aid.
3737	- *Lighted Buoy 3*	41-58-06.440N 080-33-18.450W	Fl G 2.5s				Maintained from May 1 to Nov. 1. Private aid.
3738	- *Lighted Buoy 5*	41-58-06.590N 080-33-18.280W	Fl G 2.5s				Maintained from May 1 to Nov. 1. Private aid.
	ASHTABULA TO CHAGRIN RIVER (Chart 14825)						
3740	ASHTABULA INTAKE BREAKWATER LIGHT	41-54-48.000N 080-46-12.000W	Fl G 3s	17 5		SG on skeleton tower.	Maintained from Apr. 15 to Nov 1. Private aid.
3742	ASHTABULA TOWNSHIP BREAKWALL LIGHT	41-54-30.000N 080-46-48.100W	F Y	7 2		On single pile.	Private aid.
	ASHTABULA HARBOR (Chart 14836)						
	Ashtabula Harbor						
3745	- LIGHT	41-55-06.555N 080-47-45.840W	Fl Y 6s	51 16	9		
3750	ASHTABULA EAST BREAKWATER SOUTH END LIGHT	41-54-47.640N 080-46-48.043W	Fl W 4s	25 8	8	NR on post.	
3755	- ENTRANCE LIGHT 1	41-55-11.586N 080-47-33.139W	Fl G 4s	34 10	7	White cylindrical tower with green band.	
3760	- ENTRANCE LIGHT 2	41-55-11.681N 080-47-42.117W	Fl R 2.5s	40 12	7	White cylindrical tower with red band.	
3765	- *Lighted Buoy 3*	41-55-04.709N 080-47-30.465W	Fl G 2.5s		3	Green.	Year round lighted buoy
3770	- *Junction Lighted Buoy A*	41-54-57.049N 080-47-33.825W	Fl (2+1)G 6s		3	Green with red band.	Year round lighted buoy.
3775	- INNER BREAKWATER LIGHT 7	41-54-43.236N 080-47-38.352W	Fl G 2.5s	34 10	7	SG on post	
3780	- *East Basin Lighted Buoy 1*	41-54-54.680N 080-47-18.674W	Fl G 4s		4	Green.	Replaced by can Nov 15 to Apr 15
3785	- *East Basin Lighted Buoy 2*	41-54-49.010N 080-47-24.384W	Fl R 4s		3	Red.	Year round lighted buoy.
3790	ASHTABULA RIVER LIGHT 1	41-54-38.600N 080-47-52.300W	Fl G 2.5s	31 9	4	SG on post.	
3795	*Ashtabula River Lighted Buoy 2*	41-54-39.258N 080-47-54.973W	Fl R 4s		3	Red	Maintained from Apr 15 to Nov. 15.
3800	ASHTABULA RIVER LIGHT 4	41-54-32.800N 080-47-57.100W	Fl R 6s	35 11	7	TR on grey post.	
3802	Ashtabula Buoy 5	41-53-53.700N 080-47-36.840W					Maintained from Apr. 14 to Nov. 14.
3803	Ashtabula Buoy 7	41-53-41.880N 080-47-45.600W					Maintained from Apr. 14 to Nov. 14.
	ASTABULA TO CHAGRIN RIVER (Chart 14825)						
3825	GENEVA ON THE LAKE LIGHT 1	41-51-33.468N 080-58-27.924W	Fl G 2.5s	31 9	3	White cylindrical tower with green band.	
3830	GENEVA ON THE LAKE LIGHT 2	41-51-35.000N 080-58-26.000W	Fl R 2.5s	31 9	5	TR on post.	
	ASHTABULA TO CHAGRIN RIVER (Chart 14825)						
3832	NORTH PERRY LIGHT 1	41-49-11.364N 081-06-13.825W	Fl G 4s				Private aid.
3832.1	NORTH PERRY EAST BREAKWATER LIGHT	41-49-11.610N 081-06-10.977W	Fl W 4s				Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	ASHTABULA TO CHAGRIN RIVER (Chart 14825)						
3833	NORTH PERRY LIGHT 2	41-49-10.757N 081-06-15.644W	Fl R 4s				Private aid.
3833.1	NORTH PERRY WEST BREAKWATER LIGHT	41-49-08.039N 081-06-21.085W	Fl W 4s				Private aid.
3834	PAINESVILLE FISHING PIER LIGHT	41-46-01.540N 081-14-01.440W					Private aid.
	FAIRPORT HARBOR (Chart 14837)						
	Fairport Harbor						
3835	- EAST BREAKWATER EAST END LIGHT	41-46-03.030N 081-15-21.550W	Fl R 4s	28 9	6	TR on pile.	
3840	- BREAKWATER LIGHT A	41-45-57.624N 081-16-00.198W	Fl Y 2.5s	27 8	4	NY on post.	
	ASHTABULA TO CHAGRIN RIVER (Chart 14825)						
	Fairport Harbor						
3845	- BREAKWATER LIGHT B	41-46-00.102N 081-15-43.278W	Fl Y 2.5s	27 8	4	NY on post.	
3850	*Lake County Outer PWI Crib Lighted Buoy* Marks north side of crib.	41-46-05.600N 081-15-46.200W	Fl W 3s			White with orange bands and diamond.	Maintained from Apr. 15 to Nov. 15. Private aid.
3855	LAKE COUNTY INNER CRIB LIGHT	41-45-39.200N 081-15-40.000W	Fl W 2.5s	15 5		NW on post.	Maintained from Apr. 15 to Nov. 15. Private aid.
3860	- EAST BREAKWATER LIGHT	41-46-04.500N 081-16-43.800W	Fl G 4s	37 11	6	SG on post.	
3865	- WEST BREAKWATER EXTENSION LIGHT	41-46-10.000N 081-16-50.000W	Fl R 2.5s	46 14	7	TR on post.	
3870	**- West Breakwater Light**	41-46-04.300N 081-16-52.200W	Iso W 6s	56 17	13	Tower. 56	Fog Signal operates by keying microphone five times on VHF FM Channel 83A. HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si).
3880	- WEST PIER LIGHT	41-45-42.000N 081-16-48.000W	F R	38 12	7	White cylindrical tower with red band.	
3885	- EAST PIER LIGHT	41-45-41.360N 081-16-47.850W	Iso G 6s	26 8	6	SG on post.	
3890	- PORT AUTHORITY BOAT RAMP LIGHT	41-45-34.200N 081-16-41.800W	Q R	13 4		On post.	Maintained from May 1 to Oct 31. Private aid.
3891	- PORT AUTHORITY BREAKWATER LIGHT	41-45-36.000N 081-16-40.000W	Fl W 4s	9 3		On post.	Private aid.
3895	MORTON SALT COMPANY BOATLOADING NORTH AND SOUTH LIGHTS (2)	41-45-15.300N 081-16-49.800W	F R	13 4			Maintained from May 1 to Nov. 1. Private aid.
3900	MORTON SALT COMPANY DOLPHIN LIGHT	41-45-12.600N 081-16-49.900W	F R	9 3		On dolphin.	Maintained from May 1 to Nov. 1. Private aid.
3905	*Painesville Inner Intake Crib Lighted Buoy 1*	41-45-23.800N 081-17-52.500W	Q G			Green.	Maintained from Apr. 15 to Nov. 15. Private aid.
	Mentor Harbor *Aids maintained from May 1 to Nov. 1.*						
3910	- LIGHT 1	41-43-30.000N 081-21-00.000W	F G	21 6		SG on white pile.	Private aid.
3915	- LIGHT 2	41-43-30.000N 081-21-00.000W	F R	21 6		TR on white pile.	Private aid.
3920	- LIGHT 3	41-43-30.000N 081-21-00.000W	Fl W 2s	33 10		White diamond daymark on white pile.	Private aid.
3925	- LIGHT 4	41-43-30.000N 081-21-00.000W	F R	10 3		On post.	Private aid.
3930	- YACHT CLUB RANGE FRONT LIGHT	41-43-30.000N 081-21-00.000W	F W	20 6		On white post.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	ASHTABULA TO CHAGRIN RIVER (Chart 14825)						
	Mentor Harbor *Aids maintained from May 1 to Nov. 1.*						
3935	- YACHT CLUB RANGE REAR LIGHT	41-43-30.000N 081-21-00.000W	F W	25 8		On white post.	Private aid.
	ASHTABULA TO CHAGRIN RIVER (Chart 14825)						
3940	CHAGRIN EAST PIER LIGHT	41-40-37.800N 081-26-13.200W	Fl G 4s	22 7		On green post.	Maintained from May 1 to Oct. 31. Private aid.
3945	CHAGRIN WEST PIER LIGHT	41-40-37.000N 081-26-15.100W	Fl R 4s	27 8		On red post.	Maintained from May 1 to Oct. 31. Private aid.
3950	CHAGRIN WEST PIER INNER LIGHT	41-40-35.200N 081-26-13.300W	F R	32 10		On red post.	Maintained from May 1 to Oct. 31. Private aid.
3955	EASTLAKE INTAKE BREAKWATER LIGHT	41-40-27.400N 081-26-49.900W	Q Y	18 5		NW on post worded DANGER.	Maintained from Apr. 15 to Nov. 1. Private aid.
	MOSS POINT TO VERMILLION (Chart 14826)						
	Wildwood Park *Lights maintained from May 1 to Oct. 15.*						
3975	- WEST DETACHED BREAKWATER LIGHT	41-35-17.000N 081-34-02.000W	Q W	16 5		NW on pile.	Private aid.
3980	- CENTER DETACHED BREAKWATER LIGHT	41-35-19.000N 081-34-00.000W	Q W	16 5		NW on pile.	Private aid.
3985	- EAST DETACHED BREAKWATER LIGHT	41-35-21.000N 081-39-59.000W	Q W	16 5		NW on pile.	Private aid.
3990	- EAST PIERHEAD LIGHT	41-35-18.000N 081-34-58.000W	Fl G 4s	16 5		SG on pile.	Private aid.
3995	- WEST PIERHEAD LIGHT	41-35-14.000N 081-33-58.000W	Fl R 4s	16 5		TR on pile.	Private aid.
3996	- INNER PIERHEAD LIGHT	41-35-15.000N 081-33-54.000W	Fl G 4s	16 5		SG on pile.	Private aid.
4000	EUCLID BEACH EAST BREAKWATER LIGHT	41-35-01.000N 081-34-07.000W	Q G	26 8		On post.	Private aid.
4005	EUCLID BEACH WEST BREAKWATER LIGHT	41-35-01.000N 081-34-15.000W	Q G	26 8		On post.	Private aid.
4015	NORTHEAST YACHT CLUB OUTER LIGHT	41-34-25.000N 081-35-03.000W	F R	14 4		On pile.	Maintained from Mar. 15 to Nov. 1. Private aid.
4020	NORTHEAST YACHT CLUB INNER LIGHT	41-34-24.000N 081-35-04.000W	F G	14 4		On pile.	Maintained from Mar. 15 to Nov. 1. Private aid.
4021	NEWPORT HARBOR ENTRANCE LIGHT 1	41-33-25.000N 081-36-30.000W	F G	20 6		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
4022	NEWPORT HARBOR ENTRANCE LIGHT 2	41-33-25.000N 081-36-33.000W	F R	20 6		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
4025	*GLERL Cleveland*	41-44-00.660N 081-41-54.240W	Fl Y 4s				Secured with two point morring system, lighted spar buoys with the same flash characteristics marking mooring locations. Private aid.
4027	*Limno Tech Cleveland A*	41-35-31.200N 081-47-31.200W					Private aid.
4027.1	*Limno Tech Cleveland B*	41-44-06.000N 081-41-52.800W					Private aid.
	MOSS POINT TO VERMILLION (Chart 14826)						
4028	*Canadian Weather Buoy 12 - 2 (C)*	41-56-14.000N 081-38-58.000W	F Y				Maintained from Apr. 1 to Nov. 30 Private aid.
4029	*Canadian Spar Buoy 68 (C)*	41-56-15.000N 081-38-42.000W	F Y				Maintained from Apr. 1 to Nov. 30 Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	MOSS POINT TO VERMILLION (Chart 14826)						
	Wildwood Park						
	Lights maintained from May 1 to Oct. 15.						
4030	CLEVELAND WATERWORKS INTAKE CRIB LIGHT	41-32-54.000N 081-45-00.000W	Q W	55 17		Square house on cylindrical crib.	Maintained from May 1 to Dec. 1. HORN: 1 blast ev 30s (3s bl). Private aid.
4035	*Cleveland Intake Lighted Buoy* Marks submerged water intake.	41-32-54.000N 081-45-48.000W	Fl W 4s			White with orange bands.	Replaced by unlighted buoy from Nov. 1 to May. 1. Private aid.
	MOSS POINT TO VERMILLION (Chart 14826)						
4037	*Cleveland Water Quality*	41-33-07.560N 081-46-02.640W	Fl Y 4s				Private aid.
	CLEVELAND HARBOR (Chart 14839)						
	Cleveland Harbor						
	Gordon Park						
4040	- DISPOSAL LIGHT A	41-32-52.812N 081-38-00.696W	Fl W 4s	40 12	7	NB on post.	
4045	- BOAT BASIN LIGHT 1	41-32-33.576N 081-38-17.514W	Fl G 2.5s	40 12	4	SG on post.	
4050	- BOAT BASIN ENTRANCE NORTH LIGHT	41-32-29.400N 081-38-08.900W	Fl R 4s	18 5		On pile.	Maintained from May 1 to Oct. 15. Private aid.
4055	- BOAT BASIN ENTRANCE SOUTH LIGHT	41-32-27.700N 081-38-09.300W	Fl G 4s	18 5		On pile.	Maintained from May 1 to Oct. 15. Private aid.
	Cleveland Harbor						
	Lighted buoys maintained from Apr. 28 to Dec. 14.						
4060	- EAST ENTRANCE LIGHT 2	41-32-34.980N 081-39-05.060W	Iso R 6s	59 18	9	White cylindrical tower with red band	
4065	*- East Basin Channel Lighted Buoy 1*	41-32-25.440N 081-39-02.631W	Fl G 4s		4	Green.	Maintained from Apr 14 to Dec 1.
4075	- EAST 55TH STREET MARINA ENTRANCE NORTH LIGHT	41-31-57.500N 081-39-14.800W	Fl G 4s	14 4		On pile.	Maintained from May 1 to Oct. 15. Private aid.
4080	- EAST 55TH STREET MARINA ENTRANCE SOUTH LIGHT	41-31-57.000N 081-39-12.200W	Fl R 4s	18 5		On pile.	Maintained from May 1 to Oct. 15. Private aid.
4085	*- East Basin Channel Lighted Buoy 3*	41-31-55.430N 081-39-55.668W	Fl G 4s		4	Green.	Maintained from Apr 14 to Dec 1.
4095	- EAST BASIN DIKE LIGHT 2	41-31-43.777N 081-39-44.504W	Fl R 4s	27 8	4	TR on skeleton tower.	
4100	Forest City Yacht Club 4	41-31-38.487N 081-39-40.278W				Red nun.	Private aid.
4104	BKL REGULATED NAVIGATION AREA LIGHT	41-31-28.000N 081-40-02.600W	Fl Y 4s	6 2		NW on pile worded DANGER LOW FLYING AIRCRAFT.	Private aid.
4105	LAKESIDE YACHT CLUB ENTRANCE NORTH LIGHT	41-31-12.400N 081-40-00.800W	F G	7 2		On post.	Maintained from Mar. 1 to Dec. 1. Private aid.
4110	LAKESIDE YACHT CLUB ENTRANCE SOUTH LIGHT	41-31-12.400N 081-40-00.800W	F R	7 2		On post.	Maintained from Mar. 1 to Dec. 1. Private aid.
4120	*- East Basin Channel Lighted Buoy 4*	41-31-36.305N 081-40-39.922W	Fl R 6s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4135	*- East Basin Channel Lighted Buoy 5*	41-30-49.192N 081-41-52.351W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 14.
4140	*- East Basin Channel Lighted Buoy 6*	41-30-53.086N 081-41-56.218W	Fl R 6s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4147	North Coast Harbor Daybeacon 1	41-30-37.500N 081-41-53.700W				SG on pilings.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	CLEVELAND HARBOR (Chart 14839)						
	Cleveland Harbor						
	Lighted buoys maintained from Apr. 28 to Dec. 14.						
4150	NORTH COAST HARBOR LIGHT 2	41-30-33.200N 081-41-49.500W	Fl R 4s	23 7		TR on post.	Maintained from Apr. 15 to Nov. 15. Private aid.
4155	*- East Basin Channel Lighted Buoy 8*	41-30-36.182N 081-42-26.023W	Fl R 4s		4	Red.	Year Round Lighted Buoy
4160	**- Main Entrance Light**	41-30-32.210N 081-43-04.350W	Fl R 6s	63 19	14	White conical tower with fog signal building attached. 50	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from Apr. 1 to Dec. 1. Operates by keying microphone five times on VHF-FM Ch. 83A.
4165	- MAIN ENTRANCE LIGHT 1	41-30-36.528N 081-42-55.716W	Iso G 6s	39 12	7	Tower.	
4170	- LIGHT 3	41-30-28.374N 081-42-47.664W	Fl G 4s	29 9	4	SG on post.	
4175	- LIGHT 4	41-30-23.100N 081-42-57.400W	Fl R 4s	29 9	6	TR on post.	
4180	- LIGHT 5	41-30-14.270N 081-42-41.690W	Fl G 2.5s	31 9	4	SG on post.	
4185	- LIGHT 6	41-30-12.816N 081-42-45.228W	Fl R 2.5s	27 8	5	TR on post.	
	Whiskey Island Marina						
4190	- ENTRANCE LIGHT 1	41-29-59.000N 081-43-02.000W	Fl G 2s	7 2		SG on post.	Private aid.
4191	- ENTRANCE LIGHT 2	41-29-57.200N 081-43-04.000W	Fl R 2s	7 2		TR on post.	Private aid.
	Cleveland Harbor West Basin Channel						
4200	*Great Lakes East Mooring*	41-30-01.660N 081-43-19.140W	F W				Maintained from Apr. 15 to Nov. 15. Private aid.
4200.1	*Great Lakes West Mooring*	41-29-57.510N 081-43-26.570W	F W				Maintained from Apr. 15 to Nov. 15. Private aid.
4215	- LIGHT 1	41-29-46.110N 081-43-45.264W	Q G	31 9	6	SG on post.	Light visible from 255° to 200°.
4220	- LIGHT 2	41-29-44.594N 081-43-46.744W	Fl R 2.5s	30 9	4	TR on post.	
4225	- JUNCTION LIGHT	41-29-42.984N 081-43-41.976W	Iso W 6s	21 6	W 3 G 3 R 3	JG on post.	White light visible from 123° to 133°. Red light visible from 114° to 122°. Green light visible from 134° to 140°.
4230	- Daybeacon 4	41-29-42.900N 081-43-45.000W				TR on triangular tower.	
4232	- LIGHT 7	41-29-47.300N 081-43-37.900W	Fl G 2.5s	31 9	4	SG on post.	Light visible from 210° to 070°.
4233	- LIGHT 8	41-29-45.312N 081-43-37.476W	Fl R 6s	31 9	4	TR on post.	Light visible from 210° to 100°.
	Cuyahoga River						
4240	CUYAHOGA RIVER ABUTMENT LIGHT	41-28-46.100N 081-40-29.800W	F R	14 4			Private aid.
	MOSS POINT TO VERMILLION (Chart 14826)						
4245	ROCKY RIVER LIGHT 1	41-29-30.864N 081-50-20.142W	Fl G 2.5s	35 11	6	White cylindrical tower with green band.	
4250	ROCKY RIVER BREAKWATER LIGHT	41-29-24.400N 081-50-10.500W	Fl Y 4s	28 9	6	NY on post.	
4255	BRADSTREET LANDING DOCK LIGHT	41-29-07.000N 081-52-03.000W	Fl G 6s	36 11		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	MOSS POINT TO VERMILLION (Chart 14826)						
4256	CASHELMARA JETTY LIGHT	41-29-00.000N 081-52-42.000W	Q Y	20 6		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
	Avon Lake *Launch Basin aids maintained from Apr. 1 to Nov. 1.*						
4270	- INTAKE BREAKWATER LIGHT	41-30-30.000N 082-03-18.000W	Fl W 2.5s	12 4		NB on pedestal.	Private aid.
4274	- LAUNCH BASIN LIGHT 1	41-30-17.000N 082-03-37.000W	Fl G 4s	25 8		SG on post.	Private aid.
4275	- LAUNCH BASIN LIGHT 2	41-30-17.000N 082-03-41.000W	Fl R 2.5s	25 8		TR on post.	Private aid.
4280	- LAUNCH BASIN BREAKWATER LIGHT	41-30-13.000N 082-03-45.000W	Q W	27 8		NW on post worded DANGER.	Private aid.
	MOSS POINT TO VERMILLION (Chart 14826)						
4300	SHEFFIELD LAKE LIGHT 1	41-29-27.944N 082-06-49.319W	Fl G 4s				Private aid.
4301	SHEFFIELD LAKE LIGHT 2	41-29-27.484N 082-06-49.042W	Fl R 4s				Private aid.
	LORAIN HARBOR (Chart 14841)						
	Lorain Harbor						
4320	**- Light**	41-28-51.620N 082-11-43.290W	Fl W 6s	60 18	12	On tower. 50	HORN: 1 blast ev 30s (3s bl-27s si). Operates by keying microphone five times on VHF-FM Ch. 83A.
4323	- DETACHED BREAKWATER MIDDLE LIGHT	41-28-49.800N 082-11-29.100W	Fl Y 4s	20 6	3	On post.	
4325	- DETACHED BREAKWATER EAST LIGHT	41-28-47.520N 082-11-17.200W	Q Y	25 8	4	NY on post.	
4330	- LIGHT 1	41-28-41.982N 082-11-16.914W	Fl G 2.5s	30 9	4	SG on post.	
4335	- LIGHT 2	41-28-39.000N 082-11-26.000W	Fl R 4s	58 18	7		
4345	- *Lighted Buoy 5*	41-28-31.075N 082-11-03.595W	Fl G 4s		4	Green.	Replaced by can from Nov. 14 to Apr. 15.
4350	- LIGHT 6	41-28-25.800N 082-11-09.700W	Fl R 6s	32 10	4	TR on post.	
4355	- LIGHT 7	41-28-24.800N 082-10-57.600W	Fl G 4s	32 10	4	SG on post.	
4360	- INNER HARBOR DETACHED BREAKWATER LIGHT	41-28-47.688N 082-11-15.685W	Fl Y 2.5s	32 10	4	NY on post.	
4365	- EAST BREAKWATER MIDDLE LIGHT	41-28-35.514N 082-10-52.203W	Fl Y 4s	25 8	8	NY on post.	
4370	- Inner Harbor Daybeacon 1	41-28-26.100N 082-10-52.500W				SG on post.	
4375	- Inner Harbor Daybeacon 2	41-28-23.300N 082-10-54.900W				TR on post.	
4380	- JUNCTION LIGHT	41-28-20.814N 082-10-57.468W	Fl (2+1)G 6s	30 9	6	JG on post.	
4385	U.S. STEEL CORPORATION MOORING CELL LIGHT	41-27-13.000N 082-08-47.000W	Q R	17 5		Sheet piling mooring cell.	Private aid.
4390	LAKEVIEW PARK WEST LIGHT	41-27-49.271N 082-11-52.975W	Fl Y 2.5s	30 9	4	NY on post.	
4395	LAKEVIEW PARK EAST LIGHT	41-27-54.800N 082-11-41.700W	Fl Y 4s	30 9	4	NY on post.	
	MOSS POINT TO VERMILLION (Chart 14826)						
	Beaver Creek *Lights maintained from May 1 to Oct. 31.*						
4410	- ENTRANCE LIGHT 1	41-26-16.000N 082-15-09.300W	F G	25 8		SG on lighthouse.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	MOSS POINT TO VERMILLION (Chart 14826)						
	Beaver Creek						
	Lights maintained from May 1 to Oct. 31.						
4415	- ENTRANCE LIGHT 2	41-26-15.100N 082-15-10.500W	F R	15 5		TR on post.	Private aid.
4420	- ENTRANCE LIGHT 4	41-26-13.200N 082-15-07.300W	Fl R 2.5s	15 5		TR on post.	Private aid.
4425	- ENTRANCE LIGHT 5	41-26-12.700N 082-15-09.800W	F G	15 5		SG on post.	Private aid.
4426	- ENTRANCE LIGHT 6	41-26-12.200N 082-15-06.900W	F R	15 5		TR on post.	Private aid.
4429	**- Water Tower Light**	41-25-17.200N 082-21-30.300W	Fl W 4s	191 58		White, single-pedestal watersphere. 150	Private aid.
	Vermilion						
4430	- DETACHED BREAKWATER LIGHT A	41-25-45.000N 082-21-45.500W	Q W	25 8	4	NB on post.	
4435	- DETACHED BREAKWATER LIGHT B	41-25-45.100N 082-21-50.100W	Fl W 6s	30 9	8	NB on post.	
4440	- BREAKWATER DETACHED LIGHT C	41-25-44.322N 082-21-55.938W	Q W	25 8	4	NB on post.	
4445	- EAST PIERHEAD LIGHT 1	41-25-42.100N 082-21-49.500W	Fl G 4s	22 7	4	SG on post.	
4450	- WEST PIERHEAD LIGHT 2	41-25-41.450N 082-21-51.420W	Fl R 4s	27 8	4	TR on post.	
4451	- MUSEUM LIGHTHOUSE	41-25-30.800N 082-22-00.500W	F W	35 11		White conical tower.	Private aid.
4455	BEACHWOOD VILLA LIGHT 1	41-23-16.300N 082-31-26.800W	F G	15 5		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
4460	BEACHWOOD VILLA LIGHT 2	41-23-17.200N 082-31-26.000W	F R	15 5		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
	HURON HARBOR (Chart 14843)						
	Huron Harbor						
4475	**- Light**	41-24-16.490N 082-32-38.160W	Iso R 6s	80 24	12	Square pyramidal tower. 80	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying microphone five times on VHF-FM Ch. 83A.
4485	- *Entrance Lighted Buoy 1*	41-24-32.053N 082-32-13.969W	Fl G 6s		4	Green.	Replaced by can from Dec. 1 to Apr. 14.
4490	- Entrance Buoy 2	41-24-34.133N 082-32-18.419W				Red nun.	
4495	- Entrance Buoy 3	41-24-14.024N 082-32-32.840W				Green can.	
4500	- LIGHT 5	41-24-01.830N 082-32-43.060W	Fl G 4s	25 8	5	SG on post.	
4505	- LIGHT 8	41-23-57.090N 082-32-56.090W	Fl R 4s	27 8	5	TR on post.	
4510	- LIGHT 7	41-23-54.510N 082-32-53.560W	Fl G 2.5s	25 8	4	SG on post.	
4515	HURON RIVER MOORING BASIN NORTH LIGHT	41-23-36.000N 082-23-13.800W	F R	15 5		On pile.	Maintained from May 1 to Oct. 1. Private aid.
4520	HURON RIVER MOORING BASIN SOUTH LIGHT	41-23-35.200N 082-33-13.700W	F G	15 5		On pile.	Maintained from May 1 to Oct. 1. Private aid.
	WEST END OF LAKE ERIE (Chart 14830)						
4525	SAWMILL CREEK ENTRANCE EAST LIGHT	41-25-00.000N 082-35-38.000W	F G	20 6		Pole on seawall.	Maintained from May 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	WEST END OF LAKE ERIE (Chart 14830)						
4530	SAWMILL CREEK ENTRANCE WEST LIGHT	41-25-03.000N 082-35-41.000W	F R	20 6		Pole on seawall.	Maintained from May 1 to Nov. 1. Private aid.
			LAKE ERIE (Chart 14820)				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
4550	*BGSU Sandusky Buoy*	41-27-46.599N 082-39-00.629W	Fl Y 4s				Maintained from May 1 to Nov.1. Private aid.
4560	**- Breakwater Light**	41-29-57.148N 082-40-28.880W	Fl W 6s	30 9	11	White cylindrical tower with green band. 30	HORN: 1 blast ev 30s (3s bl-27s si). Operates by keying microphone five times on VHF-FM Ch. 83A.
			LAKE ERIE				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
	Moseley Channel						
4570	- RANGE FRONT LIGHT	41-29-11.121N 082-42-12.521W	Q G	33 10		KRW on white cylindrical tower.	Higher intensity on range line.
4575	- RANGE REAR LIGHT 2,606 feet, 237.0° from front light.	41-28-57.114N 082-42-41.254W	Iso G 6s	77 23		KRW on white cylindrical tower.	Higher intensity on range line.
4580	- *Lighted Bell Buoy 1*	41-30-20.276N 082-39-45.647W	Fl G 4s		4	Green.	Maintained from Apr. 14 to Dec. 1. AIS MMSI: 993672197
4585	- *Lighted Buoy 2*	41-30-23.576N 082-39-48.647W	Fl R 4s		4	Red.	Maintained from Apr. 14 to Dec. 1. AIS MMSI: 993672198
4595	- *Lighted Buoy 4*	41-30-02.372N 082-40-32.495W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4600	- *Lighted Buoy 5*	41-29-41.079N 082-41-06.152W	Fl G 4s		4	Green.	Maintained from Apr. 14 to Dec. 07.
4605	- *Lighted Buoy 6*	41-29-44.479N 082-41-08.753W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4610	- Buoy 8	41-29-31.469N 082-41-35.416W				Red nun.	
4615	- *Lighted Buoy 9*	41-29-24.403N 082-41-39.757W	Q G		4	Green.	Year round lighted buoy.
4620	- *Lighted Buoy 10*	41-29-23.386N 082-41-49.461W	Fl R 2.5s		4	Red.	Replaced by can from Dec. 7 to Apr. 14.
	Sandusky Straight Channel						
4625	- RANGE FRONT LIGHT	41-29-28.955N 082-41-45.730W	Q W	33 10		KRW on white cylindrical tower.	Higher intensity on range line.
4630	- RANGE REAR LIGHT 1,513 feet, 017.1° from front light.	41-29-43.248N 082-41-39.891W	Iso W 6s	77 23		KRW on white cylindrical tower.	Higher intensity on range line.
4635	- *Lighted Buoy 11*	41-29-14.380N 082-41-48.855W	Q G		4	Green.	Replaced by can from Dec. 7 to Apr. 14.
4640	- *Lighted Buoy 12*	41-29-10.262N 082-41-56.576W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
4645	CEDAR POINT WATER INTAKE LIGHT	41-29-00.900N 082-41-36.400W	Fl Y 4s	20 6		NY on green post.	Maintained from Apr. 1 to Dec. 1. Private aid.
4650	- *Lighted Buoy 13*	41-28-32.181N 082-42-06.257W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
	Sandusky Straight Channel						
4655	- *Lighted Buoy 14*	41-28-32.981N 082-42-11.657W	Fl R 2.5s		4	Red.	
4660	*Sandusky Exit Channel Juction Lighted Buoy E*	41-28-22.781N 082-42-15.657W	Fl (2+1)R 6s		4	Red and green bands.	Replaced by nun from Dec. 7 to Apr. 14.
4665	- Buoy 15	41-27-53.982N 082-42-21.857W				Green can.	
4670	- *Lighted Buoy 16*	41-27-52.682N 082-42-27.858W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
	Sandusky Dock Channel						
4675	- *Lighted Buoy 18*	41-27-43.083N 082-42-39.159W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
4676	DOCK OF THE BAY MARINA ENTRANCE LIGHT	41-27-37.700N 082-42-41.600W	F R	18 5		TR on white post.	Maintained from Apr. 7 to Dec. 1. Private aid.
4677	DOCK OF THE BAY MARINA EAST BREAKWATER LIGHT	41-27-38.200N 082-42-42.800W	F W	18 5		On grey post.	Maintained from Apr. 7 to Dec. 1. Private aid.
4678	DOCK OF THE BAY MARINA WEST BREAKWATER LIGHT	41-27-35.700N 082-42-49.000W	F W	18 5		On grey post.	Maintained from Apr. 7 to Dec. 1. Private aid.
4680	- *Lighted Buoy 20*	41-27-33.083N 082-43-05.960W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
4685	- LIGHT 21	41-27-25.155N 082-43-16.300W	Fl G 4s	19 6	5	SG on pile.	
4690	- *Lighted Buoy 23*	41-27-18.161N 082-43-36.327W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 14.
4695	- *Lighted Buoy 24*	41-27-20.984N 082-43-38.462W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
4705	SANDUSKY HARBOR TURNING BASIN LIGHT	41-27-23.071N 082-43-44.729W	Fl W 2.5s	20 6	5	NR on post.	
	Sandusky Bay Exit Channel						
4710	- Buoy 9	41-27-27.384N 082-43-50.663W				Green can.	
4715	- *Lighted Buoy 7*	41-27-44.034N 082-43-45.090W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 7 to Apr. 14.
4720	- Buoy 8	41-27-51.684N 082-43-47.663W				Red nun.	
4725	- RANGE FRONT LIGHT	41-28-33.610N 082-41-50.580W	Q G	33 10		KRW on white square skeleton tower.	Higher intensity on range line.
4730	- RANGE REAR LIGHT 2,600 feet, 063.7° from front light.	41-28-45.008N 082-41-19.972W	Iso G 6s	53 16		KRW on white square skeleton tower.	Visible 4° each side of range line.
4735	- RANGE REAR PASSING LIGHT	41-28-45.008N 082-41-19.968W	Fl Y 4s	23 7	4		
4740	- *Lighted Buoy 6*	41-27-56.184N 082-43-35.962W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
4745	- *Lighted Buoy 5*	41-27-53.284N 082-43-34.862W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 7 to Apr. 14.
4750	- *Lighted Buoy 4*	41-28-09.683N 082-42-59.560W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
	Sandusky Bay Exit Channel						
4755	- *Lighted Buoy 3*	41-28-06.983N 082-42-57.860W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 14.
4760	- *Lighted Buoy 2*	41-28-23.582N 082-42-22.358W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
	Cedar Point Marina						
4765	- ENTRANCE LIGHT 1	41-28-38.100N 082-41-08.900W	F G	15 5		SG on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
4770	- ENTRANCE LIGHT 2	41-28-40.700N 082-41-07.800W	F R	15 5		TR on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
4775	- BREAKWATER LIGHT	41-28-32.800N 082-40-57.900W	F W	15 5		NW on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
4780	- SOUTH BASIN LIGHT 2	41-28-22.100N 082-40-52.900W	Fl R 2.5s	22 7		TR on post.	Maintained from Apr. 1 to Nov. 15. Private aid.
4785	- SOUTH BASIN LIGHT 1	41-28-20.000N 082-40-55.000W	Fl G 2.5s	22 7		SG on post.	Maintained from Apr. 1 to Nov. 15. Private aid.
			LAKE ERIE (Chart 14820)				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
4790	SADLER SAILING BASIN ENTRANCE LIGHT 1	41-27-39.600N 082-41-51.300W	F G	10 3		On post.	Maintained from Apr. 15 to Oct. 15. Private aid.
4795	SADLER SAILING BASIN ENTRANCE LIGHT 2	41-27-40.200N 082-41-51.800W	F R	13 4		On post.	Maintained from Apr. 15 to Oct. 15. Private aid.
4800	SANDUSKY SLUDGE BASIN LIGHT	41-27-38.300N 082-41-49.000W	Q R	13 4		On white post.	Maintained from Apr. 15 to Oct. 15. Private aid.
4805	EAST COVE ENTRANCE LIGHT 1	41-27-33.300N 082-41-53.500W	F G	7 2		On spar on jetty.	Maintained from Apr. 15 to Oct. 15. Private aid.
4806	EAST COVE ENTRANCE LIGHT 2	41-27-32.500N 082-41-56.600W	F R	15 5		On pole.	Maintained from Apr. 15 to Oct. 15. Private aid.
4807	EAST COVE ENTRANCE LIGHT 3	41-27-32.000N 082-41-55.700W	F G	15 5		On pole.	Maintained from Apr. 15 to Oct. 15. Private aid.
4810	CAUSEWAY LEADING LIGHT	41-27-21.500N 082-40-24.200W	F G	5 2		On black pile.	Visible from 037.25° to 157.25°. Maintained from Apr. 15 to Oct. 15. Private aid.
			LAKE ERIE				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
	Harbor Development Channel *Aids to navigation maintained from May 1 to Nov. 1.*						
4815	*East Bay Channel Lighted Buoy 1*	41-27-42.400N 082-40-23.900W	Fl G 4s			Green.	Private aid.
4820	*East Bay Channel Lighted Buoy 2*	41-27-41.100N 082-40-24.100W	Fl R 4s			Red.	Private aid.
4825	*East Bay Channel Lighted Buoy 3*	41-27-41.800N 082-40-18.000W	Fl G 4s			Green.	Private aid.
4830	*East Bay Channel Lighted Bouy 4*	41-27-40.600N 082-40-18.900W	Fl R 4s			Red.	Private aid.
4835	*East Bay Channel Lighted Buoy 5*	41-27-41.200N 082-40-13.200W	Q G			Green.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
	Harbor Development Channel						
	Aids to navigation maintained from May 1 to Nov. 1.						
4840	*East Bay Channel Lighted Buoy 6*	41-27-39.900N 082-40-14.700W	Q R			Red.	Private aid.
4845	*East Bay Channel Lighted Buoy 7*	41-27-32.600N 082-40-03.700W	Fl G 4s			Green.	Private aid.
4850	*East Bay Channel Lighted Buoy 8*	41-27-31.500N 082-40-05.300W	Fl R 4s			Red.	Private aid.
4855	*East Bay Channel Lighted Buoy 9*	41-27-25.900N 082-39-56.000W	Fl G 4s			Green.	Private aid.
4860	*East Bay Channel Lighted Buoy 10*	41-27-25.200N 082-39-57.800W	Fl R 4s			Red.	Private aid.
4865	*East Bay Channel Lighted Buoy 11*	41-27-21.500N 082-39-51.000W	Fl G 4s			Green.	Private aid.
4870	*East BayChannel Lighted Buoy 12*	41-27-20.900N 082-39-52.400W	Fl R 4s			Red.	Private aid.
4875	*East Bay Channel Lighted Buoy 13*	41-27-16.400N 082-39-45.200W	Fl G 4s			Green	Private aid.
4880	*East Bay Channel Lighted Buoy 14*	41-27-16.100N 082-39-47.400W	Fl R 4s			Red.	Private aid.
4885	*East Bay Channel Lighted Buoy 15*	41-27-09.100N 082-39-39.500W	Q G			Green.	Private aid.
4890	*East Bay Channel Lighted Buoy 16*	41-27-09.000N 082-39-38.900W	Q R			Red.	Private aid.
4895	*East Bay Channel Lighted Buoy 17*	41-27-02.200N 082-39-40.800W	Fl G 4s			Green.	Private aid.
4900	*East Bay Channel Lighted Buoy 18*	41-27-02.200N 082-39-42.800W	Fl R 4s			Red.	Private aid.
4905	*East Bay Channel Lighted Buoy 19*	41-26-55.800N 082-39-44.400W	Q G			Green.	Private aid.
4910	*East Bay Channel Lighted Buoy 20*	41-26-56.400N 082-39-45.400W	Fl R 4s			Red.	Private aid.
4915	*East Bay Channel Lighted Buoy 21*	41-26-53.800N 082-39-51.500W	Fl G 4s			Green.	Private aid.
4920	*East Bay Channel Lighted Buoy 22*	41-26-54.800N 082-39-51.900W	Fl R 4s			Red.	Private aid.
4925	*East Bay Channel Lighted Buoy 23*	41-26-51.900N 082-40-01.000W	Fl G 4s			Green.	Private aid.
4930	*East Bay Channel Lighted Buoy 24*	41-26-53.000N 082-40-01.200W	Fl R 4s			Red.	Private aid.
4935	*East Bay Channel Lighted Buoy 25*	41-26-50.000N 082-40-09.900W	Fl G 4s			Green.	Private aid.
4940	*East Bay Channel Lighted Buoy 26*	41-26-51.500N 082-40-10.100W	Fl R 4s			Red.	Private aid.
	Lyman Harbor						
4945	- LIGHT	41-27-19.200N 082-41-02.400W	Fl W 4s	43 13		Steel frame lighthouse red with yellow trim and worded LYMAN in black.	Private aid.
4946	- LIGHT 1	41-27-17.670N 082-40-59.880W	Fl G 2s	10 3		SG on end of break wall.	Private aid.
4947	- LIGHT 2	41-27-19.200N 082-41-02.400W	Fl R 2s	6 2		TR on end of break wall.	Private aid.
	Harbor Development Channel						
	Aids to navigation maintained from May 1 to Nov. 1.						
4950	BATTERY PARK MARINA SOUTH ENTRANCE LIGHT	41-27-50.000N 082-42-02.400W	F G	20 6		On post.	Maintained from May 1 to Oct. 31. Private aid.
4955	BATTERY PARK MARINA NORTH ENTRANCE LIGHT	41-27-51.000N 082-42-02.500W	F R	20 6		On post.	Maintained from May 1 to Oct. 31. Private aid.
4960	SANDUSKY YACHT CLUB LIGHT 1	41-27-45.000N 082-42-22.200W	Q G	23 7		SG on post.	Maintained from Apr. 15 to Dec. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SANDUSKY HARBOR (Chart 14845)						
	Sandusky Harbor						
	Harbor Development Channel						
	Aids to navigation maintained from May 1 to Nov. 1.						
4965	SANDUSKY YACHT CLUB LIGHT 2	41-27-45.600N 082-42-21.600W	Q R	23 7		TR on post.	Maintained from Apr. 15 to Dec. 15. Private aid.
	ISLANDS IN LAKE ERIE (Chart 14844)						
	West End Sandusky Bay						
4970	DANBURY BREAKWATER LIGHT	41-30-20.000N 082-45-31.000W	Fl G 4s	23 7		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
4972	BAY WINDS ENTRANCE LIGHT 1	41-30-07.380N 082-46-21.000W	Fl G 4s				Private aid.
4972.1	BAY WINDS ENTRANCE LIGHT 2	41-30-07.800N 082-46-20.880W	Fl R 4s				Private aid.
4975	COMMODORE BAY MARINA ENTRANCE LIGHT 1	41-30-08.000N 082-46-24.000W	F G			SG on post.	Maintained from May 1 to Nov. 1. Private aid.
4980	COMMODORE BAY MARINA ENTRANCE LIGHT 2	41-30-10.000N 082-42-24.000W	F R			TR on post.	Maintained from May 1 to Nov. 1. Private aid.
4985	LOCKWOOD ENTRANCE CHANNEL JETTY LIGHT 1	41-29-17.000N 082-53-28.000W	Fl G 4s				Private aid.
4985.1	LOCKWOOD ENTRANCE CHANNEL JETTY LIGHT 2	41-29-17.000N 082-53-28.000W	Fl R 4s				Private aid.
4986	QUARRY ENTRANCE CHANNEL LIGHT 1	41-29-19.000N 082-53-43.000W	Fl G 6s				Private aid.
4986.1	QUARRY ENTRANCE CHANNEL LIGHT 2	41-29-19.000N 082-53-43.000W	Fl R 6s				Private aid.
	Sandusky Bay Channel						
4990	- TRANSMISSION LINE LIGHT A	41-29-04.500N 082-49-36.000W	Q W	15 5		NW worded DANGER on concrete pier.	Maintained from May 1 to Dec. 1. Private aid.
4995	Thomas Edison Bridge Shoal Buoy A	41-29-03.000N 082-50-02.000W				White with orange bands and diamond worded HAZARD.	Maintained from May 1 to Oct. 15. Private aid.
5000	Thomas Edison Bridge Shoal Buoy B	41-29-09.000N 082-50-03.000W				White with orange bands and diamond worded HAZARD.	Maintained from May 1 to Oct. 15. Private aid.
5005	Thomas Edison Bridge Shoal Buoy C	41-29-06.000N 082-50-02.000W				White can with orange bands and diamond worded HAZARD.	Maintained from May 1 to Oct. 15. Private aid.
5010	- TRANSMISSION LINE LIGHT B	41-28-57.000N 082-49-33.000W	Q W	15 5		NW worded DANGER on concrete pier.	Maintained from May 1 to Dec. 1. Private aid.
	SOUTH SHORE OF LAKE ERIE (Chart 14842)						
	West End Sandusky Bay						
	Sandusky Bay Channel						
5020	Willow Point Buoy A	41-26-42.000N 082-53-12.000W				White with orange bands.	Maintained from May 15 to Oct. 15. Private aid.
5025	Willow Point Buoy B	41-26-42.000N 082-53-24.000W				White with orange bands.	Maintained from May 15 to Oct. 15. Private aid.
5030	Willow Point Buoy C	41-26-30.000N 082-53-30.000W				White with orange bands.	Maintained from May 15 to Oct. 15. Private aid.
	Muddy Creek						
5085	SQUAW ISLAND LIGHT	41-27-09.500N 082-59-41.200W	Q W	25 8	3	NW "DANGER SHOALING" daymarks on structure	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SOUTH SHORE OF LAKE ERIE (Chart 14842)						
	West End Sandusky Bay						
	Sandusky River						
	Buoys maintained from May 1 to Nov. 1. Due to silting, buoys may be relocated without prior notice.						
5090	- Daybeacon Outer	41-26-58.242N 083-00-00.384W				NW on pile. "DANGER ROCKS"	
5096	- Daybeacon Middle	41-26-56.880N 083-00-03.912W				NW on pile. "DANGER ROCKS"	
5100	- Daybeacon Inner	41-26-50.592N 083-00-06.882W				NW on pile. "DANGER ROCKS"	
	South Passage to Maumee Bay						
	Bay Point						
5170	- *Shoal Lighted Buoy 2* Marks east side of shoal.	41-30-12.029N 082-41-28.254W	Fl R 4s		5	Red.	Maintained from Apr. 14 to Nov. 14.
	Bay Point State Park Hazard						
	Buoys maintained from Apr. 15 to Oct. 15. Due to shifting sandbar, buoys may be relocated without prior notice.						
5215	BAY POINT MARINA EAST LIGHT	41-30-51.200N 082-43-11.200W	Q W	10 3		On white post.	Maintained from May 15 to Nov. 15. Private aid.
5245	BAY POINT MARINA SOUTH LIGHT	41-30-34.600N 082-43-30.000W	Q W	8 2		On white post.	Maintained from May 15 to Nov. 15. Private aid.
5246	JOHNSON ISLAND LIGHT 2	41-29-27.600N 082-43-50.400W	Fl R 4s	15 5		On single pole.	Maintained from Apr. 1 to Oct. 31. Private aid.
5247	JOHNSON ISLAND LIGHT 1	41-29-24.600N 082-43-54.000W	Fl G 4s	15 5		On single pole.	Maintained from Apr. 1 to Oct. 31. Private aid.
5250	**Marblehead Light**	41-32-10.750N 082-42-42.550W	Fl G 6s	67 20	12	White structure with red trim	
5260	PLEASANT POINTE SOUTHEAST PIER LIGHT	41-32-22.300N 082-42-52.400W	F R	16 5		On post.	Maintained from Apr. 15 to Nov. 30. Private aid.
5261	PLEASANT POINTE SOUTH PIER LIGHT	41-32-22.100N 082-42-52.900W	F G	16 5		On post.	Maintained from Apr. 15 to Nov. 30. Private aid.
5265	MARBLEHEAD STONE DOCK LIGHT	41-32-42.000N 082-43-48.000W	Q W	18 5		NW on post.	Maintained from Mar. 15. to Dec. 15. Private aid.
5270	LAKESIDE ASSOCIATION DOCK LIGHT	41-32-53.000N 082-45-03.000W	F R	10 3		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
5275	LAKESIDE MARINE INC. BREAKWATER LIGHT	41-32-48.500N 082-45-17.000W	F G	20 6		On pile.	Maintained from Mar. 15 to Dec. 15. Private aid.
5280	LAKESIDE MARINE INC. PIERHEAD LIGHT	41-32-48.700N 082-45-14.000W	Q W	35 11		White structure.	Maintained from Mar. 15 to Dec. 15. Private aid.
	WEST END OF LAKE ERIE (Chart 14846)						
	Port Clinton						
	Buoys maintained from May 14 to Nov. 1.						
5282	MAZURIK FISH ACCESS LIGHT 1	41-32-36.240N 082-45-55.380W	Fl G 4s				Private aid.
5283	MAZURIK FISH ACCESS LIGHT 2	41-32-35.160N 082-45-55.440W	Fl R 4s				Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SOUTH SHORE OF LAKE ERIE (Chart 14842)						
	South Passage to Maumee Bay						
	Bay Point State Park Hazard						
	Buoys maintained from Apr. 15 to Oct. 15. Due to shifting sandbar, buoys may be relocated without prior notice.						
5285	SCHROCKS MARINA EAST BREAKWATER LIGHT	41-32-31.300N 082-46-04.800W	F W	20 6		On post.	Maintained from Apr. 20 to Oct. 20. Private aid.
5290	SCHROCKS MARINA WEST BREAKWATER LIGHT	41-32-30.900N 082-46-05.500W	F R	15 5		On post.	Maintained from Apr. 20 to Oct. 20. Private aid.
5300	LAKEVUE WEST ENTRANCE LIGHTS (3)	41-32-26.000N 082-46-22.500W	F R	4 1		On post.	Maintained from May 1 to Sep. 30. Private aid.
5305	EAST HARBOR ENTRANCE LIGHT 1	41-32-36.000N 082-47-00.000W	Fl G 4s	24 7		SG on skeleton tower.	Private aid.
5310	EAST HARBOR ENTRANCE LIGHT 2	41-32-36.000N 082-47-00.000W	Fl R 4s	24 7		TR on skeleton tower.	Private aid.
5315	CHANNEL GROVE MARINA DOCK LIGHT	41-32-11.000N 082-47-14.000W	Fl R 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
	East Harbor Smallboat Concourse						
	Buoys maintained from May 15 to Sep. 15						
5325	- Buoy 1	41-32-17.000N 082-47-12.300W				Green can.	Private aid.
5330	- Buoy 2	41-32-17.500N 082-47-14.000W				Red nun.	Private aid.
5335	- Buoy 3	41-32-14.300N 082-47-15.800W				Green can.	Private aid.
5340	- Buoy 4	41-32-14.600N 082-47-16.500W				Red nun.	Private aid.
5365	EAST HARBOR STATE PARK EAST BREAKWATER LIGHT	41-33-27.000N 082-47-59.000W	Fl W 2.5s	20 6		NW on post worded DANGER.	Private aid.
5370	EAST HARBOR STATE PARK WEST BREAKWATER LIGHT	41-33-42.000N 082-48-12.000W	Fl W 2.5s	20 6		NW on post worded DANGER.	Private aid.
5375	*Middle Harbor Shoal Lighted Buoy 1*	41-34-19.281N 082-47-39.473W	Fl G 4s		4	Green.	Maintained from Apr. 14 to Nov. 14.
	West Harbor						
	Buoys maintained from May 1 to Oct. 28.						
5380	- ENTRANCE CHANNEL LIGHT 1	41-34-08.000N 082-48-33.000W	Fl G 4s	36 11	4	SG on post.	
5385	- ENTRANCE CHANNEL LIGHT 2	41-34-09.000N 082-48-37.000W	Fl R 2.5s	31 9	4	TR on post.	
5390	- Access Channel Buoy 3	41-34-03.681N 082-48-39.675W				Green can.	
5395	- Access Channel Buoy 4	41-34-04.681N 082-48-40.675W				Red nun.	
5400	*- Access Channel Lighted Buoy 5*	41-33-59.969N 082-48-44.763W	Fl G 4s		3	Green.	
5405	*- Access Channel Lighted Buoy 6*	41-34-00.181N 082-48-46.175W	Fl R 4s		3	Red.	
5410	*- Access Channel Lighted Buoy 8*	41-33-54.981N 082-48-52.675W	Fl R 4s		3	Red.	
5415	- ACCESS CHANNEL LIGHT 7	41-33-54.500N 082-48-51.000W	Fl G 2.5s	25 8	4	SG on piles.	
5420	- ACCESS CHANNEL LIGHT 9	41-33-43.500N 082-48-53.000W	Fl G 6s	15 5	4	SG on pile.	
5425	- ACCESS CHANNEL LIGHT 10	41-33-44.000N 082-48-55.000W	Fl R 6s	15 5	4	TR on pile.	
5430	- Inner Channel Daybeacon 11	41-33-33.500N 082-49-09.500W				SG on pile.	
5435	- Inner Channel Daybeacon 12	41-33-34.200N 082-49-10.500W				TR on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	SOUTH SHORE OF LAKE ERIE (Chart 14842)						
	South Passage to Maumee Bay						
	West Harbor						
	Buoys maintained from May 1 to Oct. 28.						
5440	STATE PARK MARINA ENTRANCE LIGHT 1	41-33-31.700N 082-49-15.200W	F G	10 3		SG on pyramidal structure.	Maintained from Apr. 15 to Nov. 1. Private aid.
5445	STATE PARK MARINA ENTRANCE LIGHT 2	41-33-31.200N 082-49-16.100W	F R	10 3		TR on pyramidal structure.	Maintained from Apr. 15 to Nov. 1. Private aid.
5450	ANCHORS AWAY MARINA ENTRANCE LIGHT 1	41-33-32.000N 082-49-18.000W	F G	10 3		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
5455	ANCHORS AWAY MARINA ENTRANCE LIGHT 2	41-33-32.000N 082-49-18.000W	F R	16 5		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
5460	- JUNCTION LIGHT	41-33-32.286N 082-49-25.469W	Fl (2+1)R 6s	25 8	4	JR on pile.	
5465	- Inner Channel Daybeacon 13	41-33-28.500N 082-49-28.000W				SG on pile.	
5470	- Inner Channel Daybeacon 14	41-33-28.500N 082-49-30.500W				TR on pile.	
5475	- Inner Channel Daybeacon 15	41-33-19.000N 082-49-34.600W				SG on pile.	
5480	- Inner Channel Daybeacon 16	41-33-19.000N 082-49-37.000W				TR on pile.	
5485	- Inner Channel Daybeacon 17	41-33-10.700N 082-49-40.000W				SG on pile.	
5490	- Inner Channel Daybeacon 18	41-33-11.000N 082-49-42.500W				TR on pile.	
5492	- Inner Channel Warning Daybeacon	41-33-01.500N 082-49-53.000W				NW with orange stripes on pile.	Marks end of channel.
	Gem Beach						
5495	- SOUTH ENTRANCE LIGHT 1	41-34-10.000N 082-48-59.000W	Fl G 4s	20 6		SG on pile.	Maintained from Apr. 15 to Nov. 1. Private aid.
5500	- NORTH ENTRANCE LIGHT 2	41-34-15.000N 082-48-54.000W	Fl R 4s	28 9		TR on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
5505	- Access Channel Daybeacon 3	41-33-54.800N 082-49-20.500W				SG on pile.	
5510	- Access Channel Daybeacon 5	41-33-39.000N 082-49-24.200W				SG on pile.	
5515	- Access Channel Daybeacon 6	41-33-39.000N 082-49-27.200W				TR on pile.	
	ISLANDS IN LAKE ERIE (Chart 14844)						
5520	*Scott Point Shoal Lighted Buoy 1* Marks northeast side of shoal.	41-36-05.035N 082-48-22.554W	Fl G 4s		4	Green.	Replaced by can from Nov. 7 to May 7.
5525	*Starve Island Reef Lighted Buoy 2* Marks west side of reef.	41-36-41.500N 082-49-02.343W	Fl R 6s		4	Red.	Replaced by nun from Nov. 7 to May 7.
5530	**South Bass Island Light**	41-37-44.151N 082-50-29.554W	Fl R 6s	95 29	12	NR on skeleton tower. 75	
5535	GREEN ISLAND LIGHT	41-38-42.110N 082-52-04.240W	Fl W 2.5s	80 24	8	NR on skeleton tower.	Light obscured by woods from 238° to 273°.
	WEST END OF LAKE ERIE (Chart 14830)						
5540	*Niagara Reef Lighted Buoy 5*	41-40-12.277N 082-58-21.597W	Fl G 4s		4	Green.	
5545	Crib Reef Buoy 7	41-38-47.178N 082-59-59.700W				Green can.	Maintained from Apr. 7 to Nov. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	WEST END OF LAKE ERIE (Chart 14830)						
5550	WEST SISTER ISLAND LIGHT	41-44-13.090N 083-06-38.331W	Fl W 4s	55 17	9	Tower.	Light obscured by trees from 210° thru 269°, other scattered trees obscure light at intervals.
5552	*UT LAKE ERIE CENTER A*	41-45-00.000N 083-06-11.000W	Iso W 2s				Private aid.
5553	*Battle of Lake Erie Lighted Buoy*	41-44-50.000N 083-02-00.000W	Fl W 6s		5	Red buoy hull with a blue and white vertical tower.	Maintained from Apr. 7 to Nov. 1.
5554	*Canadian Weather Buoy 12-3 (C)*	41-48-52.000N 082-59-15.000W	F Y				Maintained from Apr. 1 to Nov. 30 Private aid.
5554.1	*Canadian Spar Buoy 20 (C)*	41-48-54.000N 082-59-23.000W	F Y				Maintained from Apr. 1 to Nov. 30 Private aid.
5555	*NOAA Lighted Weather Buoy 45005*	41-40-36.000N 082-23-54.000W	Fl (4)Y 20s			Yellow disc-shaped hull.	Maintained from May 1 to Dec. 1. Aid maintained by National Oceanic and Atmospheric Administration.
	ISLANDS IN LAKE ERIE (Chart 14844)						
5565	*Kelleys Island Shoal Lighted Buoy 1* Marks northeast side of shoal.	41-38-40.966N 082-37-56.637W	Fl G 4s		4	Green.	Replaced by can from Nov. 7 to May 7.
5570	CAMP PATOS LIGHT	41-37-01.000N 082-40-58.000W	Fl W 2s	11 3		Small lighthouse structure.	Maintained from May 30 to Sep. 1. Private aid.
5575	Kelleys Island Buoy 1	41-37-26.370N 082-40-01.746W				Green can.	
5577	*Canadian Spar Buoy 85 (C)*	41-35-50.000N 082-39-11.000W	F Y				Maintained from Apr. 1 to Nov. 30 Private aid.
5580	Kelleys Island Shoal Buoy 3	41-38-25.669N 082-39-30.843W				Green can.	
5585	KELLY ISLAND STATE PARK BREAKWATER LIGHT	41-37-00.000N 082-42-11.000W	Fl R 4s	20 6		TR on gray tower.	Private aid.
5590	KELLSTONE CRIB LIGHT	41-36-38.000N 082-43-40.000W	Q R	7 2		On pile.	Maintained from May 1 to Dec. 20. Private aid.
5595	*Rock Shoal Lighted Buoy 2*	41-36-15.579N 082-44-50.366W	Fl R 4s		4	Red.	Maintained from May 7 to Nov. 7.
5600	*Gull Island Shoal Lighted Buoy 4* Marks south side of shoal.	41-39-16.971N 082-41-19.850W	Fl R 4s		4	Red.	Maintained from May 7 to Nov. 7.
5615	*Middle Bass Island East Shoal Lighted Bell Buoy 1* Marks east side of shoal.	41-41-54.525N 082-45-53.981W	Fl G 4s		4	Green.	Replaced by can from Nov. 7 to May 7.
	North Bass Island						
5620	- Shoal Buoy 2	41-42-36.761N 082-51-27.877W				Red nun.	Maintained from May 7 to Nov. 7.
5625	- *Lighted Buoy 3*	41-43-40.133N 082-48-17.572W	Fl G 4s		4	Green.	Replaced by can from Nov. 7 to May 7.
5630	- Buoy 4	41-44-07.713N 082-48-35.072W				Red nun.	Maintained from May 7 to Nov. 7.
5635	- *Lighted Bell Buoy 6*	41-45-01.872N 082-50-05.176W	Fl R 4s		4	Red.	Maintained from May 7 to Nov. 7.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	ISLANDS IN LAKE ERIE (Chart 14844)						
5650	BALLAST ISLAND LIGHT	41-40-42.810N 082-47-02.590W	Fl W 4s	92 28	8	NR on skeleton tower.	Obscured from 014° to 070°.
5652	MIDDLE BASS ISLAND NORTH BREAKWATER LIGHT	41-40-35.490N 082-48-20.860W	Fl R 6s				Private aid.
5653	MIDDLE BASS ISLAND SOUTH BREAKWATER LIGHT	41-40-34.010N 082-48-23.510W	Fl G 6s				Private aid.
5655	*Ballast Island Channel Lighted Buoy 5*	41-40-16.301N 082-46-53.895W	Fl G 2.5s		4	Green.	Maintained from May 7 to Nov 7.
5660	*Ballast Island Channel Lighted Buoy 6*	41-40-25.476N 082-47-09.970W	Fl R 2.5s		4	Red nun.	Maintained from May 21 to Nov 1.
5665	*Ballast Island Channel Lighted Buoy 7*	41-40-21.376N 082-47-26.670W	Fl G 4s		4	Green can.	Maintained from May 21 to Nov 1.
5670	**Perry Memorial Monument Light**	41-39-14.630N 082-48-41.039W	Iso W 6s	341 104	9	On roof of monument. 352	
	Put-In-Bay *Buoys maintained from May 21 to Nov. 1.*						
5673	*Stone Lab 1*	41-39-32.760N 082-49-23.159W	Fl Y 2.5s				Private aid.
5675	Put In Bay Shoal Buoy 1 Marks northwest side of shoal.	41-39-33.877N 082-48-51.274W				Green can.	Maintained year round.
5680	- *Channel Lighted Buoy 2*	41-39-29.200N 082-49-06.200W	Fl R 2.5s		3	Red.	
5685	- Channel Buoy 3	41-39-29.177N 082-48-53.674W				Green can.	
5690	- *Channel Lighted Buoy 4*	41-39-22.100N 082-49-06.200W	Fl R 4s		4	Red.	
5695	- Channel Buoy 5	41-39-24.677N 082-48-55.774W				Green can.	
5705	- Channel Buoy 6	41-39-18.405N 082-49-13.476W				Red nun.	
5710	- Channel Buoy 8	41-39-17.440N 082-49-17.716W				Red nun.	
5715	- Channel Buoy 10	41-39-18.877N 082-49-21.675W				Red nun.	
5716	- *East Lighted Float*	41-39-29.700N 082-48-52.500W	Q Y			Three 8 foot boards marked NO WAKE, on a wood raft.	Maintained from May 1 to Oct. 15. Private aid.
5717	- *West Lighted Float*	41-39-27.900N 082-49-07.000W	Q Y			Three 8 foot boards marked NO WAKE, on a wood raft.	Maintained from May 1 to Oct. 15. Private aid.
	Miller Channel *Buoys maintained from May 1 to Nov. 1.*						
5720	- Entrance Buoy 1	41-39-20.300N 082-49-25.500W				Green can.	Private aid.
5725	- Entrance Buoy 2	41-39-20.700N 082-49-24.300W				Red nun.	Private aid.
5730	- Entrance Buoy 3	41-39-18.200N 082-49-30.500W				Green can.	Private aid.
5735	- Entrance Buoy 4	41-39-21.500N 082-49-25.200W				Red nun.	Private aid.
5736	- Entrance Buoy 6	41-39-19.600N 082-49-30.700W				Red nun.	Private aid.
5745	Oak Point Reef Cut Buoy 1	41-39-24.000N 082-49-24.900W				Green can.	Maintained from Apr. 15 to Nov. 15. Private aid.
5750	Oak Point Reef Cut Buoy 2	41-39-24.000N 082-49-24.800W				Red nun.	Maintained from Apr. 15 to Nov. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	ISLANDS IN LAKE ERIE (Chart 14844)						
	Put-In-Bay						
	Put-In-Bay Anchorage						
	Buoys maintained from May 1 to Nov. 1.						
5754	- Buoy A	41-39-28.000N 082-49-10.900W				Yellow can.	Private aid.
5755	- Buoy B	41-39-27.200N 082-49-15.000W				Yellow can.	Private aid.
5760	- Buoy C	41-39-25.800N 082-49-20.000W				Yellow can.	Private aid.
5765	- Buoy D	41-39-24.600N 082-49-21.800W				Yellow can.	Private aid.
5770	- Buoy E	41-39-23.000N 082-49-23.800W				Yellow can.	Private aid.
5775	*Peach Orchard Point Lighted Buoy 2*	41-39-47.176N 082-49-17.675W	Fl R 4s		4	Red.	Maintained from May 07 to November 07.
	WEST END OF LAKE ERIE (Chart 14830)						
	Erie Proving Ground						
5780	- Buoy A	41-41-29.761N 083-07-32.570W				Yellow can.	
5785	- Buoy B	41-41-29.073N 083-03-45.410W				Yellow can.	
5790	- Buoy C	41-41-29.076N 082-59-59.701W				Yellow can.	
5795	- Buoy D	41-38-34.468N 082-57-23.304W				Yellow can.	
5800	- Buoy E	41-37-05.679N 082-56-06.691W				Yellow can.	
5805	- Buoy F	41-35-39.660N 082-54-53.828W				Yellow can.	
5810	- Buoy G	41-34-36.181N 082-56-43.692W				Yellow can.	
5815	- Buoy H	41-33-37.181N 082-58-40.696W				Yellow can.	
5820	- Buoy J	41-36-00.178N 083-03-24.707W				Yellow can.	
5825	- Buoy K	41-37-40.176N 083-04-52.711W				Yellow can.	Maintained from Apr. 7 to Nov. 1.
5830	- Buoy L	41-39-53.173N 083-06-17.716W				Yellow can.	Maintained from Apr. 7 to Nov. 1.
	ISLANDS IN LAKE ERIE (Chart 14844)						
5832	CATAWBA MILLER LIGHT A	41-35-16.290N 082-50-15.490W	Fl Y 4s				Maintained from Apr. 1 to November 30. Private aid.
5832.1	CATAWBA MILLER LIGHT B	41-35-15.790N 082-50-15.360W	Fl Y 4s				Maintained from Apr. 1 to Nov. 30. Private aid.
5832.2	CATAWBA MILLER LIGHT C	41-35-15.360N 082-50-15.230W	Fl Y 4s				Maintained from Apr. 1 to Nov. 30. Private aid.
5835	*Catawba Island Lighted Buoy 1*	41-34-36.631N 082-52-05.182W	Fl G 4s		4	Green.	Maintained from May 7 to Nov. 7.
5840	CATAWBA STATE PARK PIER LIGHT	41-34-22.000N 082-51-24.000W	Fl G 2.5s	15 5		Skeleton tower.	Maintained from Apr. 1 to Nov. 15. Private aid.
5845	CATAWBA CLIFFS HARBOR LIGHT	41-34-18.000N 082-51-18.000W	F R	12 4		White triangular structure.	Maintained from Apr. 1 to Nov. 1. Private aid.
5846	CATAWBA ISLAND MARINA SOUTH LIGHT 1	41-33-42.000N 082-51-10.000W	Q G	10 3		SG on pile.	Maintained from Apr. 15 to Nov. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	ISLANDS IN LAKE ERIE (Chart 14844)						
5847	CATAWBA ISLAND MARINA SOUTH LIGHT 2	41-33-41.000N 082-51-08.000W	Q R	10 3		TR on pile.	Maintained from Apr. 15 to Nov. 15. Private aid.
5849.3	LEMARIN ENTRANCE LIGHT 5	41-33-33.000N 082-51-10.000W	F G	20 6		SG on concrete pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
5849.4	LEMARIN ENTRANCE LIGHT 6	41-33-32.000N 082-51-10.500W	F R	20 6		TR on concrete pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
5850	COLONY CLUB MARINA NORTH LIGHT	41-34-00.000N 082-51-25.000W	F G	10 3		White triangular structure.	Maintained from Apr. 1 to Nov. 1. Private aid.
5855	COLONY CLUB MARINA SOUTH LIGHT	41-33-13.000N 082-51-25.000W	F R	10 3		White triangular structure.	Maintained from Apr. 1 to Nov. 1. Private aid.
5857	NORTHWEST CATAWABA MARINA ENTRANCE LIGHT 1	41-32-53.700N 082-51-28.500W	Fl G 3s	10 3		SG on post.	Maintained from Apr. 1 to Nov. 1. Private aid.
5858	NORTHWEST CATAWABA MARINA ENTRANCE LIGHT 2	41-32-52.500N 082-51-29.000W	Fl R 3s	10 3		TR on post.	Maintained from Apr. 1 to Nov. 1. Private aid.
	WEST END OF LAKE ERIE (Chart 14846)						
	Port Clinton						
	Buoys maintained from May 14 to Nov. 1.						
5860	- *Intake Crib Lighted Buoy*	41-31-12.500N 082-56-21.800W	Q W			White and orange bands with orange diamond worded DANGER.	Maintained from May 15 to Nov. 15. Private aid.
5861	- *Regional Water Intake Crib Lighted Buoy*	41-31-20.759N 082-56-17.925W	Fl W 4s			White with orange bands and diamond worded DANGER CRIB.	Maintained from May 15 to Oct. 15. Private aid.
5865	**- Light 2**	41-31-08.420N 082-56-10.340W	Fl (2)R 6s	30 9	10	TR on post. 30	Higher intensity beam on bearing of 208°.
5870	- EAST PIERHEAD LIGHT 1	41-31-08.249N 082-56-07.436W	Fl G 6s	25 8	6	SG on white pile.	
5875	- Channel Buoy 1	41-30-54.451N 082-57-01.051W				Green can.	
5877	- Channel Buoy 2	41-30-55.880N 082-57-02.045W				Red nun.	
5880	- Channel Buoy 3	41-30-53.427N 082-57-19.604W				Green can.	
5885	- Channel Buoy 4	41-30-56.183N 082-57-26.693W				Red nun.	
5890	- Channel Buoy 5	41-31-00.063N 082-57-38.193W				Green can.	
5895	- Channel Buoy 6	41-31-00.983N 082-57-37.593W				Red nun.	
5898	SPINNAKER BAY ENTRANCE LIGHT 1	41-31-28.800N 082-58-05.500W	F G	10 3		SG on post on breakwater.	Private aid.
5899	SPINNAKER BAY ENTRANCE LIGHT 2	41-31-30.000N 082-58-05.500W	F R	10 3		TR on post on breakwater.	Private aid.
	Lake Front Marina						
5900	- ENTRANCE EAST LIGHT 1	41-31-35.000N 082-58-13.800W	Fl G 2s	13 4		SG on pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
5905	- ENTRANCE WEST LIGHT 2	41-31-35.200N 082-58-15.500W	Fl R 2s	13 4		TR on pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
5910	- RANGE FRONT LIGHT	41-31-27.300N 082-58-19.000W	F Y	34 10		On skeleton tower.	Maintained from Apr. 15 to Nov. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	WEST END OF LAKE ERIE (Chart 14846)						
	Lake Front Marina						
5915	- RANGE REAR LIGHT 75 feet, 210° from front light.	41-31-27.000N 082-58-19.500W	F Y	49 15		On skeleton tower.	Maintained from Apr. 15 to Nov. 15. Private aid.
	WEST END OF LAKE ERIE (Chart 14846) *Crib buoys maintained from Apr. 15 to Nov. 15.*						
5950	Davis-Besse Nuclear Power Plant Obstruction Buoy	41-36-25.121N 083-03-48.616W				Orange and white regulatory buoy marked SUBMERGED CRIB.	Maintained from Apr. 1 to Nov. 15. Private aid.
5951	Davis Besse Security Zone Buoy A	41-36-22.020N 083-04-27.840W				White with orange bands.	Private aid.
5951.1	Davis Besse Security Zone Buoy B	41-36-34.680N 083-04-16.560W				White with orange bands.	Private aid.
5951.2	Davis Besse Security Zone Buoy C	41-36-47.220N 083-04-05.280W				White with orange bands.	Private aid.
5951.3	Davis Besse Security Zone Buoy D	41-37-00.000N 083-03-54.000W				White with orange bands.	Private aid.
5951.4	Davis Besse Security Zone Buoy E	41-36-48.540N 083-03-39.300W				White with orange bands.	Private aid.
5951.5	Davis Besse Security Zone Buoy F	41-36-37.560N 083-03-25.320W				White with orange bands.	Private aid.
5951.6	Davis Besse Security Zone Buoy G	41-36-27.060N 083-03-11.880W				White with orange bands.	Private aid.
5951.7	Davis Besse Security Zone Buoy H	41-36-16.200N 083-02-58.020W				White with orange bands.	Private aid.
5951.8	Davis Besse Security Zone Buoy I	41-36-05.100N 083-02-43.980W				White with orange bands.	Private aid.
5951.9	Davis Besse Security Zone Buoy J	41-35-54.000N 083-02-30.000W				White with orange bands.	Private aid.
5952	Davis Besse Security Zone Buoy K	41-35-46.980N 083-02-46.980W				White with orange bands.	Private aid.
5952.1	Davis Besse Security Zone Buoy L	41-35-39.000N 083-03-06.000W				White with orange bands.	Private aid.
5952.2	Davis Besse Security Zone Buoy M	41-35-31.980N 083-03-22.980W				White with orange bands.	Private aid.
	Wild Wings Marina						
5955	- ENTRANCE LIGHT 1	41-36-48.500N 083-06-13.000W	Fl G 2s	20 6		SG on white post.	Maintained from May 1 to Nov. 1. Private aid.
5960	- ENTRANCE LIGHT 2	41-36-49.800N 083-06-14.100W	Fl R 2s	20 6		TR on white post.	Maintained from May 1 to Nov. 1. Private aid.
	WEST END OF LAKE ERIE (Chart 14846) *Crib buoys maintained from Apr. 15 to Nov. 15.*						
5970	LONG BEACH RANGE FRONT LIGHT	41-36-53.200N 083-06-48.200W	F G	13 4		On white post.	Maintained from May 30 to Nov. 1. Private aid.
5975	LONG BEACH RANGE REAR LIGHT 147 feet, 159° from front light.	41-36-52.000N 083-06-48.000W	F G	22 7		On white post.	Maintained from May 30 to Nov. 1. Private aid.
5980	LONG BEACH ENTRANCE LIGHT	41-36-53.200N 083-06-48.800W	F R	12 4		On white post.	Maintained from May 1 to Nov. 1. Private aid.
	Turtle Creek *Aids maintained from Apr. 1 to Nov. 15.*						
5996	- BREAKWATER LIGHT 2	41-36-59.300N 083-07-44.000W	Fl R 2.5s	28 9		TR on pile.	Private aid.
	WEST END OF LAKE ERIE (Chart 14830)						
5999	*UT LAKE ERIE CENTER C*	41-38-59.000N 083-09-00.000W	Iso W 2s				Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	WEST END OF LAKE ERIE (Chart 14846) *Crib buoys maintained from Apr. 15 to Nov. 15.*						
6000	WARD CANAL EAST JETTY LIGHT 1	41-39-05.300N 083-14-11.900W	Fl G 2.5s	22 7	4	SG on post.	
6001	WARD CANAL WEST JETTY LIGHT 2	41-39-04.800N 083-14-15.600W	Fl R 4s	28 9	5	TR on post.	
	Cooley Canal						
6005	- BREAKWATER LIGHT 1	41-40-35.701N 083-16-59.203W	Fl G 4s	30 9	4	SG on tower.	
6010	- BREAKWATER LIGHT 2	41-40-37.065N 083-17-02.179W	Fl R 4s	30 9	4	TR on tower.	
	Turtle Creek *Aids maintained from Apr. 1 to Nov. 15.*						
6015	COOLEY CANAL FRONT RANGE LIGHT	41-40-30.720N 083-17-01.980W	F R			KRW on pile.	Private aid.
6016	COOLEY CANAL REAR RANGE LIGHT	41-40-29.580N 083-17-02.280W	F R			KRW in Pipe.	Private aid.
6025	TOLEDO WATER WORKS INTAKE CRIB LIGHTS	41-41-58.000N 083-15-33.000W	Q W	50 15		Circular building surmounting crib.	Four (4) lights mounted on each corner of crib. Maintained from Apr. 1 to Nov. 15. Private aid.
6025.5	*Limno Toledo*	41-42-04.600N 083-15-22.100W	Fl Y 4s				Private aid.
	WEST END OF LAKE ERIE (Chart 14830)						
6027	*UT LAKE ERIE CENTER B*	41-43-58.000N 083-17-44.000W	Iso W 2s				Private aid.
	TOLEDO HARBOR (Chart 14847)						
	Maumee Bay						
6027.1	*UT Water Quality Bouy*	41-43-28.000N 083-22-12.000W	Fl Y 4s				Maintained from Jun. 1 to Nov. 1. Private aid.
6030	**Toledo Harbor Light**	41-45-42.680N 083-19-44.470W	Iso W 6s	72 22	13		HORN: 1 blast ev 30s (3s bl). Operates from Apr. 1 toDec. 1.
6035	- STATE PARK ENTRANCE LT 2	41-41-11.400N 083-22-20.400W	Fl R 3s	25 8			Private aid.
6036	- STATE PARK ENTRANCE LT 1	41-41-12.000N 083-22-18.000W	Fl G 3s	25 8			Private aid.
6040	Maumee Safe Water VAIS	41-50-07.946N 083-10-10.530W					AIS MMSI: 993682127
6045	- *Entrance Lighted Buoy 1*	41-49-26.940N 083-11-27.380W	Q G		4	Green.	Replaced by can from Dec. 14 to Apr. 7. AIS MMSI: 993672199
	Harrison Marina						
6047	*Canadian Weather Spar Buoy 882 (C)*	41-45-46.000N 083-18-05.000W	F Y				Maintained from Jul.15 to Nov.30. Private aid.
	Maumee Bay						
6050	**- Entrance Light 2**	41-49-31.919N 083-11-36.717W	Fl R 2.5s	44 13	12	TR on tower with red band. 35	RACON: M (- -) Horn 1 blast every 15s.
6055	- Buoy 3	41-48-54.181N 083-12-41.673W				Green can.	
6060	- Buoy 4	41-48-58.060N 083-12-45.987W				Red nun.	
6065	- *Lighted Buoy 5*	41-48-29.301N 083-13-34.622W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Dec. 14.
6070	- *Lighted Buoy 6*	41-48-33.491N 083-13-37.953W	Fl R 4s		4	Red.	Maintained from Apr. 7 to Dec. 14
6075	- Buoy 7	41-48-04.830N 083-14-26.470W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	TOLEDO HARBOR (Chart 14847)						
	Maumee Bay						
6080	- Buoy 8	41-48-08.750N 083-14-30.399W				Red nun.	
6085	- LIGHT 9	41-47-39.841N 083-15-17.867W	Fl G 4s	33 10	5	White cylindrical tower with green band.	
6090	- *Lighted Buoy 10*	41-47-44.720N 083-15-21.230W	Fl R 4s		4	Red.	Maintained from Apr. 7 to Dec. 14. AIS MMSI: 993672200
6095	- Buoy 11	41-47-15.608N 083-16-10.917W				Green can.	
6100	- Buoy 12	41-47-19.561N 083-16-14.731W				Red nun.	
6105	MANHATTAN RANGE FRONT LIGHT	41-41-38.683N 083-28-11.048W	F R	24 7		KRW on post.	Lighted throughout 24 hours.
6110	MANHATTAN RANGE REAR LIGHT 3,005 feet, 237.6° from front light.	41-41-22.823N 083-28-44.528W	F R	105 32		KRW on storage bin on building.	Lighted throughout 24 hours.
6115	- *Lighted Buoy 13*	41-46-51.333N 083-17-02.292W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Dec. 14
6120	- *Lighted Buoy 14*	41-46-55.450N 083-17-06.209W	Fl R 2.5s		4	Red.	Maintained from Apr. 7 to Dec. 14
6125	- Buoy 15	41-46-34.550N 083-17-38.800W				Green can.	
6130	- Buoy 16	41-46-38.727N 083-17-41.880W				Red nun.	
6135	- *Lighted Buoy 17*	41-46-11.340N 083-18-27.540W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Dec. 14.
6140	- *Lighted Buoy 18*	41-46-15.869N 083-18-31.010W	Fl R 4s		4	Red.	Maintained from Apr. 07 to Dec. 14.
6145	- Buoy 19	41-45-55.050N 083-19-02.310W				Green can.	
6150	- Buoy 20	41-45-59.556N 083-19-04.743W				Red nun.	
6155	- *Lighted Buoy 21*	41-45-37.490N 083-19-39.070W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Dec. 14. AIS MMSI: 993672201
6160	- Buoy 23	41-45-18.782N 083-20-19.389W				Green can.	
6165	- Buoy 24	41-45-22.880N 083-20-23.018W				Red nun.	
6170	- *Lighted Buoy 25*	41-44-59.770N 083-20-59.630W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Dec. 14.
6175	- *Lighted Buoy 26*	41-45-03.759N 083-21-03.207W	Fl R 4s		4	Red.	Maintained from Apr. 7 to Dec. 14.
6180	- Buoy 27	41-44-39.625N 083-21-41.528W				Green can.	
6185	- Buoy 28	41-44-43.939N 083-21-45.281W				Red nun.	
6190	- LIGHT 29	41-44-19.900N 083-22-21.600W	Fl G 4s	43 13	5	SG on white cylindrical tower with green band.	
6195	- *Lighted Buoy 30*	41-44-24.750N 083-22-25.310W	Fl R 4s		4	Red.	Maintained from Apr. 7 to Dec. 14. AIS MMSI: 993672202

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	TOLEDO HARBOR (Chart 14847)						
	Maumee Bay						
6200	- Buoy 31	41-44-04.525N 083-22-56.009W				Green can.	
6205	- Buoy 32	41-44-08.527N 083-22-59.416W				Red nun.	
6210	- *Lighted Buoy 33*	41-43-49.190N 083-23-28.800W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Dec. 14.
6215	- *Lighted Buoy 34*	41-43-53.218N 083-23-32.259W	Fl R 4s		4	Red.	Maintained from Apr. 7 to Dec. 14.
6220	- Buoy 35	41-43-25.090N 083-24-20.170W				Green can.	
6225	- Buoy 36	41-43-28.016N 083-24-25.293W				Red nun.	
6230	- *Lighted Buoy 37*	41-42-58.659N 083-25-16.460W	Fl G 4s		4	Green.	
6235	- *Lighted Buoy 38*	41-43-02.830N 083-25-19.525W	Fl R 4s		4	Red.	
6240	- Buoy 40	41-42-42.432N 083-26-02.346W				Red nun.	
	Disposal Area *Aids maintained from Apr. 15 to Dec. 15.*						
6245	- LIGHT A	41-42-34.000N 083-26-06.000W	Q W	19 6		On dolphin.	Private aid.
6250	- LIGHT B	41-42-33.000N 083-26-09.000W	Q W	19 6		On dolphin.	Private aid.
	Maumee Bay						
6265	- *Lighted Buoy 41*	41-42-18.510N 083-26-40.019W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 7.
6270	- Buoy 42	41-42-22.627N 083-26-43.743W				Red nun.	
6275	- *Lighted Buoy 43*	41-42-02.480N 083-27-14.560W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 7.
6280	- *Lighted Buoy 45*	41-41-57.176N 083-27-26.754W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 7.
6285	- *Lighted Buoy 46*	41-42-00.580N 083-27-34.873W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 7.
6290	- *Lighted Buoy 48*	41-41-50.503N 083-27-52.179W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 7.
	Maumee River						
6295	- *Lighted Buoy 49*	41-41-38.853N 083-27-59.006W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 14.
6300	- *Lighted Buoy 50*	41-41-33.117N 083-28-13.192W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
6305	- Buoy 52	41-41-13.874N 083-28-39.058W				Red nun.	
	Harrison Marina						
6320	- Entrance Buoy 3	41-41-08.700N 083-28-48.200W				Green can.	Private aid.
6325	- Entrance Buoy 4	41-41-11.200N 083-28-51.200W				Green can.	Private aid.
6330	- Danger Buoy G	41-41-07.800N 083-28-51.900W				White with orange bands and diamond; can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	TOLEDO HARBOR (Chart 14847)						
	Maumee River						
6337	- Turning Basin Buoy 54	41-40-45.571N 083-29-11.291W				Red nun.	
6340	- Turning Basin Buoy 56	41-40-09.076N 083-29-54.759W				Red nun.	
6345	- Turning Basin Buoy 58	41-40-10.076N 083-29-59.759W				Red nun.	
6350	- Turning Basin Buoy 60	41-40-04.253N 083-30-06.860W				Red nun.	
6355	- *Lighted Buoy 62*	41-40-00.076N 083-30-08.659W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
6356.2	Glass City Marina Buoy 3	41-39-27.000N 083-30-52.000W				Green	Maintained from Apr. 15 to Oct. 15. Private aid.
6356.3	Glass City Marina Buoy 5	41-39-26.000N 083-30-51.000W				Green	Maintained from Apr. 15 to Oct. 15. Private aid.
6357	Glass City Marina Buoy A	41-39-28.000N 083-30-50.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.1	Glass City Marina Buoy B	41-39-27.000N 083-30-51.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.2	Glass City Marina Buoy C	41-39-27.000N 083-30-55.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.3	Glass City Marina Buoy D	41-39-25.000N 083-30-58.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.4	Glass City Marina Buoy E	41-39-26.000N 083-30-51.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.5	Glass City Marina Buoy F	41-39-25.000N 083-30-50.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.6	Glass City Marina Buoy G	41-39-24.000N 083-30-49.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.7	Glass City Marina Buoy H	41-39-23.000N 083-30-49.000W				Orange/White	Maintained from Apr. 15 to Oct. 15. Private aid.
6360	- *Lighted Buoy 63*	41-39-19.693N 083-31-20.265W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 14.
6361	- Buoy 64	41-38-48.161N 083-31-58.132W				Red nun.	
6362	- Buoy 65	41-38-47.277N 083-31-54.314W				Green can.	
6365	- Buoy 67	41-37-37.000N 083-32-03.000W				Green can.	
	Pier 75 Detached Breakwater *Lights maintained from Apr. 1 to Dec. 1.*						
6370	- LIGHT A	41-37-34.600N 083-32-40.900W	Q W			On southeast corner of detached breakwater.	Private aid.
6375	- LIGHT B	41-37-34.500N 083-32-43.000W	Q W			On detached breakwater.	Private aid.
6380	- LIGHT C	41-37-34.400N 083-32-44.900W	Q W			On detached breakwater.	Private aid.
6385	- LIGHT D	41-37-33.400N 083-32-46.900W	Q W			On southwest corner of detached breakwater.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	TOLEDO HARBOR (Chart 14847)						
	Maumee River						
	Pier 75 Detached Breakwater						
	Lights maintained from Apr. 1 to Dec. 1.						
6390	- LIGHT E	41-37-35.100N 083-32-41.100W	Q W			On northeast corner of detached breakwater.	Private aid.
6395	- LIGHT F	41-37-35.000N 083-32-43.100W	Q W			On detached breakwater.	Private aid.
6400	- LIGHT G	41-37-34.900N 083-32-45.000W	Q W			On detached breakwater.	Private aid.
6405	- LIGHT H	41-37-34.500N 083-32-47.000W	Q W			On northwest corner of detached breakwater.	Private aid.
	Harrison Marina						
6408.1	ROSSFORD MARINA LIGHT 1	41-37-03.690N 083-33-51.720W	F G				Maintained from Apr.1 to Nov.1. Private aid.
6408.2	ROSSFORD MARINA LIGHT 2	41-37-03.650N 083-33-51.820W	F R				Maintained from Apr.1 to Nov.1. Private aid.
6408.3	ROSSFORD MARINA LIGHT 3	41-37-03.160N 083-33-52.540W	F Y				Maintained from Apr.1 to Nov.1. Private aid.
6408.4	ROSSFORD MARINA LIGHT 4	41-37-03.270N 083-33-51.670W	F Y				Maintained from Apr.1 to Nov.1. Private aid.
6408.5	ROSSFORD MARINA LIGHT 5	41-37-02.590N 083-33-51.960W	F Y				Maintained from Apr.1 to Nov.1. Private aid.
	WEST END OF LAKE ERIE (Chart 14846)						
	Crib buoys maintained from Apr. 15 to Nov. 15.						
6410	WALBRIDGE PARK RANGE FRONT LIGHT	41-36-51.000N 083-34-50.000W	F R	10 3		Square daymark on white pile.	Maintained from May 1 to Nov. 1. Private aid.
6415	WALBRIDGE PARK REAR RANGE LIGHT 70 feet, 000.5° from front light.	41-36-51.500N 083-34-50.000W	F R	20 6		Square daymark on white pile.	Maintained from May 1 to Nov. 1. Private aid.
6420	Corbutt Island Intake Crib Buoy J	41-37-23.000N 083-33-58.500W				White can with orange bands and diamond.	Private aid.
6425	Corbutt Island Intake Crib Buoy K	41-37-23.500N 083-33-56.000W				White can with orange bands and diamond.	Private aid.
6430	Corbutt Island Intake Crib Buoy L	41-37-24.250N 083-33-54.500W				White can with orange bands and diamond.	Private aid.
6435	Brookford Road Water Intake Crib Buoy M	41-36-00.000N 083-35-24.000W				White can with orange bands and diamond.	Private aid.
6440	Brookford Road Water Intake Crib Buoy N	41-36-01.000N 083-35-22.500W				White can with orange bands and diamond.	Private aid.
6445	Brookford Road Water Intake Crib Buoy P	41-36-01.500N 083-35-23.000W				White can with orange bands and diamond.	Private aid.
	Toledo Beach Marina						
	Lights maintained from Apr. 15 to Oct. 15.						
6460	- RANGE FRONT LIGHT	41-49-44.160N 083-24-45.360W	F R	37 11		On pile.	Private aid.
6465	- RANGE REAR LIGHT 860 feet, 290° from front light.	41-49-47.100N 083-24-56.800W	F R	47 14		On pile.	Private aid.
6470	- SOUTH BREAKWATER LIGHT	41-49-40.000N 083-24-32.500W	Q G	10 3		On pile.	Private aid.
6474	- NORTH BREAKWATER LIGHT	41-49-40.500N 083-24-30.000W	Q R	10 3		On pile.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	WEST END OF LAKE ERIE (Chart 14846)						
	Crib buoys maintained from Apr. 15 to Nov. 15.						
6480	OTTER CREEK RANGE FRONT LIGHT	41-50-44.600N 083-24-02.300W	F G	12 4		SG on pile.	Maintained from May 1 to Nov. 30. Private aid.
6485	OTTER CREEK RANGE REAR LIGHT 75 feet, 284° from front light.	41-50-44.800N 083-24-03.200W	Fl G 4s	22 7		SG on pile.	Maintained from May 1 to Nov. 30. Private aid.
	Bolles Harbor						
	Unlighted buoys maintained from Apr. 21 to Nov. 14.						
6490	- *Lighted Buoy 2*	41-51-22.164N 083-22-17.754W	Fl R 4s		4	Red.	Maintained from Apr. 21 to Nov. 14.
6493	- *Lighted Buoy 1*	41-51-21.222N 083-22-18.984W	Fl G 4s		4	Green	Maintained from Apr. 21 to Nov. 14.
6500	- *Lighted Buoy 3*	41-51-42.752N 083-22-28.391W	Fl G 2.5s		4	Green.	Maintained from Apr. 21 to Nov. 14.
6505	- *Lighted Buoy 4*	41-51-43.064N 083-22-27.254W	Fl R 4s		4	Red.	Maintained from Apr. 21 to Nov. 14.
6515	- Buoy 5	41-52-03.664N 083-22-38.154W				Green can.	
6525	- ENTRANCE LIGHT 6	41-52-03.960N 083-22-36.010W	Fl (2)R 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	35 11	8	TR on post.	
6530	- Buoy 7	41-52-10.315N 083-22-41.285W				Green can.	
6535	- ENTRANCE LIGHT 9	41-52-15.700N 083-22-45.580W	Fl G 4s	25 8	5	SG on pile.	
6540	- Daybeacon 10	41-52-16.690N 083-22-42.600W				TR on pile.	
6545	- ENTRANCE LIGHT 11	41-52-19.530N 083-22-45.580W	F G	31 9	8	SG on post.	
6550	- RANGE FRONT LIGHT	41-52-26.067N 083-22-47.460W	Q W	19 6		KRW on square skeleton tower.	
6555	- RANGE REAR LIGHT 2,355 feet, 341.5° from front light.	41-52-48.128N 083-22-57.328W	Iso W 6s	75 23		KRW on square skeleton tower.	
	Monroe Harbor						
6560	- RANGE FRONT LIGHT	41-53-46.207N 083-20-58.643W	Iso W 6s (NIGHT) Iso W 6s (DAY)	51 16 48 15		KRW on square skeleton tower.	Lighted throughout 24 hours.
6565	- RANGE REAR LIGHT 5,066 feet, 291.7° from front light.	41-54-04.731N 083-22-00.864W	F W (NIGHT) F W (DAY)	89 27 91 28		Tapered skeleton tower.	Lighted throughout 24 hours.
6570	- *Lighted Buoy 1*	41-52-30.922N 083-16-51.896W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr. 14. AIS MMSI: 993672203
6575	- *Lighted Buoy 2*	41-52-33.685N 083-16-48.597W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14. AIS MMSI: 993672204
6580	- Buoy 3	41-52-51.263N 083-17-59.348W				Green can.	
6585	- Buoy 4	41-52-53.616N 083-17-56.046W				Red nun.	
6590	- *Lighted Buoy 5*	41-53-10.895N 083-19-05.270W	Fl G 4s		4	Green.	Maintained from Apr 07 to Dec07

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	WEST END OF LAKE ERIE (Chart 14846)						
	Monroe Harbor						
6595	- *Lighted Buoy 6*	41-53-14.006N 083-19-05.389W	Fl R 4s		4	Red.	Maintained from Apr 07 to Dec 07
6600	- Buoy 7	41-53-28.221N 083-20-04.303W				Green can.	
6605	- Buoy 8	41-53-31.298N 083-20-02.684W				Red nun.	
6610	- Buoy 9	41-54-01.764N 083-21-24.408W				Green can.	
	Sterling State Park *Buoys maintained from May 1 to Sep. 30. Buoys mark remnants of an old dock.*						
6615	- Hazard Buoy A	41-54-11.100N 083-19-59.000W				White with orange bands.	Private aid.
6620	- Hazard Buoy B	41-54-11.500N 083-19-53.000W				White with orange bands.	Private aid.
6625	- Hazard Buoy C	41-54-14.000N 083-19-52.800W				White with orange bands.	Private aid.
6630	- Hazard Buoy D	41-54-14.600N 083-19-58.100W				White with orange bands.	Private aid.
	Stony Creek Channel *Aids maintained from May 15 to Nov. 1.*						
6635	STONEY CREEK CHANNEL RANGE FRONT LIGHT	41-56-36.600N 083-18-12.000W	F R	14 4		On white post.	Private aid.
6640	STONEY CREEK CHANNEL RANGE REAR LIGHT 125 feet, 319° from front light.	41-56-35.900N 083-18-11.000W	F R	23 7		On red post.	Private aid.
6645	- Buoy 1	41-56-12.000N 083-17-30.000W				Green can.	Private aid.
6650	- Buoy 2	41-56-24.000N 083-17-56.000W				Red nun.	Private aid.
6655	- Buoy 3	41-56-26.000N 083-18-01.000W				Green can.	Private aid.
6660	- Buoy 4	41-56-28.000N 083-18-00.000W				Red nun.	Private aid.
6665	- Buoy 5	41-56-39.000N 083-18-04.000W				Green can.	Private aid.
6670	- Buoy 6	41-56-30.000N 083-18-03.000W				Red nun.	Private aid.
6675	- Buoy 7	41-56-32.800N 083-18-08.000W				Green can.	Private aid.
6680	- Buoy 8	41-56-33.000N 083-18-07.000W				Red nun.	Private aid.
	Sandy Creek *Buoys maintained from May 1 to Sep. 15.*						
6681	- Buoy 1	41-55-24.890N 083-19-38.630W					Private aid.
6681.5	- Buoy 2	41-55-25.900N 083-19-37.600W					Private aid.
6682	- Buoy 3	41-55-27.730N 083-19-43.690W					Private aid.
6682.5	- Buoy 4	41-55-28.740N 083-19-42.620W					Private aid.
6683	- Buoy 5	41-55-29.730N 083-19-47.360W					Private aid.
6683.5	- Buoy 6	41-55-30.630N 083-19-46.530W					Private aid.
6684	- Buoy 7	41-55-31.350N 083-19-51.150W					Private aid.
6684.5	- Buoy 8	41-55-31.130N 083-19-50.160W					Private aid.
6685	- Buoy 9	41-55-32.120N 083-19-53.850W				Green.	Private aid.
6690	- Buoy 10	41-55-32.740N 083-19-55.420W				Red.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	WEST END OF LAKE ERIE (Chart 14846)						
	Sandy Creek						
	Buoys maintained from May 1 to Sep. 15.						
6691	- Buoy 11	41-55-29.020N 083-19-55.430W					Private aid.
6692	- Buoy 12	41-55-29.530N 083-19-59.350W					Private aid.
6695	- Buoy 13	41-55-24.320N 083-19-58.390W				Green can.	Private aid.
6700	- Buoy 14	41-55-24.810N 083-19-59.350W				Red nun.	Private aid.
6705	- Buoy 15	41-55-21.290N 083-20-00.700W				Green can.	Private aid.
6710	- Buoy 16	41-55-22.110N 083-20-01.690W				Red nun.	Private aid.
6715	ENRICO FERMI POWER PLANT INTAKE LIGHTS	41-57-42.000N 083-15-00.000W	F W	26 8		On white pile.	Maintained from Mar. 1 to Dec. 1. Private aid.
6716	*Enrico Fermi Nuclear Power Plant Security Zone Buoy A*	41-58-26.220N 083-15-19.980W	Q Y			White with orange bands.	Private aid.
6716.1	*Enrico Fermi Nuclear Power Plant Security Zone Buoy B*	41-58-30.600N 083-15-00.000W	Q Y			White with orange bands.	Private aid.
6716.2	*Enrico Fermi Nuclear Power Plant Security Zone Buoy C*	41-58-27.960N 083-14-49.020W	Q Y			White with orange bands.	Private aid.
6716.3	*Enrico Fermi Nuclear Power Plant Security Zone Buoy D*	41-58-20.100N 083-14-15.000W	Q Y			White with orange bands.	Private aid.
6716.4	*Enrico Fermi Nuclear Power Plant Security Zone Buoy E*	41-58-12.000N 083-13-42.000W	Q Y			White with orange bands.	Private aid.
6716.5	*Enrico Fermi Nuclear Power Plant Security Zone Buoy F*	41-57-45.960N 083-13-44.220W	Q Y			White with orange bands.	Private aid.
6716.6	*Enrico Fermi Nuclear Power Plant Security Zone Buoy G*	41-57-19.920N 083-13-46.020W	Q Y			White with orange bands.	Private aid.
6716.7	*Enrico Fermi Nuclear Power Plant Security Zone Buoy H*	41-56-54.000N 083-13-48.000W	Q Y			White with orange bands.	Private aid.
6716.8	*Enrico Fermi Nuclear Power Plant Security Zone Buoy I*	41-56-54.000N 083-14-22.920W	Q Y			White with orange bands.	Private aid.
6716.9	*Enrico Fermi Nuclear Power Plant Security Zone Buoy J*	41-56-54.000N 083-14-57.900W	Q Y			White with orange bands.	Private aid.
6717	*Enrico Fermi Nuclear Power Plant Security Zone Buoy K*	41-56-54.060N 083-15-10.560W	Q Y			White with orange bands.	Private aid.
6717.1	*Enrico Fermi Nuclear Power Plant Security Zone Buoy L*	41-56-54.000N 083-15-12.000W	Q Y				Private aid.
	Swan Creek Entrance						
6720	- *Lighted Buoy 1*	41-58-27.960N 083-14-35.940W	Fl G 2.5s	7 2		Green.	Private aid.
6725	- *Lighted Buoy 2*	41-58-30.300N 083-14-34.140W	Fl R 2.5s	7 2		Red.	Private aid.
6730	- Buoy 3	41-58-30.960N 083-14-40.140W				Green can.	Private aid.
6735	- Buoy 4	41-58-32.340N 083-14-40.140W				Red nun.	Private aid.
6736	- *Lighted Buoy 5*	41-58-33.720N 083-14-45.960W	Fl G 2.5s	5 2		Green.	Private aid.
6737	- RANGE FRONT LIGHT 6	41-58-34.400N 083-14-45.000W	F R	10 3		TR on post.	Private aid.
6738	- RANGE REAR LIGHT 80 feet, 315° from front light.	41-58-35.040N 083-14-45.780W	F R	30 9		Three-masted tower.	Private aid.
6740	- *Lighted Buoy 7*	41-58-36.840N 083-14-51.060W	Fl G 2.5s	7 2		Green.	Private aid.
6741	- Daybeacon 8	41-58-37.200N 083-14-56.340W				TR on post.	Private aid.
6742	- Daybeacon 10	41-58-36.200N 083-14-58.800W				TR on post.	Private aid.
6743	- Daybeacon 12	41-58-36.000N 083-15-04.500W				TR on post.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ERIE				
	LAKE ERIE (Chart 14820)						
	Port Colborne						
6755	OUTER LIGHT (C)		F R	36 11		White square tower with red upper portion.	Seasonal. Tower floodlighted. Light intensified over an arc of 030° SSW. Emergency light.
6760	WEST BREAKWATER LIGHT (C)	42-52-12.000N 079-16-06.000W	Fl W 4s	24 7		White circular tower.	Seasonal.
6765	**Inner Light (C)**	42-52-06.000N 079-15-12.000W	Fl W 10s 0.3s fl 9.7s ec.	50 15	17	White square tower, red upper portion.	Seasonal.
6775	*Lighted Buoy E3 (C)*		Fl G 4s			Green.	
6780	EAST BREAKWATER LIGHT (C)		Fl G 4s	35 11		White circular concrete tower with green top.	Seasonal.
6783	*ODAS Lighted Buoy 45142*	42-44-12.000N 079-17-24.000W	Fl (5) Y 20s			Yellow disc shaped hull.	Seasonal.
6785	**Long Point Light (C)**	42-32-54.000N 080-03-00.000W	Fl W8s	97 30	25	White octagonal tower with red upper portion.	RACON: M (- -) Seasonal. Emergency light.
	WEST END OF LAKE ERIE (Chart 14830)						
	Pelee Passage						
6795	**Southeast Shoal Light (C)**	41-49-36.000N 082-27-48.000W	Fl R 10s	70 21	21	White square structure with red stripes on pyramidal base.	RACON: K (- . -) Winter light Fl W 4s. Seasonal. Emergency light.
6805	*East Lighted Buoy E6 (C)*		Fl R 4s			Red.	Spar; winter marker. Seasonal.
6810	*Southeast Shoal Lighted Buoy X (C)*	41-48-42.000N 082-27-48.000W	Mo (A) W			Red and white stripes.	Seasonal.
6815	*Pelee Point Lighted Bell Buoy EP2 (C)*	41-52-12.000N 082-30-30.000W	Fl R 4s			Red.	Seasonal.
6820	*Grubb Reef Lighted Buoy E8 (C)*	41-51-54.000N 082-33-36.000W	Fl R 4s			Red.	Seasonal.
6825	*Traffic Lighted Buoy P (C)*	41-51-48.000N 082-34-30.000W	Mo (A) W			Red and white stripes.	Seasonal.
6830	*Middle Ground Lighted Buoy E9 (C)*	41-51-24.000N 082-34-48.000W	Fl G 4s			Green.	Seasonal.
6835	**Light (C)**	41-51-12.000N 083-34-54.000W	Fl W 4s	91 28	10	White circular tower with green upper and lower portions; on pier.	RACON: M (- -) Winter light Fl W 4s. Seasonal.
6840	*Turning Lighted Buoy E10 (C)*	41-53-12.000N 082-38-42.000W	Fl R 4s			Red.	Seasonal.
6845	SCUDDER BREAKWATER LIGHT (C)	41-49-00.000N 082-39-30.000W	Fl R 4s	24 7		White circular tower with red top.	Seasonal.
6850	SCUDDER WHARF LIGHT (C)	41-48-54.000N 082-39-36.000W	F R	30 9	8	On elevator.	Seasonal.
6855	SCUDDER WHARF INNER LIGHT (C)		Fl R 4s	19 6	7	White circular tower with red upper portion.	Seasonal.
6865	*North Harbor Island Reef Lighted Buoy E13 (C)*	41-51-00.000N 082-51-12.000W	Fl G 4s			Green.	Seasonal.
6870	COLCHESTER REEF LIGHT (C) Marks south side of reef.	41-56-00.000N 082-53-30.000W	Fl R 4s	72 22	6	Red skeleton tower with red rectangular daymark on two sides.	Seasonal.
6875	MIDDLE SISTER ISLAND LIGHT (C)	41-51-00.000N 082-59-54.000W	Fl G 4s	65 20	6	White square skeleton tower.	May be obscured by trees from south-southwest approaches. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	WEST END OF LAKE ERIE (Chart 14830)						
	Detroit River Entrance						
	East Outer Channel						
	Buoys maintained from Apr. 1 to Dec. 21.						
6885	**Detroit River Light**	42-00-02.948N 083-08-28.483W	Fl (2)W 6s	55 17	12	White conical tower with black top on hexagonal top.	RACON: X (- . . -) HORN: 1 blast ev 30s (3s bl). Operates continuously.
6895	**- Light 1E**	41-54-49.716N 083-06-25.044W	Fl G 5s	44 13	10	Tower on platform with green band.	RACON: O (- - -) RACON: O (- - -) HORN: 2 blasts ev 60s (3s bl-3s si-3s bl-51s si). Operates Year Round.
6900	- *Lighted Buoy 2*	41-55-16.800N 083-06-18.660W	Q R		5	Red.	Replaced by nun from Dec. 21 to Apr. 01.
6905	- *Lighted Buoy 3*	41-55-13.550N 083-06-32.640W	Fl G 4s		4	Green.	Maintained from Apr. 1 to Dec. 21.
6910	- *Lighted Buoy 5*	41-56-04.427N 083-06-53.426W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 21 to Apr. 01.
6915	- *Lighted Buoy 6*	41-56-07.780N 083-06-38.250W	Fl R 2.5s		4	Red.	Replaced by nun from Dec.21 to Apr. 01.
	DETROIT RIVER (Chart 14848)						
	East Outer Channel						
	Buoys maintained from Apr. 1 to Dec. 21.						
6920	- *Lighted Buoy 7*	41-56-55.693N 083-07-13.032W	Fl G 4s		4	Green.	
6925	- *Lighted Buoy 8*	41-56-58.210N 083-06-57.910W	Fl R 4s		4	Red.	
6930	- *Lighted Buoy 9*	41-57-45.050N 083-07-31.990W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
6935	- LIGHT 10	41-57-48.000N 083-07-17.000W	Fl R 2.5s	44 13	7	Cylindrical tower with red band on platform.	
6940	- *Lighted Buoy 11*	41-58-35.760N 083-07-52.040W	Fl G 4s		4	Green.	
6945	- *Lighted Buoy 12*	41-58-38.980N 083-07-37.410W	Fl R 4s		4	Red.	
6950	- *Lighted Buoy 13*	41-59-24.900N 083-08-10.410W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
6955	- *Lighted Buoy 14*	41-59-27.416N 083-07-56.689W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
6960	- *Lighted Buoy 16*	42-00-17.260N 083-08-14.030W	Q R		5	Red.	Replaced by nun from Dec. 21 to Apr. 1. AIS MMSI: 993672205
	Amherstburg Channel						
6965	- *Lighted Buoy 23*	42-00-44.711N 083-08-29.827W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1. AIS MMSI: 993672206
6970	*Lighted Buoy D24 (C)*		Fl R 4s			Red.	Seasonal.
6975	- Buoy 25	42-01-03.310N 083-08-25.677W				Green can.	
6980	DETROIT RIVER PIER LIGHT 30D (C)	42-01-36.000N 083-08-06.000W	Q R	33 10		White circular with red top.	
6985	*Lighted Buoy D31 (C)*		Fl G 4s			Green.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Amherstburg Channel						
6990	*Lighted Buoy D32 (C)*		Fl R 4s			Red.	Seasonal.
6995	**Bar Point Pier Light D33 (C)**	42-02-24.100N 083-08-03.600W	Fl G 10s	46 14	10	White square tower.	Light obscured from 090° to 191°.
7000	BAR POINT RANGE FRONT LIGHT D49 (C)	42-04-12.000N 083-07-24.000W	F Y	27 8		Fluorescent orange triangular daymark on white circular tower with green upper portion and black vertical stripe.	Visible on range line only.
7005	BAR POINT RANGE REAR LIGHT (C) 2,500 feet, 013.5º from front light.		F Y	58 18		Fluorescent orange triangular daymark on white circular tower with green upper portion and black vertical stripe.	Visible on range line only.
7010	*Lighted Buoy D35 (C)*		Q G			Green.	Seasonal.
7015	*Lighted Buoy D36 (C)*		Q R			Red.	Seasonal.
7020	HACKETT REACH RANGE FRONT LIGHT (C)	42-05-48.000N 083-06-48.000W	F R	45 14		Orange triangular daymark with black stripes on pile.	Visible on range line only.
7025	HACKETT REACH RANGE REAR LIGHT (C) 994 feet, 014.9º from front light.		F R	80 24		Orange triangular daymark with black stripes on white skeleton tower.	Visible on range line only.
7030	*Lighted Buoy D37 (C)*	42-03-06.000N 083-07-48.000W	Fl G 4s			Green.	Seasonal.
7035	*Lighted Buoy D38 (C)*		Fl R 4s			Red.	Seasonal.
7040	*Lighted Buoy D43 (C)*		Fl G 4s			Green.	Seasonal.
7045	*Lighted Buoy D44 (C)*		Fl R 4s			Red.	Seasonal.
7050	*Lighted Buoy D45 (C)*	42-03-48.000N 083-07-30.000W	Fl G 4s			Green.	Seasonal.
7055	*Lighted Buoy D46 (C)*	42-03-48.000N 083-07-30.000W	Fl R 4s			Red.	Seasonal.
7060	*Lighted Buoy D50 (C)*		Fl R 4s			Red.	Seasonal.
7070	*Lighted Buoy D52 (C)*		Fl R 4s			Red.	Seasonal.
7075	LIGHT D53 (C)	42-05-12.000N 083-07-06.000W	Fl G 4s	31 9		White circular tower with green top.	
7080	*Lighted Buoy D56 (C)*		Q R			Red.	Seasonal.
7085	*Lighted Buoy D57 (C)*		Q G			Green.	Seasonal.
7090	AMHERSTBURG RANGE FRONT LIGHT D65 (C)	42-06-48.000N 083-07-06.000W	F Y	27 8		Orange triangular daymark with black stripe on white circular tower with green top.	
7095	AMHERSTBURG RANGE REAR LIGHT (C) 1,138 feet, 355.8º from front light.		F Y	40 12		Orange triangular daymark with black stripe on white circular tower with green top.	Visible on range line only.
7100	*Lighted Buoy D59 (C)*		Fl G 4s			Green.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Amherstburg Channel						
7105	*Lighted Buoy D60 (C)*		Fl R 4s			Red.	Seasonal.
7110	LIGHT D61 (C)	42-06-00.000N 083-07-06.000W	Fl G 4s	41 13		White circular tower with green top.	Visible on range line only.
7115	*Lighted Buoy D63 (C)*		Q G			Green.	Seasonal.
	Limekiln Crossing Reach Channel						
7120	*Lighted Buoy D64 (C)*		Q R			Red.	Seasonal.
7125	LIMEKILN CROSSING RANGE FRONT LIGHT (C)	42-07-42.000N 083-06-54.000W	F R	24 7		Orange triangular daymark with black stripe on skeleton tower.	Visible on range line only. Range leads to Fort Malden Range Line.
7130	LIMEKILN CROSSING RANGE REAR LIGHT (C) 1,185 feet, 002.9º from front light.		F R	40 12		Orange inverted triangular daymark with black stripe on white circular mast.	Visible on range line only.
7135	*Lighted Buoy D67 (C)*		Fl G 4s			Green.	Seasonal.
7140	*Lighted Buoy D68 (C)*		Fl R 4s			Red.	Seasonal.
7145	LIGHT D69 (C)	42-07-18.000N 083-07-00.000W	Q G	27 8		White circular tower with green top.	
	Ballards Reef Channel						
7150	*Lighted Buoy D72 (C)*		Q R			Red.	Seasonal.
7155	FORT MALDEN RANGE FRONT LIGHT (C) Marks Ballards Reef Channel.	42-06-54.000N 083-06-42.000W	F R	45 14		Orange triangular daymark with black vertical stripe on white circular tower.	Visible on range line only.
7160	FORT MALDEN RANGE REAR LIGHT (C) 383 feet, 162.5º from front light.		F R	76 23		Orange inverted triangular daymark with black vertical stripe on white skeleton tower.	Visible on range line only.
7165	GROSSE ILE SOUTH CHANNEL RANGE FRONT LIGHT	42-11-07.082N 083-08-31.011W	F G	30 9		KRW on square skeleton tower.	Lighted throughout 24 hours.
7170	GROSSE ILE SOUTH CHANNEL RANGE REAR LIGHT 1,491 feet, 342.6° from front light.	42-11-21.132N 083-08-36.947W	F G	55 17		KRW on square skeleton tower.	Lighted throughout 24 hours.
7175	LIGHT D71 (C)	42-07-24.000N 083-07-06.000W	Fl G 4s	33 10		White circular tower with green top.	
7185	*Lighted Buoy D74 (C)*		Fl R 4s			Red.	Seasonal.
7190	*Lighted Buoy D76 (C)*		Fl R 4s			Red.	Seasonal.
7195	**Livingstone Channel Upper Entrance Light (C)**	42-08-12.000N 083-07-18.000W	Al WR 10s	40 12	15	White circular tower mounted on white square crib.	Emergency light Fl (2) W 15s. HORN: (two-tone) 1 blast ev 15s (4s bl). Operates year round.
7200	**Light D77 (C)**	42-08-30.000N 083-07-30.000W	Fl G 5s	37 11	10	Green stripes on the corners of a white square tower.	
7205	*Lighted Buoy D78 (C)*		Fl R 4s			Red.	Seasonal.
7210	- *Lighted Buoy 81*	42-09-07.798N 083-07-45.293W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Ballards Reef Channel						
7220	*Lighted Buoy DFB (C)*	42-09-12.000N 083-07-36.000W				Red with green band.	Seasonal.
7225	- *Lighted Buoy 85*	42-09-49.267N 083-08-02.294W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
7230	- *Lighted Buoy 86*	42-10-10.747N 083-08-02.924W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
7231	GROSSE ILE LIGHT	42-10-03.000N 083-08-22.000W	Iso W 2s	45 14			Private aid.
7235	- *Lighted Buoy 87*	42-10-17.867N 083-08-14.414W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
	Livingstone Channel						
7240	- LIGHT 25	42-07-45.370N 083-07-31.220W	Fl G 2.5s	34 10	3	White cylindrical tower with green band.	
7245	- LIGHT 26	42-07-44.950N 083-07-24.680W	Fl R 2.5s	34 10	4	White cylindrical tower with red band.	
7250	- LIGHT 23	42-07-17.700N 083-07-34.740W	Iso G 6s	34 10	3	White cylindrical tower with green band.	
7255	- LIGHT 24	42-07-17.228N 083-07-28.320W	Iso R 6s	34 10	4	White cylindrical tower with red band.	
7260	- LIGHT 21	42-06-49.959N 083-07-38.518W	Fl G 2.5s	34 10	3	White cylindrical tower with green band.	
7265	LIGHT DL22 (C)		Fl R 4s	38 12	6	White circular tower with red top.	
7270	LIGHT DL20 (C)		Iso R 2s 1s fl 1s ec.	34 10	6	White circular tower with red top.	
7275	- LIGHT 19	42-06-21.214N 083-07-42.934W	Iso G 6s	34 10	3	White cylindrical tower with green band.	
7280	LIGHT DL17 (C)		Fl G 4s	34 10		White circular tower with green top.	Obscured from 010° to 175°.
7285	LIGHT DL18 (C)		Fl R 4s	34 10	6	White circular tower with red top.	
7290	LIGHT DL15 (C)		Iso G 2s 1s fl 1s ec.	34 10		White circular tower with green top.	
7295	LIGHT DL16 (C)		Iso R 2s 1s fl 1s ec.	34 10	6	White circular tower with red top.	
7300	LIGHT DL13 (C)		Fl G 4s	34 10		White circular tower with green top.	
7305	LIGHT DL14 (C)		Fl R 4s	34 10		White circular tower with red top.	
7310	*Lighted Buoy Dl6 (C)*		Fl R 4s			Red.	Seasonal.
7315	*Lighted Buoy Dl5 (C)*		Fl G 4s			Green.	Seasonal.
7320	*Lighted Buoy Dl1 (C)*	42-02-30.000N 083-08-12.000W	Fl G 4s			Green.	Seasonal.
	Detroit River Entrance						
	West Outer Channel						
7325	- Buoy 9	42-00-04.044N 083-08-41.355W				Green can.	
7330	- Buoy 8	41-59-13.589N 083-08-44.258W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Detroit River Entrance						
	West Outer Channel						
7335	- Buoy 7	41-59-14.991N 083-08-55.069W				Green can.	
7340	- Buoy 6	41-58-31.242N 083-08-56.133W				Red nun.	
7345	- Buoy 5	41-58-33.280N 083-09-06.569W				Green can.	
7350	- Buoy 4	41-57-46.423N 083-09-08.773W				Red nun.	
7355	- Buoy 3	41-57-48.096N 083-09-19.070W				Green can.	
7360	- Buoy 2	41-57-02.620N 083-09-20.146W				Red nun.	
7365	- *Lighted Buoy 1W*	41-57-00.954N 083-09-32.344W	Fl G 6s		6	Green.	Replaced by can from Dec. 7 to May 7.
	Point Mouillee						
7370	Point Mouilee Access Channel Buoy 1	42-00-11.381N 083-08-46.678W				Green can.	
7375	- Access Channel Buoy 2	42-00-15.068N 083-08-45.263W				Red nun.	
7380	- Access Channel Buoy 3	42-00-20.591N 083-09-45.501W				Green can.	
7385	Point Mouilee Access Channel Buoy 4	42-00-22.851N 083-09-44.411W				Red nun.	
	Metro Park Marina *Buoys maintained from Apr. 1 to Nov. 1.*						
7390	*South Huron Valley Outfall West Lighted Buoy*	42-03-09.000N 083-09-50.000W	Q W			White with orange bands and orange diamond worded DANGER OUTFALL.	Maintained from May 1 to Nov. 1. Private aid.
7395	*South Huron Valley Outfall Center Lighted Buoy*	42-03-09.500N 083-09-48.000W	Q W			White with orange bands and orange diamond worded DANGER OUTFALL.	Maintained from May 1 to Nov. 1. Private aid.
7400	*South Huron Valley Outfall East Lighted Buoy*	42-03-08.800N 083-09-46.000W	Q W			White with orange bands and orange diamond worded DANGER OUTFALL.	Maintained from May 1 to Nov. 1. Private aid.
7405	- *Lighted Buoy 1*	42-03-09.500N 083-10-49.000W	Fl G 4s			Green.	Private aid.
7410	- *Lighted Buoy 2*	42-03-12.000N 083-10-49.000W	Fl R 4s			Red.	Private aid.
7415	- Buoy 3	42-03-09.500N 083-10-55.000W				Green can.	Private aid.
7420	- Buoy 4	42-02-12.000N 083-10-54.000W				Red nun.	Private aid.
7425	- Buoy 5	42-03-09.500N 083-11-00.000W				Green can.	Private aid.
7430	- Buoy 6	42-03-12.000N 083-11-00.000W				Red nun.	Private aid.
7435	- Buoy 7	42-03-09.500N 083-11-05.000W				Green can.	Private aid.
7440	- Buoy 8	42-03-12.500N 083-11-05.000W				Red nun.	Private aid.
7445	- RANGE FRONT LIGHT	42-03-12.000N 083-11-36.000W	Fl R 4s	15 5		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
7450	- RANGE REAR LIGHT 100 yards, 270° from front light.	43-03-10.500N 083-11-37.000W	F R	30 9		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Detroit River Entrance						
	Hickory Island Channel						
	Buoys maintained from May 14 to Nov. 21.						
7455	- Buoy 1	42-04-22.855N 083-09-39.030W				Green can.	Maintained from 14 May to 21 November
7460	- *Lighted Buoy 2*	42-04-21.765N 083-09-11.958W	Fl R 4s		4	Red nun.	Maintained from May 14 to Nov. 21.
7465	- Buoy 3	42-04-39.565N 083-09-37.740W				Green can.	Maintained from May 14 to Nov. 21.
	Ford Yacht Club						
	Aids maintained from Apr. 15 to Nov. 1.						
7468	- East Basin Entrance Buoy 1	42-05-14.000N 083-10-13.300W				Green can.	Private aid.
7469	- East Basin Entrance Buoy 2	42-05-13.800N 083-10-11.000W				Red nun.	Private aid.
7470	- EAST BASIN ENTRANCE LIGHT 3	42-05-20.000N 083-10-11.200W	Q G	6 2		On single post.	Private aid.
7471	- EAST BASIN ENTRANCE LIGHT 4	42-05-20.000N 083-10-09.000W	Fl R 2.5s			On single post.	Private aid.
7472	- EAST BASIN RANGE FRONT LIGHT	42-05-27.000N 083-10-08.000W	F R			4ft light pipe centered on white diamond daymark.	Private aid.
7473	- EAST BASIN RANGE REAR LIGHT	42-05-27.200N 083-10-08.300W	F R			4ft light pipe centered on white diamond daymark.	Private aid.
7480	- West Basin Entrance Buoy 1	42-05-19.500N 083-10-18.500W				Green can.	Private aid.
7485	- West Entrance Buoy 2	42-05-19.000N 083-10-16.000W				Red nun.	Private aid.
7490	- WEST BASIN ENTRANCE LIGHT 3	42-05-24.100N 083-10-16.500W	Q G	6 2		On single post.	Private aid.
7495	- WEST BASIN ENTRANCE LIGHT 4	42-05-24.000N 083-10-14.900W	Q R	6 2		On single post.	Private aid.
7500	- WEST BASIN RANGE FRONT LIGHT	42-05-24.000N 083-10-12.000W	F R			4 ft light pipe centered on white diamond daymark.	Private aid.
7505	- WEST BASIN RANGE REAR LIGHT	42-05-27.000N 083-10-12.200W	F R			4 ft light pipe centered on white diamond daymark.	Private aid.
	Hickory Island Channel						
	Buoys maintained from May 14 to Nov. 21.						
7550	- Buoy 4	42-04-38.885N 083-09-20.559W				Red nun.	
7555	- *Lighted Junction Buoy H*	42-04-42.884N 083-09-24.269W	Fl (2+1)G 6s		4	Green can.	Maintained from May 14 to Nov. 21.
7560	- Buoy 7	42-04-59.192N 083-09-12.257W				Green can.	
7565	- *Lighted Buoy 8*	42-05-04.374N 083-09-03.248W	Fl R 4s		4	Red.	Maintained from 14 May to 21 November.
7570	- Buoy 10 Marks shoal.	42-05-15.780N 083-08-58.534W				Red nun.	
7575	GROSSE ILE YACHT CLUB HARBOR SOUTH ENTRANCE LIGHT	42-05-23.900N 083-09-03.300W	Fl G 2s	8 2		On black post.	Private aid.
7580	GROSSE ILE YACHT CLUB HARBOR NORTH ENTRANCE LIGHT	42-05-24.200N 083-09-03.200W	Fl R 2s	8 2		On red post.	Maintained from May 1 to Nov. 1. Private aid.
7585	ELBA-MAR BOAT CLUB RANGE FRONT LIGHT	42-05-51.700N 083-09-00.200W	F G	10 3		Orange and black diamond daymark.	Maintained from Apr. 1 to Dec. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Detroit River Entrance						
	Hickory Island Channel						
	Buoys maintained from May 14 to Nov. 21.						
7590	ELBA-MAR BOAT CLUB RANGE REAR LIGHT 250 feet, 306° from front light.	42-05-53.000N 083-09-03.000W	F G	18 5		Orange and black diamond daymark.	Maintained from Apr. 1 to Dec. 1. Private aid.
7595	Elba-Mar Boat Club Entrance Buoy 1	42-05-48.500N 083-08-54.000W				Green can.	Private aid.
7600	Elba-Mar Boat Club Entrance Buoy 2	42-05-49.000N 083-08-54.500W				Red nun.	Private aid.
7605	- Buoy 12	42-05-40.532N 083-08-38.016W				Red nun.	
7610	- Buoy 13	42-05-46.793N 083-08-38.786W				Green can.	
7615	- Buoy 16	42-06-15.990N 083-08-04.829W				Red nun.	
7620	Powder House Island Junction Buoy	42-06-23.452N 083-08-08.325W				Green and red bands; can.	
7625	- Shoal Buoy	42-06-22.752N 083-07-57.824W				Red and green bands; nun.	Maintained year round.
	Powder House Island Channel						
	Buoys maintained from May 14 to Nov. 21.						
7630	- Buoy 1	42-06-24.482N 083-08-17.107W				Green can.	
7635	- Buoy 2	42-06-42.186N 083-08-16.438W				Red nun.	
7640	- Buoy 4	42-06-44.962N 083-08-19.325W				Red nun.	
7645	- Buoy 6	42-06-48.306N 083-08-19.900W				Red nun.	
	Lake Erie Metropark Boat Launch						
	Buoys maintained from Apr. 1 to Oct. 1.						
7651	- *Lighted Buoy 1*	42-04-40.900N 083-11-22.200W	Fl G 4s			Green.	Private aid.
7651.1	- *Lighted Buoy 2*	42-04-41.400N 083-11-22.000W	Fl R 4s			Red.	Private aid.
7651.2	- Buoy 3	42-04-42.600N 083-11-27.100W				Green can.	Private aid.
7651.3	- Buoy 4	42-04-43.000N 083-11-22.200W				Red nun.	Private aid.
7651.4	- Buoy 5	42-04-44.200N 083-11-32.000W				Green can.	Private aid.
7651.5	- Buoy 6	42-04-44.700N 083-11-31.600W				Red nun.	Private aid.
7651.6	- Buoy 7	42-04-45.800N 083-11-36.800W				Green can.	Private aid.
	Gibraltar South Harbor Channel						
	Aids maintained from Apr. 1 to Dec. 1.						
7655	- RANGE FRONT LIGHT	42-04-44.200N 083-11-12.000W	F R	7 2		On red pile.	Private aid.
7660	- RANGE REAR LIGHT 100 feet, 268° from front light.	42-04-44.200N 083-11-10.500W	F R			Red on white diamond daymark.	Private aid.
7665	- LIGHT 1	42-04-44.000N 083-11-00.000W	Fl G 2.5s			On pile cluster.	Private aid.
7670	- LIGHT 2	42-04-44.200N 083-11-00.000W	Fl R 2.5s			On pile cluster.	Private aid.
7671	- Daybeacon 3	42-04-44.500N 083-11-04.800W				SG on single pile.	Private aid.
7672	- Daybeacon 4	42-04-43.600N 083-11-04.400W				TR on single pile.	Private aid.
7675	- LIGHT 5	42-04-44.000N 083-11-09.000W	Q G			On pile cluster.	Private aid.
7680	- LIGHT 6	42-04-44.500N 083-11-09.000W	Q R			On pile cluster.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Detroit River Entrance						
	Gibraltar South Harbor Channel *Aids maintained from Apr. 1 to Dec. 1.*						
7685	- LIGHT 7	42-04-46.500N 083-11-13.000W	Q G			On pile cluster.	Private aid.
7690	- LIGHT 8	42-04-47.100N 083-11-13.800W	Q R			On pile cluster.	Private aid.
7695	- LIGHT 9	42-04-47.000N 083-11-20.800W	Q G			On pile cluster.	Private aid.
7700	- LIGHT 10	42-04-47.800N 083-11-20.800W	Q R			On pile cluster.	Private aid.
	Celeron Island *Aids maintained from May 14 to Nov. 21.*						
7701	- Buoy 1	42-04-53.000N 083-09-52.000W				Green can.	
7703	- Buoy 3	42-05-15.584N 083-10-23.881W				Green can.	
	Gilbralter Middle Channel *Aids maintained from Apr. 1 to Dec. 1.*						
7705	GILBRALTAR MIDDLE CHANNEL SOUTH LIGHT	42-05-11.500N 083-11-06.100W	Fl G 2.5s			On pile cluster.	Private aid.
7710	GILBRALTAR MIDDLE CHANNEL NORTH LIGHT	42-05-12.000N 083-11-06.100W	Fl R 2.5s			On pile cluster.	Private aid.
	Celeron Island *Aids maintained from May 14 to Nov. 21.*						
7711	- Buoy 4	42-05-22.000N 083-10-33.000W				Red nun.	
7712	- Buoy 5	42-05-26.918N 083-10-44.543W				Green can.	
7713	- Buoy 7	42-05-47.000N 083-10-57.000W				Green can.	
7714	- Buoy 8	42-05-53.000N 083-10-54.000W				Red nun.	
	Gibraltar North Channel *Aids maintained from Apr. 1 to Dec. 1.*						
7715	- RANGE FRONT LIGHT	42-05-54.000N 083-11-12.000W	F R	7 2		Red on white diamond daymark on post.	Private aid.
7720	- RANGE REAR LIGHT 10 feet, 239° from front light.	42-05-42.000N 083-11-24.000W	F R	14 4		Red on white diamond daymark on pile.	Private aid.
7725	- LIGHT 1	42-05-58.000N 083-11-04.400W	Fl G 2.5s	10 3		On pile cluster.	Private aid.
7730	- LIGHT 2	42-05-58.500N 083-11-00.500W	Fl R 2.5s	10 3		On pile cluster.	Private aid.
	Fighting Island Channel						
7735	- SOUTH LIGHT	42-10-22.780N 083-08-03.960W	Iso R 6s	35 11	8	TR on post.	
7740	*Mamajuda Shoal Junction Lighted Buoy*	42-10-53.876N 083-08-12.094W	Fl (2+1)G 6s		4	Green and red bands.	Replaced by can from Dec. 21 to Apr. 1.
7745	- Buoy 88	42-10-58.266N 083-08-01.354W				Red nun.	
7755	- *Lighted Buoy 89*	42-11-31.662N 083-08-08.023W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
7760	- *Lighted Buoy 90*	42-11-31.645N 083-07-58.023W	Fl R 4s		4	Red.	Maintained from Apr. 1 to Dec. 21.
7765	- *Lighted Buoy 91*	42-12-23.434N 083-08-03.314W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
7770	- *Lighted Buoy 92*	42-12-22.844N 083-07-52.723W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Fighting Island Channel						
7775	- Buoy 93	42-13-03.179N 083-07-59.207W				Green can.	
7780	- Buoy 94	42-13-02.203N 083-07-48.953W				Red nun.	
7785	GRASSY ISLAND LIGHT	42-13-27.480N 083-07-59.280W	Fl G 4s	26 8	5	SG on cylindrical tower with 6 foot green band.	Higher intensity beam up and down stream.
7790	- Buoy 96	42-13-27.072N 083-07-46.353W				Red nun.	
7805	- *Lighted Buoy 97*	42-13-47.732N 083-07-54.773W	Fl G 4s		4	Green.	Maintained from Apr. 1 to Dec. 21.
7810	- Buoy 98 Marks shoal.	42-13-57.001N 083-07-43.102W				Red nun.	
7815	NORTH LIGHT (C)		Iso R 4s	27 8	7	White circular tower with red upper portion.	
7820	Grosse Ile Basin Buoy 1	42-10-21.276N 083-08-26.995W				Green can.	
7825	Grosse Ile Basin Buoy 3	42-10-29.276N 083-08-28.575W				Green can.	
7830	Grosse Ile Basin Buoy 5	42-10-40.496N 083-08-29.905W				Green can.	
	Wyandotte Channel						
7835	- South Entrance Buoy 2	42-11-03.335N 083-08-20.885W				Red nun.	
7840	- *Lighted Buoy 3*	42-11-03.130N 083-08-25.865W	Q G		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
7845	- Buoy 4	42-11-20.505N 083-08-23.265W				Red nun.	
7850	- Buoy 6	42-11-38.255N 083-08-25.255W				Red nun.	
7855	- *Lighted Buoy 7*	42-11-57.208N 083-08-26.021W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
7860	- Buoy 9	42-12-09.891N 083-08-25.611W				Green can.	
7865	*Grosse Isle Spit Junction Lighted Buoy* Marks shoal.	42-12-19.314N 083-08-31.355W	Fl (2+1)G 6s		4	Green and red bands.	Replaced by can from Dec. 14 to Apr.07.
7870	- Buoy 12	42-12-21.341N 083-08-24.334W				Red nun.	
7875	- Buoy 14	42-12-31.603N 083-08-24.284W				Red nun.	
7880	- *Lighted Buoy 16*	42-13-02.613N 083-08-17.114W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.
7885	- *Lighted Buoy 18*	42-13-41.642N 083-08-39.125W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.
7890	- *Lighted Buoy 20*	42-13-52.941N 083-08-39.225W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr.7.
7895	*Mud Island Junction Lighted Buoy*	42-13-53.741N 083-08-45.325W	Fl (2+1)G 6s		4	Green and red bands.	Replaced by can from Dec. 14 to Apr.7.
7900	- Buoy 21	42-14-03.041N 083-08-36.825W				Green can.	
7905	- *Lighted Buoy 22*	42-14-01.341N 083-08-33.425W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr.07.
7910	- Buoy 23	42-14-13.151N 083-08-24.274W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Fighting Island Channel						
	Wyandotte Channel						
7915	- Buoy 24	42-14-10.711N 083-08-21.124W				Red nun.	
7920	- *Lighted Buoy 25*	42-14-27.381N 083-08-01.753W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr.7.
7925	- *North Junction Lighted Buoy*	42-14-25.431N 083-07-58.643W	Fl (2+1)R 6s		4	Red and green bands.	Replaced by nun from Dec. 14 to Apr 7.
	Trenton Channel						
7945	- *Lighted Buoy 1*	42-07-22.651N 083-10-35.032W	Q G		4	Green.	Replaced by can from Dec. 14 to Apr.7.
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Macray West Harbor Entrance *Buoys maintained from Apr. 15 to Nov. 15.*						
7947	*Canadian Weather Spar Buoy 1159 (C)*	42-07-42.000N 083-10-34.000W	F Y				Maintained from Apr.1 to Nov.30. Private aid.
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Fighting Island Channel						
	Trenton Channel						
7950	- Buoy 2	42-07-22.161N 083-10-29.151W				Red nun.	
7955	- Buoy 3	42-07-35.150N 083-10-30.531W				Green can.	
7960	- Buoy 4	42-07-35.450N 083-10-26.431W				Red nun.	
7965	- *Lighted Buoy 5*	42-07-48.950N 083-10-26.531W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr.7.
7970	- Buoy 6	42-07-49.950N 083-10-23.331W				Red nun.	
7980	- *Lighted Buoy 7*	42-08-17.464N 083-10-21.004W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
7985	- *Lighted Buoy 8*	42-08-17.034N 083-10-18.164W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.
8000	- *Lighted Buoy 9*	42-08-49.949N 083-10-14.130W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
8005	- *Lighted Buoy 10*	42-08-49.489N 083-10-10.170W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.
8010	- Buoy 10A	42-09-23.874N 083-09-52.980W				Red nun.	
8025	- *Lighted Buoy 11*	42-09-23.518N 083-09-57.944W	Fl G 2.5s		4	Green can.	
8030	- *Lighted Buoy 12*	42-09-37.767N 083-09-46.194W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to April 07.
8035	- *Lighted Buoy 13*	42-09-48.547N 083-09-49.229W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
8055	- *Lighted Buoy 15*	42-10-09.725N 083-09-48.824W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr 7.
8060	- *Lighted Buoy 16*	42-10-09.507N 083-09-45.729W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Fighting Island Channel						
	Trenton Channel						
8065	- *Lighted Buoy 17*	42-10-42.986N 083-09-32.408W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
8070	- Buoy 18	42-10-42.478N 083-09-28.071W				Red nun.	
8075	- *Lighted Buoy 20*	42-11-15.595N 083-09-02.056W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.
8080	- *Lighted Buoy 21*	42-11-54.814N 083-08-53.844W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
8085	- *Lighted Buoy 22*	42-11-54.144N 083-08-49.126W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Macray West Harbor Entrance						
	Buoys maintained from Apr. 15 to Nov. 15.						
8086	*Canadian Weather Spar Buoy 1161 (C)*	42-10-13.000N 083-09-51.000W	F Y				Maintained from Apr.1 to Nov.30. Private aid.
8087	*Canadian Weather Spar Buoy 1179 (C)*	42-13-21.000N 083-08-35.000W	F Y				Maintained from Apr.1 to Nov.30. Private aid.
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Fighting Island Channel						
	Ecorse Channel						
8090	- Buoy 2	42-14-12.049N 083-08-45.006W				Red nun.	Maintained from Apr. 7 to Nov. 1.
8095	- Buoy 4	42-14-26.025N 083-08-31.126W				Red nun.	Maintained from Apr. 7 to Nov. 1.
8100	- Buoy 5	42-14-29.700N 083-08-25.474W				Green can.	Maintained from Apr. 7 to Nov. 1.
8105	- Buoy 6	42-14-31.960N 083-08-06.863W				Red nun.	Maintained from Apr. 7 to Nov. 1.
8110	- *Lighted Buoy 7*	42-14-33.886N 083-08-07.346W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Nov. 1.
	Above Fighting Island						
8115	*Fighting Island North Lighted Buoy 104D (C)*	42-15-01.600N 083-06-57.700W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
8120	*Fighting Island Anchorage Lighted Buoy Dq (C)*	42-15-06.000N 083-06-54.000W	Fl Y 4s			Yellow.	Seasonal.
8125	FIGHTING ISLAND NORTH ANCHORAGE LIGHT (C)	42-15-41.100N 083-06-19.300W	Fl Y 4s	32 10	3	SY with black anchor on yellow circular tower.	Visible all around. Seasonal.
8130	GREAT LAKES STEEL BOAT CLUB SOUTH LIGHT Marks entrance to marina.	42-15-38.000N 083-07-02.500W	F G	8 2		On post.	Private aid.
8135	GREAT LAKES STEEL BOAT CLUB NORTH LIGHT Marks entrance to marina.	42-15-39.200N 083-07-01.700W	F R	15 5		On post.	Private aid.
8147	MARINER'S MEMORIAL LIGHTHOUSE	42-16-10.200N 083-06-42.000W				Red and White.	Private aid.
8150	DETROIT EDISON CELL LIGHT SOUTH	42-16-25.000N 083-06-36.000W	Q W	20 6		On pile.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Above Fighting Island						
8155	DETROIT EDISON CELL LIGHT NORTH	42-16-27.000N 083-06-36.000W	Q W	20 6		On pile.	Private aid.
8160	*River Rouge Canal Entrance Lighted Buoy 2*	42-16-31.188N 083-06-33.297W	Fl R 4s		4	Red.	AIS MMSI: 993672207
8170	*Detroit River Lighted Buoy D108 (C)*	42-18-48.000N 083-04-06.000W	Fl R 4s			Red.	Seasonal.
8195	Third Street Junction Buoy	42-19-24.187N 083-03-04.814W				Green and red bands; can.	
8200	Griswold Street Junction Buoy	42-19-30.937N 083-02-34.213W				Green and red bands; can.	
8201	TRI-CENTENNIAL STATE PARK ENTRANCE LIGHT 1	42-19-55.750N 083-01-32.230W	Fl G 4s			On single pile.	Private aid.
8202	TRI-CENTENNIAL STATE PARK ENTRANCE LIGHT 2	42-19-56.260N 083-01-30.310W	Fl R 4s			On side of Lighthouse.	Private aid.
8205	*Belle Isle Lower Junction Lighted Buoy*	42-19-54.837N 083-00-56.810W	Fl (2+1)G 6s		4	Green and red bands.	Replaced by can from Dec. 21 to Apr. 1. AIS MMSI: 993672208
	Fleming Channel						
8210	BELLE ISLE LIGHT	42-20-24.075N 082-57-35.678W	F G	30 9	7	On pile.	
8215	*Lighted Buoy D110 (C)*	42-20-30.000N 082-57-06.000W	Fl R 4s			Red.	Seasonal.
8220	*Livingstone Memorial Lighted Buoy 111*	42-20-35.689N 082-57-15.805W	Fl G 4s		4	Green.	
8225	*Lighted Buoy DPB Of Shoal (C)*					Red with green band.	Spar; winter marker. Seasonal.
8230	*Belle Isle Upper Junction Lighted Buoy*	42-21-02.126N 082-56-43.563W	Fl (2+1)G 6s		4	Green and red bands.	Maintained from Apr. 1 to Dec. 21.
8235	PECHE ISLAND LIGHT	42-20-54.450N 082-56-33.500W	Fl R 4s	44 13	6	TR on cylindrical tower.	Higher intensity beam up and down stream.
8240	**William Livingstone Memorial Light**	42-20-49.132N 082-57-15.807W	Oc W 4s	58 18	14	Pyramidal monumental structure.	Lighted throughout 24 hours.
8245	*Belle Isle North Lighted Buoy 113*	42-21-08.263N 082-56-34.162W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1. AIS MMSI: 993672209
8250	*Starboard Lagoon Obstruction Lighted Buoy* Marks submerged barge.	42-21-21.000N 082-56-35.000W				White with orange bands and diamond.	Maintained from Apr. 1 to Nov. 1. Private aid.
8255	*Peche Island Lighted Buoy 114*	42-21-10.246N 082-55-57.404W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1. AIS MMSI: 993672210
8260	**Windmill Point Light**	42-21-27.225N 082-55-47.859W	Iso W 6s	42 13	15	Tower.	
8265	WINDMILL POINT PARK BREAKWATER OUTER LIGHT	42-21-30.000N 082-55-41.000W	Q W	3 1		On pile.	Length to breakwater is marked by 13 equally spaced fixed red lights. Private aid.
8270	WINDMILL POINT PARK BREAKWATER INNER LIGHT	42-21-30.000N 082-55-41.000W	Q W	3 1		On pile.	Private aid.
	Belle Isle North Channel						
	Scott Middle Ground *Buoys maintained from Apr. 1 to Nov. 14.*						
8280	- Lower Junction Buoy	42-20-08.277N 083-00-31.209W				Red and green bands; nun.	Maintained year round.
8285	- North Channel Buoy 2	42-20-15.287N 083-00-19.008W				Red nun.	Maintained year round.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			DETROIT RIVER				
	DETROIT RIVER (Chart 14848)						
	Belle Isle North Channel						
	Scott Middle Ground						
	Buoys maintained from Apr. 1 to Nov. 14.						
8290	- North Channel Buoy 4	42-20-42.967N 082-59-46.227W				Red nun.	
8295	- North Channel Buoy 6	42-20-55.997N 082-59-24.296W				Red nun.	
8300	- North Channel Buoy 8	42-21-03.187N 082-59-04.345W				Red nun.	
8305	DETROIT BOAT CLUB LIGHT	42-20-29.700N 082-59-34.600W	F R	15 5		On pile.	Private aid.
8310	- South Channel Buoy 1	42-20-36.527N 082-59-39.277W				Green can.	
8315	- South Channel Buoy 3	42-20-41.867N 082-59-13.295W				Green can.	
8320	- South Channel Buoy 5	42-20-50.127N 082-58-45.734W				Green can.	
8325	- Upper Junction Buoy	42-21-00.157N 082-58-37.314W				Red and green bands; nun.	
	Belle Isle North Channel						
8330	ERMA HENDERSON MARINA WEST ENTRANCE LIGHTS (2)	42-21-07.500N 082-59-05.300W	F G	18 5		On piles.	Private aid.
8335	ERMA HENDERSON MARINA EAST LIGHTS	42-21-07.800N 082-59-04.500W	F R	18 5		On piles.	Private aid.
8340	ERMA HENDERSON MARINA LIGHTS (8) Marks cable string between pilings.	42-21-08.200N 082-59-02.500W	F R	18 5		On piles.	Private aid.
8341	PORTERFIELD RAMP LIGHT	42-21-20.600N 082-58-04.900W	F R	8 2		On pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
8342	PORTERFIELD MARINA ENTRANCE LIGHT 1	42-21-18.900N 082-58-02.500W	F G	8 2		SG on pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
8343	PORTERFIELD MARINA ENTRANCE LIGHT 2	42-21-18.800N 082-57-59.000W	F R	8 2		TR on pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
8345	Intake Pipe Buoy 1	42-21-13.776N 082-58-24.833W				Green can.	Maintained from Apr. 1 to Nov. 14.
8350	WATERWORKS INTAKE CRIB LIGHT	42-21-08.300N 082-57-59.900W	Fl W 5s	40 12		Gray stone tower on pier.	Private aid.
8355	*Detroit Edison Lighted Buoy 1A*	42-21-12.286N 082-57-28.440W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 1.
8360	DETROIT EDISON BOAT CLUB ENTRANCE LIGHT 2	42-21-18.000N 082-57-24.800W	F R			TR on post.	Maintained from Apr. 1 to Oct. 1. Private aid.
8365	DETROIT EDISON BOAT CLUB ENTRANCE LIGHT 3	42-21-19.300N 082-57-25.000W	F G			SG on post.	Maintained from Apr. 1 to Oct. 1. Private aid.
8370	WATERWORKS INTAKE LAGOON LIGHT	42-21-00.200N 082-57-16.500W	Fl R 6s	22 7		Red post on small house on concrete pier.	Private aid.
8396	Grayhaven Canal Entrance Buoy 2	42-21-19.350N 082-56-45.050W				Red nun.	Maintained May 15 to Oct 31. Private aid.
8396.1	PORT LAGOON LIGHT 1	42-21-20.700N 082-56-46.118W	F G	11 3			Private aid.
8397	PORT LAGOON LIGHT 2	42-21-20.160N 082-56-45.300W	F R	11 3			Private aid.
8398	STARBOARD LAGOON LIGHT 1	82-21-21.000N 082-56-34.200W	F G	11 3			Private aid.
8399.5	Starboard Lagoon Obstr Daybeacon	42-21-22.022N 082-56-36.720W					Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Lake St. Clair						
	Lighted buoys maintained from Mar. 28 to Dec. 21.						
8400	PECHE ISLAND RANGE FRONT LIGHT	42-21-37.556N 082-54-24.960W	F W	35 11		KRW on white skeleton tower with round conical foundation.	RACON: G (- - .) Lighted throughout 24 hours.
8405	PECHE ISLAND RANGE FRONT PASSING LIGHT	42-21-37.500N 082-54-25.000W	F W	31 9	7	On same structure as Peche Island Range Front Light.	
8410	PECHE ISLAND RANGE REAR LIGHT 3,697 feet, 227.7° from front light.	42-21-12.985N 082-55-01.392W	F W	114 35		KRW on white skeleton tower with round conical foundation.	Lighted throughout 24 hours.
8415	- LIGHT 1	42-22-01.065N 082-53-59.103W	Q G	37 11	5	SG on post.	
8420	- *Lighted Buoy 2*	42-21-54.270N 082-53-52.330W	Fl R 4s		5	Red.	AIS MMSI: 993672211
8425	- Buoy 3	42-22-27.259N 082-53-18.287W				Green can.	
8430	- Buoy 4	42-22-22.090N 082-53-11.030W				Red nun.	
8435	- Buoy 5	42-22-56.223N 082-52-35.343W				Green can.	
8440	- Buoy 6	42-22-50.681N 082-52-28.585W				Red nun.	
8442	Grosse Pointe Dumping Grounds Buoy B	42-22-12.000N 082-51-01.000W				Yellow can.	
8445	- *Lighted Buoy 7*	42-23-19.748N 082-52-00.289W	Fl G 4s		4	Green.	Replaced by can Dec 21 to Mar 28
8450	- *Lighted Buoy 8*	42-23-14.453N 082-51-53.007W	Fl R 4s		4	Red.	AIS MMSI: 993672212
8455	- Buoy 9	42-23-47.733N 082-51-18.854W				Green can.	
8460	- Buoy 10	42-23-42.320N 082-51-11.760W				Red nun.	
8465	- Buoy 11	42-24-10.446N 082-50-44.793W				Green can.	
8470	- Buoy 12	42-24-05.025N 082-50-37.636W				Red nun.	
8472	Grosse Pointe Dumping Grounds Buoy A	42-23-35.000N 082-48-52.000W				Yellow can.	
8475	- *Lighted Buoy 13*	42-24-37.940N 082-50-04.990W	Fl G 4s		4	Green.	
8480	- LIGHT 14	42-24-31.566N 082-49-57.613W	Fl R 4s	30 9	5	TR on post on concrete structure.	
8485	- Buoy 15	42-25-12.903N 082-49-12.351W				Green can.	
8490	- Buoy 16	42-25-07.131N 082-49-04.665W				Red nun.	
8495	- *Lighted Buoy 17*	42-25-50.100N 082-48-17.740W	Fl G 4s		5	Green.	
8500	- *Lighted Buoy 18*	42-25-44.220N 082-48-10.560W	Fl R 4s		6	Red.	
8505	- Buoy 19	42-26-24.652N 082-47-25.743W				Green can.	
8510	- Buoy 20	42-26-19.110N 082-47-18.550W				Red nun.	
8515	- *Lighted Buoy 21*	42-27-00.180N 082-46-33.390W	Fl G 4s		4	Green.	
8520	- *Lighted Buoy 22*	42-26-54.450N 082-46-26.130W	Fl R 4s		4	Red.	
8525	- LIGHT	42-27-55.120N 082-45-15.440W	Iso G 6s	52 16	12	White square tower on cylindrical base.	RACON: N (- .) Higher intensity beam upstream.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Lake St. Clair *Lighted buoys maintained from Mar. 28 to Dec. 21.*						
8530	- *Lighted Buoy 24*	42-27-48.060N 082-45-06.030W	Fl R 2.5s		4	Red.	
8535	ST. CLAIR FLATS CANAL RANGE FRONT LIGHT	42-33-02.595N 082-39-02.754W	F G	48 15		White daymark on pyramidal tower.	Lighted throughout 24 hours.
8540	ST. CLAIR FLATS CANAL RANGE REAR LIGHT 4,018 feet, 041.1° from front light.	42-33-32.507N 082-38-27.459W	F G	112 34		White daymark on pyramidal tower.	Lighted throughout 24 hours.
8545	- *Lighted Buoy 25*	42-29-01.720N 082-43-53.570W	Fl G 4s		4	Green.	Replaced by can from Dec 21. to Mar.28.
8550	- *Lighted Buoy 26*	42-28-56.610N 082-43-45.420W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8555	- *Lighted Buoy 27*	42-29-45.800N 082-43-01.750W	Fl G 4s		4	Green.	
8560	- *Lighted Buoy 28*	42-29-40.769N 082-42-53.601W	Fl R 4s		4	Red.	
8565	- *Lighted Buoy 29*	42-30-35.980N 082-42-02.660W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 21 to Mar. 28. AIS MMSI: 993672233
8570	- *Lighted Buoy 30*	42-30-30.728N 082-41-54.471W	Q R		4	Red	Year round lighted buoy. AIS MMSI: 993672213
8575	- Buoy 31	42-30-49.949N 082-41-45.901W				Green.	Replaced by can from Dec. 21 to Mar. 28.
8580	SQUIRREL ISLAND RANGE FRONT LIGHT (C)	42-33-12.000N 082-35-00.000W	Iso Y 2s 1s fl 1s ec.	30 9		Orange triangular daymark with black vertical stripe on white square skeleton tower.	Visible on range line only.
8585	SQUIRREL ISLAND RANGE REAR LIGHT (C) 3,506 feet, 064.3º from front light.		F Y	84 26		Orange inverted triangular daymark with black vertical stripe on white skeleton tower.	Visible in line of range.
	St. Clair Cut-Off Channel						
8590	- *Preferred Channel Lighted Buoy CO*	42-30-58.568N 082-41-22.251W	Fl (2+1)G 6s		4	Green with red band	Replaced by can from Dec. 14 to Mar. 28.
	Lake St. Clair *Lighted buoys maintained from Mar. 28 to Dec. 21.*						
8595	PIER LIGHT X32/2 (C) 190 feet outside channel limit.	42-30-54.000N 082-41-06.000W	Fl R 4s	24 7		White circular tower with red top.	
	St. Clair Cut-Off Channel						
8600.1	- *Lighted Buoy 32*	42-30-55.318N 082-41-09.665W	Fl R 2.5s		4		Replaced by nun from Dec. 21 to Mar. 28.
	Lake St. Clair *Lighted buoys maintained from Mar. 28 to Dec. 21.*						
8605	PIER LIGHT X35 (C) 190 feet outside channel limit.		Fl G 4s	33 10		White circular tower with green top.	
8610	PIER LIGHT X36 (C) 190 feet outside channel limit.		Fl R 4s	26 8		White square tower with red stripes on corners.	
8615	PIER LIGHT X39 (C)		Fl G 4s	29 9		White square tower with green top.	
8620	PIER LIGHT X40 (C) 190 feet outside channel limit.		Fl R 4s	26 8		White square tower with red stripes on corners.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Lake St. Clair						
	Lighted buoys maintained from Mar. 28 to Dec. 21.						
8625	PIER LIGHT X43 (C)	42-32-24.000N 082-37-30.000W	Fl G 4s	24 7		White square tower with green top.	
8630	PIER LIGHT X44 (C) 190 feet outside channel limit.	42-32-12.000N 082-37-24.000W	Fl R 4s	24 7		White square tower with red stripes on corners.	
8635	PIER LIGHT X47 (C)	42-32-48.000N 082-36-18.000W	Fl G 4s	29 9		White square tower with green top.	
8640	PIER LIGHT X48 (C) 190 feet outside channel limit.	42-32-42.000N 082-36-12.000W	Fl R 4s	24 7		White square tower with red stripes on corners.	
	St. Clair Cut-Off Channel						
8645	HARSENS ISLAND LIGHT 11	42-32-59.000N 082-35-55.000W	Fl G 4s	26 8	4	SG on white cylindrical tower.	
	Lake St. Clair						
	Lighted buoys maintained from Mar. 28 to Dec. 21.						
8650	*Lighted Buoy X50 (C)*	42-32-54.000N 082-35-30.000W	Fl R 4s			Red.	
	St. Clair Cut-Off Channel						
8655	- *Lighted Buoy 13*	42-33-05.126N 082-35-27.163W	Fl G 2.5s		4	Green.	Maintained from Mar. 28 to Dec. 21.
	Lake St. Clair						
	Lighted buoys maintained from Mar. 28 to Dec. 21.						
8660	*Lighted Buoy A14 (C)*	42-33-06.000N 082-35-12.000W	Fl R 4s			Red.	Seasonal.
	Grosse Point						
8665	- MUNICIPAL PIER NORTHEAST LIGHT	42-22-50.000N 082-54-13.000W	F Y	18 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8666	- MUNICIPLE PIER SOUTHWEST LIGHT	42-22-49.000N 082-54-16.000W	F Y	18 5		On Post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8667	- *Lighted Entrance Buoy 1*	42-22-44.000N 082-54-13.500W	Fl G 4s			Green.	Maintained from Apr. 15 to Nov. 1. Private aid.
8668	- *Lighted Entrance Buoy 2*	42-22-44.500N 082-54-13.000W	Fl R 4s			Red.	Maintained from Apr. 15 to Nov. 1. Private aid.
8669	- *Lighted Channel Buoy 3*	42-22-46.500N 082-54-15.000W	Fl G 4s			Green.	Maintained from Apr. 15 to Nov. 1. Private aid.
8670	- *Lighted Channel Buoy 4*	42-22-47.000N 082-54-14.000W	Fl R 4s			Red.	Maintained from Apr. 15 to Nov. 1. Private aid.
8675	- MUNICIPAL PIER SOUTHWEST ENTRANCE LIGHT 5	42-22-50.000N 082-54-16.500W	Fl G 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8680	- MUNICIPAL PIER SOUTHWEST ENTRANCE LIGHT 6	42-22-49.750N 082-54-16.500W	Fl R 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8685	- MUNICIPAL PIER NORTHWEST ENTRANCE LIGHT 7	42-22-53.000N 082-54-19.000W	Fl G 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8690	- MUNICIPAL PIER NORTHWEST ENTRANCE LIGHT 8	42-22-52.500N 082-54-15.000W	Fl R 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8695	- CLUB HARBOR ENTRANCE WEST LIGHT	42-22-57.500N 082-53-49.000W	F G	10 3		On post.	Private aid.
8700	- CLUB HARBOR ENTRANCE EAST LIGHT	42-22-57.500N 082-53-48.000W	F R	10 3		On post.	Private aid.
8705	- CLUB DOCK SOUTH LIGHT	42-23-00.000N 082-53-46.000W	F G	15 5		On post.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Lake St. Clair						
	Grosse Point						
8710	- CLUB DOCK NORTH LIGHT	42-22-58.500N 082-53-42.000W	F G	15 5		On post.	Private aid.
	Crescent Sail Yacht Club						
8725	- WEST LIGHT	42-24-04.490N 082-53-06.000W	F G	10 3		SG on pile.	Private aid.
8730	- EAST LIGHT	42-24-04.620N 082-53-05.310W	F R	9 3		TR on pile.	Private aid.
8735	- BREAKWATER SOUTH LIGHT	42-24-06.600N 082-53-02.700W	Q W	25 8		NW on white pile cluster.	Visible 180° through 020°. Private aid.
8740	- BREAKWATER NORTH LIGHT	42-24-07.200N 082-53-02.000W	Q W	25 8		NW on white pile cluster.	Visible 195° through 030°. Private aid.
	Grosse Point						
8745	MUNICIPAL PIER SOUTH BASIN LIGHT	42-24-17.600N 082-53-00.700W	F R	10 3		TR on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
8747	- Farms Buoy 1	42-24-15.784N 082-52-58.791W				Green can.	Maintained from MAY 1. to NOV. 1 Private aid.
8748	- Farms Buoy 2	42-24-20.992N 082-52-58.544W				Red nun.	Maintained from MAY 1. to NOV 1. Private aid.
8749	- Farms Buoy 3	42-24-17.553N 082-53-01.728W				Green can.	Maintained from MAY 1. to NOV. 1 Private aid.
8750	- FARMS LIGHT 4	42-24-18.245N 082-53-01.214W	F R	15 5		TR on post.	Maintained from May. 1 to Nov. 1. Private aid.
8752	- FARMS LIGHT 5	42-24-17.580N 082-53-00.068W	F G	6 2		SG on post.	Maintained from May. 1 to Nov. 1. Private aid.
8755	- YACHT CLUB LIGHT	42-26-06.000N 082-52-21.000W	Fl W 2.5s	65 20		Square skeleton tower with building attached.	Private aid.
8756	- E YACHT CLUB NORTH BREAKWATER LIGHT	42-26-08.110N 082-52-07.280W	Fl Y 4s				Private aid.
8757	- E YACHT CLUB CENTER BREAKWATER LIGHT	42-26-05.730N 082-52-07.630W	Fl Y 4s				Private aid.
8758	- E YACHT CLUB SOUTH BREAKWATER LIGHT	42-26-03.590N 082-52-09.090W	Fl Y 4s				Private aid.
8760	- YACHT CLUB OUTER BREAKWATER LIGHT B	42-26-00.000N 082-52-13.000W	F R	8 2			Private aid.
8765	- YACHT CLUB OUTER BREAKWATER LIGHT C	42-26-00.000N 082-52-16.000W	F R	8 2		On pile.	Private aid.
8770	- YACHT CLUB OUTER BREAKWATER LIGHT D	42-26-00.000N 082-52-17.000W	F G	8 2			Private aid.
8775	- YACHT CLUB OUTER BREAKWATER LIGHT E	42-26-00.000N 082-52-20.000W	F R	8 2		On pile.	Private aid.
8780	- YACHT CLUB OUTER BREAKWATER LIGHT F	42-26-02.000N 082-52-25.000W	F R	8 2			Private aid.
	Milk River Channel *Buoys maintained from May 1 to Nov. 1*						
8785	- DRAIN LIGHT 1	42-27-36.000N 082-52-21.000W	Fl W 4s	8 2		Black.	Maintained from Apr. 20 to Nov. 20. Private aid.
8790	- *Lighted Buoy 1*	42-27-36.500N 082-52-17.500W	Q G			Green.	Private aid.
8795	- *Lighted Buoy 2*	42-27-37.100N 082-52-17.000W	Q R			Red.	Private aid.
8800	- Buoy 3	42-27-36.800N 082-52-21.200W				Green can.	Private aid.
8805	- Buoy 4	42-27-37.700N 082-52-21.000W				Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Lake St. Clair						
	Milk River Channel						
	Buoys maintained from May 1 to Nov. 1						
8810	- Buoy 5	42-27-36.800N 082-52-25.000W				Green can.	Private aid.
8815	- Buoy 6	42-27-38.000N 082-52-25.500W				Red nun.	Private aid.
8820	- Buoy 7	42-27-37.000N 082-52-29.500W				Green can.	Private aid.
8825	- Buoy 8	42-27-38.000N 082-52-29.200W				Red nun.	Private aid.
	LAKE ST. CLAIR (Charts 14850, 14853)						
8850	*Gaukler Shoal Lighted Buoy 1*	42-27-41.785N 082-51-39.208W	Fl G 4s		3	Green.	Maintained from Apr. 21 to Nov. 1.
8855	*Gaukler Shoal Junction Lighted Buoy*	42-28-32.021N 082-51-30.314W	Fl (2+1)G 6s		3	Green and red bands.	Maintained from Apr. 21 to Nov. 1.
8875	MILLER MEMORIAL LIGHT	42-27-49.500N 082-52-45.000W	Al WR 10s 0.2s W fl 4.8s ec. 0.2s R fl 4.8s ec.	270 82			Maintained from Apr. 15 to Dec. 1. Private aid.
8880	St. Clair Shores Breakwater Daybeacon 1	42-28-21.761N 082-52-42.781W				SG on pile.	
8885	ST. CLAIR SHORES BREAKWATER LIGHT 2	42-28-22.265N 082-52-42.607W	Fl R 4s	16 5	5	TR on pile.	
8890	MARTIN DRAIN OUTER LIGHT	42-28-57.500N 082-52-47.800W	Fl W 2.5s	12 4		NW on post.	Maintained from Mar. 15 to Dec. 15. Private aid.
8891	*Masonic Country Club Lighted Buoy*	42-31-28.440N 082-52-04.980W	Fl Y 4s				Maintained from Apr. 15 to November 15. Private aid.
	St. Clair Municipal Park Entrance						
	Buoys maintained from Apr. 1 to Nov. 1.						
8905	- Buoy 1	42-29-44.000N 082-52-41.000W				Green can.	Private aid.
8910	- Buoy 2	42-29-46.000N 082-52-42.000W				Red nun.	Private aid.
8915	- Buoy 3	42-29-44.000N 082-52-48.000W				Green can.	Private aid.
8920	- Buoy 4	42-29-46.000N 082-52-49.000W				Red nun.	Private aid.
8921	Point Rosa West Channel Entrance Buoy 1	43-34-06.870N 082-49-05.290W				Green can.	Private aid.
8921.1	Point Rosa West Channel Entrance Buoy 2	42-34-06.900N 082-49-04.490W				Red nun.	Private aid.
8921.2	Point Rosa West Channel Entrance Buoy 3	42-34-08.110N 082-49-05.230W				Green can.	Private aid.
8921.3	Point Rosa West Channel Entrance Buoy 4	42-34-08.130N 082-49-04.430W				Red nun.	Private aid.
8921.4	Point Rosa West Channel Entrance Buoy 5	42-34-09.340N 082-49-05.160W				Green can.	Private aid.
8921.5	Point Rosa West Channel Entrance Buoy 6	42-34-09.360N 082-49-04.370W				Red nun.	Private aid.
8921.6	Point Rosa West Channel Entrance Buoy 7	42-34-10.580N 082-49-05.100W				Green can.	Private aid.
8921.7	Point Rosa West Channel Entrance Buoy 8	42-34-10.600N 082-49-04.300W				Red nun.	Private aid.
8922	Point Rosa East Channel Entrance Buoy 1	42-34-06.470N 082-48-48.790W				Green can.	Private aid.
8922.1	Point Rosa East Channel Entrance Buoy 2	42-34-06.490N 082-48-47.990W				Red nun.	Private aid.
8922.2	Point Rosa East Channel Entrance Buoy 3	42-34-07.700N 082-48-48.730W				Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	St. Clair Municipal Park Entrance *Buoys maintained from Apr. 1 to Nov. 1.*						
8922.3	Point Rosa East Channel Entrance Buoy 4	42-34-07.720N 082-48-47.930W				Red nun.	Private aid.
8922.4	Point Rosa East Channel Entrance Buoy 5	42-34-08.930N 082-48-48.660W				Green can.	Private aid.
8922.5	Point Rosa East Channel Entrance Buoy 6	42-34-08.950N 082-48-47.880W				Red nun.	Private aid.
8922.6	Point Rosa East Channel Entrance Buoy 7	42-34-10.170N 082-48-48.600W				Green can.	Private aid.
8922.7	Point Rosa East Channel Entrance Buoy 8	42-34-10.190N 082-48-47.800W				Red nun.	Private aid.
8925	*Point Huron Lighted Buoy 1PH*	42-33-12.306N 082-44-51.534W	Fl G 2.5s		3	Green.	Maintained from Apr. 21 to Nov. 1.
8926	*Harbor Club South Lighted Buoy 2*	42-33-28.800N 082-50-37.300W	Q R			Red.	Maintained from 1 Apr. to 15 Nov. Private aid.
8926.1	Harbor Club South Unlighted Buoy 4	42-33-31.800N 082-50-37.700W				Red nun.	Maintained from 1 Apr. to 15 Nov. Private aid.
8926.2	*Harbor Club South Lighted Buoy 6*	42-33-33.700N 082-50-38.000W	Fl R 4s			Red.	Maintained from 1 Apr. to 15 Nov. Private aid.
	Black Creek						
8930	- RANGE FRONT LIGHT	42-34-03.200N 087-47-05.000W	Fl G 4s	20 6		White diamond daymark.	Maintained from Apr. 1 to Nov. 1. Private aid.
8935	- RANGE REAR LIGHT 336 feet, 297.3° from front light.	42-34-06.200N 082-47-10.300W	F G	40 12		White diamond daymark.	Maintained from Apr. 1 to Nov. 1. Private aid.
8940	- *Lighted Buoy 1*	42-33-53.800N 082-46-43.600W	Fl G 4s			Green.	Maintained from Apr. 1 to Nov. 1. Private aid.
8945	- *Lighted Buoy 2*	42-33-55.700N 082-46-42.500W	Fl R 4s			Red.	Maintained from Apr. 1 to Nov. 1. Private aid.
8950	- Buoy 3	42-33-56.000N 082-46-48.300W				Green can.	Maintained from Apr. 1 to Nov. 1. Private aid.
8955	- Buoy 4	42-33-57.500N 082-46-47.000W				Red nun.	Maintained from Apr. 1 to Nov. 1. Private aid.
8960	- Buoy 5	42-33-57.500N 082-46-53.000W				Green can.	Maintained from Apr. 1 to Nov. 1. Private aid.
8965	- Buoy 6	42-33-59.500N 082-46-52.000W				Red nun.	Maintained from Apr. 1 to Nov. 1. Private aid.
8970	HURON POINTE YACHT CLUB BREAKWALL LIGHT	42-35-36.000N 082-46-51.000W	Q R	15 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
	Harbor Club North Entrance *Buoys maintained from Apr. 1 to Nov. 30.*						
8971	- *Lighted Buoy 1*	42-34-05.000N 082-49-22.500W	Fl G 2s			Green.	Private aid.
8971.5	- *Lighted Buoy 2*	42-34-05.000N 082-49-20.000W	Fl R 2s			Red.	Private aid.
8972	- Buoy 3	42-34-07.000N 082-49-22.500W				Green can.	Private aid.
8972.5	- Buoy 4	42-34-07.000N 082-49-20.000W				Red nun.	Private aid.
8973	- Buoy 5	42-34-09.800N 082-49-22.500W				Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Harbor Club North Entrance						
	Buoys maintained from Apr. 1 to Nov. 30.						
8973.5	- Buoy 6	42-34-09.800N 082-49-20.000W				Red nun.	Private aid.
	Clinton River						
	Buoys maintained from Apr. 21 to Nov. 1.						
8975	- *Entrance Lighted Buoy CR*	42-35-38.663N 082-44-43.420W	Mo (A) W		3	Red and white stripes.	
8980	- *Entrance Lighted Buoy 1*	42-35-36.593N 082-45-44.202W	Fl G 4s		3	Green.	
8985	- *Entrance Lighted Buoy 2*	42-35-39.703N 082-45-43.683W	Fl R 4s		4	Red.	
8990	- Entrance Buoy 3	42-35-37.279N 082-45-52.944W				Green can.	
8995	- Entrance Buoy 4	42-35-39.547N 082-45-52.398W				Red nun.	
9000	- Entrance Buoy 5	42-35-38.324N 082-46-01.593W				Green can.	
9005	- Entrance Buoy 6	42-35-39.931N 082-46-00.810W				Red nun.	
9015	- NORTH BREAKWATER LIGHT	42-35-41.600N 082-46-12.500W	Fl R 2.5s	26 8	4	TR on post.	
9020	- SOUTH BREAKWATER LIGHT	42-35-38.200N 082-46-10.200W	Fl G 4s	35 11	5	SG on green and white cylindrical tower.	
9030	MACOMB COUNTY SHERIFF LOOKOUT TOWER LIGHT	42-35-34.200N 082-46-21.000W	Fl Y 4s	46 14		Lookout tower.	Private aid.
9035	- INNER LIGHT	42-35-42.561N 082-46-32.540W	Fl R 4s	25 8	5	TR on post.	
	Island Cove Marina						
9038	- *Entrance Lighted Buoy 1*	42-36-07.440N 082-46-59.760W	Fl G 4s			Green.	Private aid.
9039	- *Entrance Lighted Buoy 2*	42-36-09.360N 082-47-01.080W	Fl R 4s			Red.	Private aid.
9040	- *Entrance Lighted Buoy 3*	42-36-04.260N 082-47-06.720W	Fl G 4s			Green.	Private aid.
9041	- *Entrance Lighted Buoy 4*	42-36-05.280N 082-47-07.440W	Fl R 4s			Red.	Private aid.
9042	- *Entrance Lighted Buoy 5*	42-36-00.480N 082-47-15.120W	Fl G 4s			Green.	Private aid.
9043	- *Entrance Lighted Buoy 6*	42-36-00.540N 082-47-17.280W	Fl R 4s			Red.	Private aid.
9044	- *Entrance Lighted Buoy 7*	42-35-57.960N 082-47-17.040W	Fl G 4s			Green.	Private aid.
9045	- *Entrance Lighted Buoy 8*	42-35-57.900N 082-47-18.600W	Fl R 4s			Red.	Private aid.
9046	- *Entrance Lighted Buoy 9*	42-35-55.000N 082-47-17.000W	Fl G 4s			Green	Private aid.
9047	- *Entrance Lighted Buoy 10*	42-35-55.000N 082-47-19.000W	Fl R 4s			Red.	Private aid.
9048	- *Entrance Lighted Buoy 11*	42-35-51.000N 082-47-18.000W	Fl G 4s			Green.	Private aid.
9049	- *Entrance Lighted Buoy 12*	42-35-51.000N 082-47-19.000W	Fl R 4s			Red.	Private aid.
	Belle Maer Marina						
	Aids to navigation maintained from May 1 to Nov. 1.						
9070	- RANGE FRONT LIGHT	43-36-16.500N 082-47-38.800W	F G	15 5		White diamond shaped daymark with red and black in center on post.	Private aid.
9075	- RANGE REAR LIGHT 450 feet, 203.5° from front light.	42-36-12.300N 082-47-42.400W	F G	25 8		White diamond shaped daymark with red and black in center on post.	Private aid.
9080	- *Lighted Buoy 1*	42-36-32.500N 082-47-28.800W	Fl G 4s			Green.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Belle Maer Marina						
	Aids to navigation maintained from May 1 to Nov. 1.						
9085	- *Lighted Buoy 2*	42-36-32.500N 082-47-30.500W	Fl R 4s			Red.	Private aid.
9090	- Buoy 3	42-36-25.800N 082-47-32.500W				Green can.	Private aid.
9095	- Buoy 4	42-36-25.800N 082-47-34.000W				Red nun.	Private aid.
	Macray East Harbor Entrance						
	Buoys maintained from Apr. 15 to Nov. 15.						
9100	- *Lighted Buoy 1*	42-36-32.500N 082-47-52.500W	Fl G 2.5s			Green.	Private aid.
9105	- Buoy 2	42-36-32.900N 082-47-55.000W				Red nun.	Private aid.
9110	- Buoy 3	42-36-27.500N 082-47-55.500W				Green can.	Private aid.
9115	- Buoy 4	42-36-28.300N 082-47-56.500W				Red nun.	Private aid.
	Macray West Harbor Entrance						
	Buoys maintained from Apr. 15 to Nov. 15.						
9120	- *Lighted Buoy 1*	42-36-39.000N 082-48-09.500W				Green.	Private aid.
9125	- Buoy 2	42-36-40.000N 082-48-12.300W				Red nun.	Private aid.
9130	- Buoy 3	42-36-35.000N 082-48-12.500W				Green can.	Private aid.
9135	- Buoy 4	42-36-36.000N 082-48-14.200W				Red nun.	Private aid.
	Selfridge Field						
9140	- SOUTHEAST BREAKWATER LIGHT	42-36-36.000N 082-48-48.000W	Fl Y 6s	11 3	5	On post.	
9150	- NORTHWEST BREAKWATER LIGHT	42-36-42.000N 082-48-54.000W	Fl Y 6s	11 3	5	On post.	
	Selfridge Launch Facility						
9162	SELFRIDGE MARINA SOUTH BREAKWALL LIGHT 1	42-36-57.900N 082-49-06.000W	Fl G 4s	20 6	5	SG on pile.	
9163	SELFRIDGE MARINA NORTH BREAKWATER LIGHT 2	42-36-59.000N 082-49-06.000W	Fl R 4s	20 6	4	TR on pile.	
9165	- Buoy 1	42-37-04.800N 082-49-00.600W				Green can.	Private aid.
9170	- Buoy 2	42-37-48.000N 082-49-06.000W				Red cylinders.	Private aid.
9175	- Buoy 3	42-37-35.500N 082-49-05.000W				Green can.	Private aid.
9180	- Buoy 4	42-37-48.000N 082-49-06.000W				Red cylinders.	Private aid.
9185	- Buoy 5	42-37-35.500N 082-49-07.000W				Green can.	Private aid.
9190	- Buoy 6	42-37-48.000N 082-49-06.000W				Red cylinders.	Private aid.
9195	- ENTRANCE LIGHT 2	42-37-47.000N 082-49-00.000W	Fl R 4s	28 9		On breakwall.	Maintained from May 1 to Nov. 1. Private aid.
9200	SALT RIVER RANGE FRONT LIGHT	42-39-16.000N 082-47-05.000W	F G	16 5		White daymark with orange diamond on pile.	Maintained from Jun. 15 to Nov. 15. Private aid.
9205	SALT RIVER RANGE REAR LIGHT 295 feet, 018° from front light.	42-39-18.300N 082-47-04.400W	F G	26 8		White daymark with orange diamond on pile.	Maintained from Jun. 15 to Nov. 15. Private aid.
	Bouvier Bridge Marina Channel						
	Channel marked by 18 lighted and unlighted buoys maintained from Apr. 15 to Nov. 1.						
9259	- *Lighted Buoy 1*	42-40-13.277N 082-38-03.190W	Fl G 2.5s			Green.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	LAKE ST. CLAIR (Charts 14850, 14853)						
	Bouvier Bridge Marina Channel						
	Channel marked by 18 lighted and unlighted buoys maintained from Apr. 15 to Nov. 1.						
9260	- *Lighted Buoy 2*	42-40-11.734N 082-38-03.873W	Fl R 2.5s			Red.	Private aid.
9265	*Fair Haven Entrance Lighted Buoy 1FH*	42-40-03.319N 082-38-29.587W	Fl G 4s		3	Green.	Maintained from Apr. 21 to Nov. 1.
9295	CHATEAU MARINA LIGHT 1	42-41-13.000N 082-42-19.000W	F G	8 2		SG on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
9300	CHATEAU MARINA LIGHT 2	42-41-12.100N 082-42-19.500W	F R	8 2		TR on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
	ST. CLAIR RIVER (Chart 14852)						
	North Channel Entrance						
	Position of unlighted buoys frequently shifted with changing conditions. Buoys maintained from Apr. 21 to Nov. 1.						
9305	- *Lighted Buoy 2NC*	42-37-32.500N 082-43-03.800W	Fl R 4s		3	Red.	
9310	- Buoy 3	42-37-50.084N 082-42-49.055W				Green can.	
9320	- Buoy 5	42-38-04.500N 082-42-24.800W				Green can.	
9325	- Buoy 6	42-38-03.077N 082-42-20.293W				Red nun.	
9327	- Buoy 6A	42-38-14.785N 082-41-55.968W				Red nun.	
9330	- Buoy 7	42-38-21.760N 082-41-52.591W				Green can.	
9335	- *Channel Lighted Buoy 8*	42-38-20.281N 082-41-51.024W	Fl R 2.5s		4	Red nun.	
9340	- Buoy 9	42-38-28.099N 082-41-47.519W				Green can.	
9345	- Buoy 10	42-38-26.727N 082-41-45.594W				Red nun.	
9347	- *Channel Lighted Buoy 11*	42-38-33.366N 082-41-40.260W	Fl G 2.5s		4	Green can.	
9350	- *Channel Lighted Buoy 12*	42-38-33.435N 082-41-31.992W	Q R		4	Red nun.	
9355	- *Lighted Buoy 13*	42-38-37.191N 082-41-27.110W	Fl G 4s		3	Green.	
	ST. CLAIR RIVER (Chart 14852)						
	Buoys maintained from Apr. 21 to Nov. 1.						
9360	North Channel Buoy 14	42-38-34.005N 082-41-08.347W				Red nun.	
9365	North Channel Buoy 15	42-38-39.420N 082-40-57.489W				Green can.	
9370	*North Channel Entrance Channel Lighted Buoy 17*	42-38-42.092N 082-40-25.167W	Fl G 4s		4	Green can.	
9375	North Channel Buoy 18	42-38-33.308N 082-40-44.647W				Red nun.	
9380	North Channel Buoy 19	42-38-39.533N 082-40-04.650W				Green can.	
9385	*North Channel Lighted Buoy 20*	42-38-33.851N 082-40-09.302W	Fl R 4s		3	Red.	
9387	North Channel Buoy 22	42-38-26.800N 082-39-55.800W				Red nun.	
9390	BELVIDERE BOAT CLUB LIGHT	42-38-01.200N 082-39-29.000W	F R	16 5		Small house with red and white stripes.	Maintained from May 15 to Nov. 1. Private aid.
9395	NORTH CHANNEL YACHT CLUB LIGHT 1	42-37-40.000N 082-38-52.300W	F G	7 2		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
9400	NORTH CHANNEL YACHT CLUB LIGHT 2	42-37-39.800N 082-38-53.800W	F R	7 2		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	ST. CLAIR RIVER (Chart 14852)						
	Sassy Marine						
	Aids maintained from Apr. 1 to Nov. 1.						
9405	- WEST ENTRANCE LIGHT 1	42-37-20.000N 082-37-09.000W	F G	6 2		On pile.	Private aid.
9410	- WEST ENTRANCE LIGHT 2	42-37-21.000N 082-37-09.000W	F R	8 2		On pile.	Private aid.
9415	- EAST ENTRANCE LIGHT 1	42-37-18.000N 082-37-04.000W	F G	8 2		On pile.	Private aid.
9420	- EAST ENTRANCE LIGHT 2	42-37-16.000N 082-37-04.000W	F R	7 2		On pile.	Private aid.
9425	Algonac Harbor Buoy 1	42-36-36.000N 082-32-54.000W				Green spar.	Private aid.
9430	Algonac Harbor Buoy 2	42-36-35.000N 082-32-53.100W				Red spar.	Private aid.
	Middle Channel Entrance						
	Position of unlighted buoys frequently shifted with changing conditions. Buoys maintained from Apr. 21 to Nov. 1.						
9435	- *Lighted Buoy 1MC*	42-33-45.795N 082-43-57.613W	Fl G 4s		3	Green.	
9440	- *Lighted Buoy 2*	42-33-50.270N 082-43-20.216W	Fl R 4s		3	Red.	
9445	- Buoy 3	42-33-53.795N 082-43-18.142W				Green can.	
9450	- Buoy 4	42-33-36.119N 082-43-06.287W				Red nun.	
9455	- Buoy 5	42-33-39.037N 082-43-05.166W				Green can.	
	ST. CLAIR RIVER (Chart 14852)						
	Buoys maintained from Apr. 21 to Nov. 1.						
9460	*Middle Channel Lighted Buoy 6*	42-33-21.456N 082-42-47.504W	Fl R 2.5s		3	Red.	
9465	Middle Channel Buoy 7	42-33-27.615N 082-42-46.896W				Green can.	
9470	Middle Channel Buoy 8	42-33-18.921N 082-42-20.980W				Red nun.	
9475	Middle Channel Buoy 9	42-33-23.115N 082-42-20.587W				Green can.	
9480	Middle Channel Buoy 10	42-33-17.835N 082-41-54.948W				Red nun.	
9485	Middle Channel Buoy 11	42-33-23.021N 082-41-54.963W				Green can.	
9490	*Middle Channel Lighted Buoy 12*	42-33-20.145N 082-41-29.877W	Fl R 4s		3	Red.	
	Clinton River Boat Club						
	Aids maintained from May 1 to Nov. 1.						
9495	- South Entrance Buoy 4	42-33-33.800N 082-40-59.500W				Red nun.	Private aid.
9500	- South Entrance Buoy 3	42-33-35.000N 082-40-56.000W				Green can.	Private aid.
9505	- Entrance Buoy 2	42-33-48.000N 082-40-44.000W				Red nun.	Private aid.
9510	- Entrance Buoy 1	42-33-49.000N 082-40-42.500W				Green can.	Private aid.
	ST. CLAIR RIVER (Chart 14852)						
	Buoys maintained from Apr. 21 to Nov. 1.						
9515	Middle Channel Buoy 13	42-34-28.124N 082-40-04.601W				Green can.	
9520	Middle Channel Buoy 14	42-35-05.730N 082-38-49.300W				Red nun.	
9525	*Dickinson Island Junction Lighted Buoy*	42-37-03.923N 082-35-01.372W	Fl (2+1)R 6s		4	Red and green bands.	
	St. Clair Flats Old Channel						
	Position of buoys frequently shifted with changing conditions. Buoys maintained from Apr. 21 to Nov. 1.						
9530	- *Lighted Buoy 2OC*	42-31-36.127N 082-42-41.875W	Fl R 4s		3	Red.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE ST. CLAIR				
	ST. CLAIR RIVER (Chart 14852)						
	St. Clair Flats Old Channel						
	Position of buoys frequently shifted with changing conditions. Buoys maintained from Apr. 21 to Nov. 1.						
9535	- Buoy 3	42-31-45.817N 082-42-39.876W				Green can.	
9540	- Buoy 4	42-31-58.927N 082-42-07.675W				Red nun.	
9545	- Buoy 6	42-32-10.927N 082-41-40.174W				Red nun.	
9550	- LIGHT	42-32-16.370N 082-41-35.830W	Fl W 4s	28 9	6	Yellow tower on crib.	
9560	- Buoy 8	42-32-12.287N 082-41-27.284W				Red nun.	
9565	- Buoy 10	42-32-11.254N 082-41-17.385W				Red nun.	
	St. Clair Flats Canal						
9570	- Buoy 1	42-31-11.476N 082-41-18.738W				Green can.	
9575	ST CLAIR FLATS DANGER LIGHT	42-31-06.681N 082-41-12.020W	Fl (2)W 5s	28 9	8	NW on post marking submerged jetty worded DANGER ROCKS.	
9580	- Buoy 5	42-31-37.788N 082-40-48.857W				Green can.	
9585	- *Lighted Buoy 4*	42-31-17.045N 082-41-03.466W	Fl R 2.5s		4	Red.	Maintained from Apr. 7 to Dec. 14.
9590	- *Lighted Buoy 7*	42-32-05.107N 082-40-14.451W	Fl G 4s		4	Green.	Maintained from Apr. 7 to Dec. 14.
9595	OLD CLUB BREAKWATER LOWER LIGHT	42-32-21.000N 082-39-59.500W	F W	10 3		On pile cluster.	Private aid.
9600	OLD CLUB BREAKWATER UPPER LIGHT	42-32-28.100N 082-39-54.000W	F W	10 3		On pile cluster.	Private aid.
9605	MAYBURY HIGHWAY LIGHT 10 (C)	42-33-18.000N 082-38-18.000W	Fl R 4s	24 7		White square tower with red top.	
	Riverside Store						
	The following buoys are maintained from May 1 to Nov. 1.						
9610	- Buoy 1	42-33-28.500N 082-37-27.000W				Green barrel.	Private aid.
9615	- Buoy 2	42-33-28.500N 082-37-25.700W				Red barrel.	Private aid.
9620	- Buoy 3	42-33-30.000N 082-37-27.000W				Green barrel.	Private aid.
9625	- Buoy 4	42-33-30.000N 082-37-25.800W				Red barrel.	Private aid.
	ST. CLAIR RIVER (Chart 14852)						
	Buoys maintained from Apr. 21 to Nov. 1.						
9630	ST. CLAIR FLATS LIGHT 13	42-33-28.200N 082-37-21.900W	F G	24 7	6	SG on post.	
9635	Schneider Marina Buoy 1	42-33-20.600N 082-36-59.600W				Green can.	Maintained from May 15 to Nov. 1. Private aid.
9640	Schneider Marina Buoy 2	42-33-20.000N 082-36-58.500W				Red barrel.	Maintained from May 15 to Nov. 1. Private aid.
9645	SOUTHEAST BEND LIGHT 16 (C)		Fl R 4s	23 7		White square tower with red top.	
9650	HARSENS ISLAND LIGHT 17	42-33-01.759N 082-36-28.979W	Fl G 4s	27 8	4	SG on pile.	
			ST. CLAIR RIVER				
	ST. CLAIR RIVER (Chart 14852)						
9655	HARSENS ISLAND RANGE FRONT LIGHT	42-34-20.622N 082-34-32.727W	F G	27 8		White cylindrical tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. CLAIR RIVER				
	ST. CLAIR RIVER (Chart 14852)						
9660	HARSENS ISLAND RANGE REAR LIGHT 524 feet, 023.5° from front light.	42-34-25.407N 082-34-29.944W	F G	38 12		White cylindrical tower.	Light visible 360°. Higher intensity on range line.
9665	*South Channel Lighted Buoy 15*	42-33-22.976N 082-35-09.313W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
9670	*South Channel Lighted Buoy 16*	42-33-20.224N 082-35-01.965W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9675	*South Channel Lighted Buoy 17*	42-33-54.335N 082-34-55.063W	Fl G 4s		4	Green.	
	South Channel						
9680	LIGHT A20 (C)	42-33-48.000N 082-34-48.000W	Q R	33 10		White square tower with red stripes on corners.	
9685	*Lighted Buoy A22 (C)*	42-34-06.500N 082-34-29.200W	Fl R 4s			Red.	Seasonal.
	ST. CLAIR RIVER (Chart 14852)						
9690	GRANDE POINTE LIGHT 23	42-35-07.112N 082-33-23.546W	Fl G 6s	28 9	7	SG on dolphin.	
	South Channel						
9695	*Lighted Buoy A24 (C)*		Fl R 4s			Red.	Seasonal.
9700	ST. CLAIR RIVER LIGHT A26 (C)	42-35-30.000N 082-32-42.000W	Q R	39 12		White circular tower with red top.	
	ST. CLAIR RIVER (Chart 14852)						
9705	*Grande Pointe Lighted Buoy 27*	42-35-42.594N 082-32-43.503W	Fl G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
9710	*Russell Island Lighted Buoy 29*	42-36-20.324N 082-31-41.563W	Fl G 4s		4	Green.	Year round lighted buoy.
	South Channel						
9715	*Walpole Island Lighted Buoy A30 (C)*	42-36-12.000N 082-31-30.000W	Fl R 4s			Red.	Seasonal.
9720	**Walpole Island Light (C)**	42-36-18.000N 082-31-24.000W	F R	30 9	10	White circular tower with red top.	
	ST. CLAIR RIVER (Chart 14852)						
9725	RUSSELL ISLAND LIGHT	42-36-20.788N 082-31-45.229W	F G .	33 10		SG on post.	360 Degree F G
	South Channel						
9730	**Walpole Island Lower Light A32 (C)**	42-36-42.000N 082-31-06.000W	Iso R 4s	18 5	12	White square tower with red top.	
	ST. CLAIR RIVER (Chart 14852)						
9735	RUSSELL ISLAND LIGHT 33	42-36-48.673N 082-31-17.726W	Fl G 2.5s	26 8	7	SG on post.	
	South Channel						
9740	WALPOLE ISLAND FERRY BREAKWATER LIGHT (C)	42-36-54.000N 082-30-54.000W	Fl R 4s	11 3		On pile dolphin.	
	ST. CLAIR RIVER (Chart 14852)						
9745	*Russell Island Shoal Lighted Buoy RI*	42-37-20.353N 082-31-03.364W	Fl (2+1)G 6s		4	Green and red bands.	Replaced by can from Dec. 21 to Apr. 1. AIS MMSI: 993672214
	South Channel						
9750	WALPOLE ISLAND UPPER LIGHT A34 (C)	42-37-18.000N 082-30-42.000W	Fl R 4s	23 7		White square tower with red top.	
	St. Clair River						
9755	*Chenal Ecarte Shoal Lighted Buoy A36 (C)*	42-38-12.800N 082-30-35.400W	Fl R 4s			Red.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. CLAIR RIVER				
	ST. CLAIR RIVER (Chart 14852)						
	St. Clair River						
9760	CHENAL ECARTE RANGE FRONT LIGHT (C)	42-38-12.000N 082-30-06.000W	F R	17 5		Orange triangular daymark with black stripe on circular tower.	Visible on range line only. Seasonal.
9765	CHENAL ECARTE RANGE REAR LIGHT (C) 200 feet, 138.3º from front light.		F R	37 11		Orange triangular daymark with black stripe on circular tower.	Visible on range line only. Seasonal.
9770	WILLOW POINT LIGHT	42-38-38.524N 082-30-45.743W	F G	31 9	8	SG on post.	
9775	*Roberts Landing Lighted Buoy 37*	42-39-47.171N 082-30-48.227W	Fl G 4s		4	Green.	Maintained from Apr. 1 to Dec. 21.
9780	*Fawn Island Lighted Buoy 38* Marks south side of shoal.	42-40-55.921N 082-30-11.671W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1. AIS MMSI: 993672234
	Marine City						
9785	- SALT DOCK LIGHT	42-41-16.734N 082-30-20.569W	F G	28 9	8	SG on post.	
9790	- *Shoal Lighted Buoy 40*	42-42-03.721N 082-29-44.873W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1. AIS MMSI: 993672235
	Marine City Channel *Buoys maintained from Apr. 15 to Nov. 15.*						
9795	- Buoy 1	42-42-06.000N 082-30-03.200W				Green can.	Private aid.
9800	- Buoy 2	42-42-07.000N 082-30-01.000W				Red nun.	Private aid.
9805	- Buoy 3	42-42-07.000N 082-30-03.000W				Green can.	Private aid.
9810	- Buoy 4	42-42-08.000N 082-30-01.900W				Red nun.	Private aid.
9815	- Buoy 5	42-42-07.500N 082-30-03.600W				Green can.	Private aid.
9820	- Buoy 6	42-42-08.200N 082-30-02.500W				Red nun.	Private aid.
	St. Clair River						
9825	*Fawn Island Upper End Lighted Buoy 42*	42-43-12.220N 082-29-05.174W	Q R		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9833	*Lighted Buoy A 42/2 (C)*	42-44-05.000N 082-28-47.000W	Fl R 4s			Red.	Seasonal.
9835	KESSEL POINT LIGHT (C)	42-45-06.000N 082-27-54.000W	F Y	30 9	8	Orange diamond daymark on white square skeleton mast.	
9840	RECORS POINT DOCK LOWER LIGHT	42-45-31.900N 082-28-20.700W	Fl G 4s	30 9		On white post.	Private aid.
9845	*Recors Point Lighted Buoy A44 (C)*	42-45-41.300N 082-27-54.500W	Fl R 4s			Red.	Seasonal.
9850	RECORS POINT DOCK UPPER LIGHT	42-45-53.200N 082-28-13.400W	Iso G 2s	30 9		On white post.	Private aid.
9855	BOWENS CREEK DIRECTIONAL LIGHT (C)	42-46-12.000N 082-27-48.000W	F Y	28 9		White circular tower with red top.	Higher intensity beam on on bearings 022° and 159°.
9860	HARTS LANDING LIGHT	42-47-02.750N 082-28-27.240W	Fl G 6s	26 8	8	SG on dolphin.	
9865	*Harts Landing Lighted Buoy A46 (C)*	42-47-18.000N 082-28-18.000W	Fl R 4s			Red.	Seasonal.
9870	COURTRIGHT LIGHT (C)	42-48-24.000N 082-28-42.000W	F Y	20 6	7	White skeleton tower on dolphin.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. CLAIR RIVER				
	ST. CLAIR RIVER (Chart 14852)						
	St. Clair River						
9875	*St. Clair Middle Ground Lighted Buoy 48*	42-48-51.216N 082-28-51.485W	Q R		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9880	*St. Clair Middle Ground Lighted Buoy 50*	42-49-25.215N 082-28-53.486W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9885	*St. Clair Middle Ground Lighted Buoy 52*	42-49-40.015N 082-28-49.486W	Q R		4	Red.	Year round lighted buoy. AIS MMSI: 993672215
9890	MOORETOWN LIGHT (C)	42-50-24.000N 082-28-06.000W	Fl Y 4s	30 9	8	White circular tower with red top.	
9895	*St. Clair Middle Ground Lighted Buoy A54 (C)*	42-50-30.000N 082-28-15.500W	Q R			Red.	Seasonal.
9900	*Stag Island Lower Lighted Buoy 55*	42-51-10.619N 082-28-17.087W	Fl G 4s		4	Green.	Maintained from Apr. 1 to Dec. 21.
9905	*Stag Island Shoal Lower Junction Lighted Buoy AMB (C)*	42-51-23.000N 082-28-03.700W	Fl (2+1) R 6s			Red with green band.	Seasonal.
9910	STAG ISLAND SHOAL LIGHT (C) Marks south side of shoal.	42-51-54.000N 082-28-00.000W	Fl W 4s	22 7	4	White circular tower.	
9925	STAG ISLAND MIDDLE LIGHT	42-53-09.403N 082-28-30.960W	Oc G 4s	16 5	8	SG on skeleton tower.	Higher intensity beam upstream.
9930	*Stag Island Shoal Lighted Buoy 56*	42-52-20.109N 082-28-13.290W	Fl R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9935	*Stag Island Lighted Buoy 58*	42-53-19.912N 082-28-13.991W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1. AIS MMSI: 993672216
9940	*Stag Island North Cardinal Lighted Buoy Am(C)*	42-54-19.800N 082-27-44.000W	Q W			Black and yellow.	Spar; winter marker. Seasonal.
9945	STAG ISLAND UPPER LIGHT	42-54-25.122N 082-27-57.652W	Fl G 2.5s	26 8	5	SG on post.	Higher intensity beam up and downstream.
9950	*Lighted Buoy A60 (C)*	42-55-13.000N 082-27-23.000W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
9955	*Stag Island North End Lighted Buoy AM3 (C)*	42-53-42.000N 082-27-36.000W	Fl G 4s			Green.	Spar; winter marker. Seasonal.
9965	BLACK RIVER ENTRANCE LIGHT 1	42-58-21.300N 082-25-09.600W	Fl G 4s	29 9	3	SG on pile.	
9970	*Sarnia Breakwater Junction Lighted Buoy AHB (C)*		Fl (2+1) R 6s			Red with green band.	Spar; winter marker. Seasonal.
9975	*Point Edward Lighted Buoy A66 (C)*	42-59-18.000N 082-25-18.000W	Fl R 4s			Red.	Seasonal.
9980	*Point Edward Lighted Buoy A68 (C)*	42-59-36.000N 082-25-24.000W	Q R			Red.	Spar; winter marker. Seasonal.
9990	FORT GRATIOT RANGE FRONT LIGHT	42-59-36.155N 082-25-38.430W	F G	41 13		KRW with 12 foot vertical bar light on brown cylindrical tower.	Port Huron-Sarnia Bridge center span lights (Oc G) are on Fort Gratiot rangeline. Lighted throughout 24 hours.
9995	FORT GRATIOT RANGE FRONT PASSING LIGHT	42-59-36.155N 082-25-38.430W	F G	44 13	9	On same structure as Fort Gratiot Range Front Light.	
10000	FORT GRATIOT RANGE REAR LIGHT 460 feet, 207.6° from front light.	42-59-32.129N 082-25-41.300W	F G	52 16		KRW with 12 foot vertical bar light on brown octagonal tower.	Port Huron-Sarnia Bridge center span lights (Oc G) are on Fort Gratiot range line. Lighted throughout 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	LAKE HURON (Chart 14860)						
10010	*NOAA Lighted Weather Buoy 45008*	44-17-00.000N 082-24-59.000W	Fl (4)Y 20s			Yellow disc-shaped hull.	Maintained from May. 14 to Nov 14. Aid maintained by National Oceanic and Atmospheric Administration.
	PORT HURON TO PTE AUX BARQUES (Chart 14862)						
10015	**Fort Gratiot Light**	43-00-22.596N 082-25-21.086W	Fl G 6s		16	White conical brick tower.	Station will give available information on fog conditions in upper river by radiotelephone when requested, (156.80 MHz). Lighted throughout 24 hours.
10025	POINT EDWARD RANGE FRONT LIGHT (C)	43-00-12.000N 082-25-00.000W	F R	42 13		Orange triangular daymark with black vertical stripe on white circular tower with red band at top.	RACON: M (- -) Visible from all points of approach.
10030	POINT EDWARD RANGE REAR LIGHT (C) 2,140 feet, 180.4º from front light.		F R	120 37		Orange triangular daymark, with black vertical stripe mounted on International Bridge.	Visible on range line only.
	Lake Huron Cut *Lighted buoys maintained from Apr. 1 to Dec. 21 unless otherwise noted.*						
10035	- *Lighted Buoy 1*	43-00-33.297N 082-25-04.173W	Q G		5	Green.	Replaced by lighted ice buoy from Dec 21 to 01 April. AIS MMSI: 993672236
10040	- *Lighted Buoy 2 (C)*	43-00-32.800N 082-24-53.600W	Q R			Red.	Spar; winter marker.
10045	- *Lighted Buoy 3*	43-01-47.116N 082-25-03.245W	Fl G 4s		4	Green.	
10050	- *Lighted Buoy 4*	43-01-47.116N 082-24-52.764W	Fl R 4s		4	Red.	
10055	- *Lighted Buoy 5*	43-02-40.436N 082-25-02.986W	Fl G 4s		4	Green.	
10060	- *Lighted Buoy 6*	43-02-40.496N 082-24-52.255W	Fl R 4s		4	Red.	
10065	- LIGHT 7	43-03-34.838N 082-25-03.981W	Q G	47 14	10	SG on cylindrical tower.	
10070	- *Lighted Buoy 8*	43-03-34.801N 082-24-51.210W	Q R		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
10075	- *Lighted Buoy 9*	43-04-26.145N 082-24-55.977W	Fl G 4s		4	Green.	
10080	- *Lighted Buoy 10*	43-04-25.465N 082-24-45.157W	Fl R 4s		4	Red.	
10085	- *Lighted Buoy 11*	43-05-28.404N 082-24-47.661W	Fl G 4s		5	Green.	Replaced by lighted ice buoy from 21 Dec to 01 Apr. AIS MMSI: 993672217
10090	- *Lighted Buoy 12*	43-05-27.934N 082-24-37.127W	Fl R 4s		5	Red.	Replaced by nun from Dec. 21 to Apr. 1. AIS MMSI: 993672218
	Lexington Harbor						
10095	- EAST BREAKWATER LIGHT 2	43-15-59.800N 082-31-22.230W	Fl R 2.5s	29 9	5	TR on post.	
10100	- WEST BREAKWATER LIGHT 3	43-16-02.820N 082-31-24.750W	Fl G 4s	25 8	4	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	PORT HURON TO PTE AUX BARQUES (Chart 14862)						
	Port Sanilac						
10115	**- Light**	43-25-44.430N 082-32-24.710W	Fl W 2.5s	69 21	14	White octagonal tower. 69	
10120	- NORTH BREAKWATER LIGHT 2	43-25-48.990N 082-32-05.300W	Fl R 4s	35 11	7	TR on pile.	
10125	- SOUTH BREAKWATER LIGHT 3	43-25-51.700N 082-32-08.980W	Fl G 4s	29 9	5	SG on pile.	
	Wagener County Park *Buoys maintained from May 1 to Oct. 1.*						
10126	- Buoy 1	43-46-12.000N 082-36-54.000W				Green can.	Private aid.
10126.5	- Buoy 2	43-46-12.000N 082-36-54.000W				Red nun.	Private aid.
10127	- Buoy 3	43-46-12.000N 082-36-54.000W				Green can.	Private aid.
10127.5	- Buoy 4	43-46-12.000N 082-36-54.000W				Red nun.	Private aid.
10128	- Buoy 5	43-46-12.000N 082-36-54.000W				Green can.	Private aid.
10128.5	- Buoy 6	43-46-12.000N 082-36-54.000W				Red nun.	Private aid.
10129	*White Rock Shoal Lighted Buoy 3*	43-43-59.000N 082-35-19.000W	Fl G 4s		4	Green.	Maintained from May 1 to Nov. 1.
	Harbor Beach						
10130	- LIGHT "2"	43-50-44.196N 082-37-52.086W	Fl R 6s	20 6	8	TR on navigation pole	HORN: 1 blast ev 30s (3s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
10133	- LIGHT	43-50-44.299N 082-37-53.102W	Fl W 6s	54 16			Private aid.
10140	**- South Pier Light 1**	43-50-37.701N 082-37-51.970W	Fl G 4s	27 8	11	SG on post.	
10145	- Buoy 3	43-50-38.745N 082-38-05.386W				Green can.	Maintained from 21 Apr to 01 Nov
10150	- *Lighted Buoy 4*	43-50-43.714N 082-37-54.349W	Fl R 2.5s		4	Red nun.	Maintained from 21 Apr to 01 Nov
10155	- Buoy 5	43-51-00.370N 082-38-15.031W				Green can.	Maintained from 21 Apr to 01 Nov
10161	- Buoy 7	43-51-12.685N 082-38-27.708W				Green can.	Maintained 21 Apr. to 01 Nov.
10162	- Buoy 9	43-51-18.242N 082-38-37.236W				Green can.	Maintained 21 Apr. to 01 Nov
	Offshore Marine *Buoys maintained from Apr. 1 to Nov. 1.*						
10165	- Buoy 1	43-50-56.100N 082-38-36.800W				Green spar.	Private aid.
10170	- Buoy 2	43-50-59.000N 082-32-55.000W				Red spar.	Private aid.
10175	- Buoy 3	43-50-56.100N 082-38-39.800W				Green spar.	Private aid.
10180	- Buoy 4	43-50-56.100N 082-38-58.000W				Red spar.	Private aid.
10185	- Buoy 5	43-50-56.100N 082-38-42.200W				Green spar.	Private aid.
10190	- Buoy 6					Red spar.	Private aid.
	Stafford County Park *Buoys maintained from May 1 to Oct. 1.*						
10202.1	- Buoy 1	43-56-36.000N 082-42-24.000W				Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	PORT HURON TO PTE AUX BARQUES (Chart 14862)						
	Harbor Beach						
	Stafford County Park						
	Buoys maintained from May 1 to Oct. 1.						
10202.2	- Buoy 2	43-56-36.000N 082-42-24.000W				Red nun.	Private aid.
10202.3	- Buoy 3	43-56-36.000N 082-42-24.000W				Green can.	Private aid.
10202.4	- Buoy 4	43-56-36.000N 082-42-24.000W				Red nun.	Private aid.
10202.5	- Buoy 5	43-56-36.000N 082-42-24.000W				Green can.	Private aid.
10202.6	- Buoy 6	43-56-36.000N 082-42-24.000W				Red nun.	Private aid.
	Harbor Beach						
10205	*Point Aux Barques Lighted Buoy 1*	44-02-32.504N 082-45-19.687W	Fl G 4s		4	Green.	Maintained from Apr. 28 to Nov 14.
10210	**Point Aux Barques Light**	44-01-22.208N 082-47-35.728W	Fl (2)W 20s 0.2s fl 4.8s ec. 0.2s fl 14.8s ec.	93 28	16	White conical tower with dwelling attached. 93	
	Lighthouse County Park						
	Buoys maintained from May 1 to Oct. 1.						
10211	- Buoy 1	44-01-00.000N 082-47-12.000W				Green can.	Private aid.
10212	- Buoy 2	44-01-00.000N 082-47-12.000W				Red nun.	Private aid.
	SAGINAW BAY (Chart 14863)						
	Grindstone Channel						
	Entrance buoys maintained from Apr. 15 to Nov. 15.						
10215	- Entrance Buoy 1	44-03-30.000N 082-53-30.000W				Green can.	Private aid.
10220	- Entrance Buoy 2	44-03-49.000N 082-53-46.000W				Red nun.	Private aid.
10225	- Entrance Buoy 3	44-03-42.000N 082-53-48.000W				Green can.	Private aid.
10230	- Entrance Buoy 4	44-03-42.000N 082-53-48.000W				Red nun.	Private aid.
10235	- Entrance Buoy 5	44-03-39.000N 082-53-50.000W				Green can.	Private aid.
10240	- Entrance Buoy 6	44-03-40.000N 082-53-51.000W				Red nun.	Private aid.
10245	- Entrance Buoy 7	44-03-39.000N 082-53-53.000W				Green can.	Private aid.
10250	- Entrance Buoy 8	44-03-38.000N 082-53-54.000W				Red nun.	Private aid.
10255	- Entrance Buoy 9	44-03-38.000N 082-53-56.000W				Green can.	Private aid.
10260	- Entrance Buoy 10	44-03-37.000N 082-53-58.000W				Red nun.	Private aid.
10265	- Entrance Buoy 11	44-03-37.000N 082-53-59.000W				Green can.	Private aid.
10270	- Entrance Buoy 12	44-03-36.000N 082-53-59.000W				Red nun.	Private aid.
10271	- Entrance Buoy 13	44-03-22.200N 082-53-34.800W				Green can.	Private aid.
10272	- Entrance Buoy 14	44-03-22.800N 082-53-35.400W				Red nun.	Private aid.
10273	- Entrance Buoy 15	44-03-20.400N 082-53-37.200W				Green can.	Private aid.
10274	- Entrance Buoy 16	44-03-21.000N 082-53-37.800W				Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW BAY (Chart 14863)						
	Port Austin						
	Buoys maintained from May 1 to Nov. 1.						
10275	- REEF LIGHT	44-04-55.300N 082-58-56.615W	Fl W 6s	76 23	8	Buff square tower with house attached.	
10280	- Shoal Buoy 1 Marks north side of shoal.	44-05-48.035N 082-59-35.182W				Green can.	Maintained from May 1 to Nov 14.
10285	- Buoy 3	44-03-33.729N 082-59-36.620W				Green can.	
10290	- BREAKWATER LIGHT 4	44-03-11.450N 082-59-36.900W	Fl R 2.5s	24 7	4	TR on pile.	
10295	- LIGHT 5	44-03-13.700N 082-59-37.000W	Fl G 2.5s	25 8	6	SG on post.	
10300	- Buoy 5A	44-03-09.426N 082-59-30.282W				Green can.	
10305	- Buoy 6	44-03-04.798N 082-59-38.553W				Red nun.	
10310	- Buoy 7	44-02-59.216N 082-59-36.517W				Green can.	
10315	- Channel Buoy 1	44-02-54.000N 082-59-40.000W				On black spar.	Maintained from Jun. 1 to Sep. 1. Private aid.
10320	- Channel Buoy 2	44-03-01.000N 082-59-40.000W				On red spar.	Maintained from Jun. 1 to Sep. 1 Private aid.
10325	- Channel Buoy 4	44-02-58.000N 082-59-43.000W				On red spar.	Maintained from Jun. 1 to Sep. 1. Private aid.
10330	- Channel Buoy 6	44-02-56.000N 082-59-43.000W				On red spar.	Maintained from Jun. 1 to Sep. 1 Private aid.
	Caseville Harbor						
	Buoys maintained from May 1 to Nov. 1.						
10345	- LIGHT 1	43-56-52.600N 083-17-09.800W	Fl G 2.5s	27 8	5	SG on post.	
10350	- RANGE FRONT LIGHT	43-56-43.100N 083-16-43.400W	F R	25 8		On red pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
10355	- RANGE REAR LIGHT 330 feet, 113.5° from front light.	43-56-42.000N 083-16-39.900W	F R	30 9		On red pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
10365	- Buoy 2	43-56-51.540N 083-17-10.560W				Red nun.	
10370	- Buoy 4	43-56-48.334N 083-16-59.748W				Red nun.	
10372	- Buoy 6	43-56-47.005N 083-16-55.381W				Red nun.	
10373	- LIGHT	43-56-36.500N 083-16-22.000W	Fl W 10s	65 20		Square white tower with red roofed cupola.	Private aid.
10375	Sand Point Midchannel Buoy S	43-55-54.960N 083-24-45.660W				Red and white stripes; spherical.	
10380	*Wildfowl Bay Channel Lighted Buoy 1*	43-52-42.000N 083-21-24.000W	Q G			Green.	Maintained from May 15 to Oct. 15. Private aid.
10385	*Wildfowl Bay Channel Lighted Buoy 2*	43-52-42.000N 083-21-24.200W	Q R			Red.	Maintained from May 15 to Oct 15. Private aid.
	SAGINAW BAY (Chart 14863)						
10390	*Sebewaing Harbor Channel Lighted Buoy 1*	43-45-08.874N 083-31-15.652W	Fl G 2.5s			Green.	Maintained from Apr. 21 to Nov. 15.
10395	*Sebewaing Harbor Channel Lighted Buoy 2*	43-45-07.554N 083-31-16.386W	Fl R 2.5s			Red.	Maintained from Apr. 21 to Nov. 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW BAY (Chart 14863)						
10400	*Sebewaing Channel Lighted Buoy 3*	43-44-58.542N 083-30-37.698W	Fl G 4s		4	Green	Maintained from Apr. 21 to Nov. 15.
10405	*Sebewaing Channel Lighted Buoy 4*	43-44-57.450N 083-30-38.886W	Fl R 4s		4	Red	Maintained from Apr. 21 to Nov. 15.
10410	*Sebewaing Channel Lighted Buoy 5*	43-44-48.246N 083-30-00.456W	Fl G 6s		4	Green	Maintained from Apr. 21 to Nov. 15.
10415	*Sebewaing Channel Lighted Buoy 6*	43-44-47.346N 083-30-01.128W	Fl R 6s		4	Red	Maintained from Apr. 21 to Nov. 15.
10420	*Sebewaing Channel Lighted Buoy 7*	43-44-37.212N 083-29-20.652W	Fl G 4s		4	Green	Maintained from Apr. 21 to Nov. 15.
10425	*Sebewaing Channel Lighted Buoy 8*	43-44-36.606N 083-29-21.204W	Fl R 4s		4	Red	Maintained from Apr. 21 to Nov. 15.
10470	SEBEWAING YACHT CLUB SOUTH LIGHT	43-44-12.000N 083-27-48.000W	F R	24 7		On pile.	Maintained from Mar. 15 to Oct. 15. Private aid.
10475	SEBEWAING YACHT CLUB NORTH LIGHT	43-44-23.000N 083-27-08.000W	F G	24 7		On pile.	Maintained from Mar. 15 to Oct. 15. Private aid.
10480	OAKHURST PARK MARINA RANGE FRONT LIGHT	43-37-45.100N 083-37-08.000W	F G	17 5		Orange triangle on post.	Maintained from May 1 to Oct. 31. Private aid.
10485	OAKHURST PARK MARINA RANGE REAR LIGHT 100 feet, 143.5° from front light.	43-37-44.900N 083-37-07.800W	F G	37 11		Orange and white triangle on tower.	Maintainted from May 1 to Oct. 31. Private aid.
	Quanicassee River *Buoys maintained from May 1 to Oct. 1.*						
10490	- Buoy 1	43-35-46.000N 083-40-32.400W				Green can.	Private aid.
10495	- Buoy 2	43-35-46.000N 083-40-32.400W				Red nun.	Private aid.
10500	- Buoy 3	43-35-41.000N 083-40-36.000W				Green can.	Private aid.
10505	- Buoy 4	43-35-41.000N 083-40-36.000W				Red nun.	Private aid.
10510	- Buoy 5	43-35-34.000N 083-40-40.000W				Green can.	Private aid.
10515	- Buoy 6	43-35-34.000N 083-40-40.000W				Red nun.	Private aid.
10520	- Buoy 7	43-35-22.000N 083-40-46.000W				Green can.	Private aid.
10525	- Buoy 8	43-35-22.000N 083-40-46.000W				Red nun.	Private aid.
	SAGINAW BAY (Chart 14863)						
10530	*Charity Island Shoal Lighted Bell Buoy 1*	44-06-30.156N 083-29-46.172W	Q G		5	Green.	Replaced by can from Dec. 7 to Apr. 28. AIS MMSI: 993672219
10535	*Charity Island Shoal Lighted Buoy 3* Marks west side of shoal.	44-03-25.005N 083-30-43.833W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 28. AIS MMSI: 993672220
10540	**Gravelly Shoal Light**	44-01-11.425N 083-32-18.218W	Fl R 6s	75 23	10	White square tower on cylindrical base. 75	HORN: 1 blast ev 30s (3s bl). Operates continuously.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW RIVER (Chart 14867)						
	Saginaw Bay Channel						
10550	- RANGE FRONT LIGHT	43-38-54.324N 083-51-05.673W	F R (NIGHT) F R (DAY)	70 21 66 20		On skeleton tower.	Lighted throughout 24 hours.
10555	SAGINAW BAY RANGE FRONT PASSING LIGHT	43-38-54.324N 083-51-05.673W	F R	66 20	8	On same structure as Saginaw Bay Channel Range Front Light.	
10560	- RANGE REAR LIGHT 8,708 feet, 211.2° from front light.	43-37-40.758N 083-52-07.018W	F G	159 48		On skeleton tower.	Lighted throughout 24 hours.
10570	**- Light 1**	43-48-21.049N 083-43-07.826W	Fl G 6s	50 15	10	White cylindrical tower with green band in middle. 50	
10575	- *Lighted Buoy 2*	43-48-23.127N 083-43-12.997W	Fl R 2.5s		4	Red.	Nun; winter marker. Maintained from Apr. 21 to Dec. 7.
10590	- Buoy 3	43-47-27.034N 083-43-53.880W				Green can.	
10595	- Buoy 4	43-47-29.000N 083-43-58.000W				Red nun.	
10600	- *Lighted Buoy 5*	43-46-34.300N 083-44-38.500W	Fl G 4s		4	Green.	Can; winter marker. Maintained from Apr. 21 to Dec. 7. AIS MMSI: 993672221
10605	- *Lighted Buoy 6*	43-46-35.661N 083-44-42.582W	Fl R 4s		4	Red.	Nun; winter marker. Maintained from Apr. 21 to Dec. 7. AIS MMSI: 993672222
10610	- Buoy 7	43-45-41.000N 083-45-23.200W				Green can.	
10615	- Buoy 8	43-45-43.480N 083-45-26.905W				Red nun.	
10620	- *Lighted Buoy 9*	43-44-48.183N 083-46-06.982W	Fl G 4s		4	Green.	Can; winter marker. Maintained from Apr. 21 to Dec. 7.
10625	- *Lighted Buoy 10*	43-44-50.000N 083-46-12.000W	Fl R 4s		4	Red.	Nun; winter marker. Maintained from Apr. 21 to Dec. 7.
10640	- *Lighted Buoy 11*	43-43-54.183N 083-46-51.978W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 07 to Apr. 21.
10644	- LIGHT 12	43-43-56.354N 083-46-56.919W	Fl R 2.5s	20 6	6	White cylindrical tower with red stripe in middle.	
10650	- Buoy 13	43-42-59.809N 083-47-38.274W				Green can.	
10655	- Buoy 14	43-43-02.000N 083-47-42.200W				Red nun.	
10660	- *Lighted Buoy 15*	43-42-07.000N 083-48-22.300W	Fl G 4s		4	Green.	Replaced by can from Dec. 07 to Apr. 21. AIS MMSI: 993672223
10665	- *Lighted Buoy 16*	43-42-08.700N 083-48-27.000W	Fl R 4s		4	Red.	Replaced by nun from Dec. 07 to Apr. 21. AIS MMSI: 993672224
10670	- Buoy 17	43-41-13.000N 083-49-07.500W				Green can.	
10675	- Buoy 18	43-41-15.000N 083-49-11.500W				Red nun.	
10680	- *Lighted Buoy 19*	43-40-21.975N 083-49-49.739W	Fl G 4s		4	Green.	Replaced by can from Dec. 07 to Apr. 21.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW RIVER (Chart 14867)						
	Saginaw Bay Channel						
10685	- *Lighted Buoy 20*	43-40-24.031N 083-49-53.846W	Fl R 4s		4	Red.	Replaced by nun from Dec. 07 to Apr. 21.
10690	- OBSTRUCTION LIGHT A	43-40-16.200N 083-49-53.300W	Q W	21 6		On dolphin.	Maintained from Apr. 15 to Dec. 15. Maintained by ACOE. Private aid.
10695	- OBSTRUCTION LIGHT B	43-40-14.600N 083-49-54.600W	Q W	21 6		On dolphin.	Maintained from Apr. 15 to Dec. 15. Maintained by ACOE. Private aid.
10710	- *Lighted Buoy 21*	43-39-38.567N 083-50-25.985W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 01 to Apr. 21.
10715	- *Lighted Buoy 22*	43-39-40.358N 083-50-30.056W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 01 to Apr. 21.
10720	- *Lighted Buoy 23*	43-39-08.890N 083-50-50.750W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 01 to Apr. 21.
10725	- *Lighted Buoy 24*	43-39-09.290N 083-50-55.702W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 01 to Apr. 21.
10730	- LIGHT 26	43-39-02.024N 083-50-59.345W	Q R	23 7	6	TR on pile.	
10735	- *Lighted Buoy 25*	43-38-58.700N 083-50-54.454W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 01 to Apr. 21.
10740	- *Lighted Buoy 28*	43-38-46.147N 083-50-58.249W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 01 to Apr. 21.
10745	Bay City Yacht Club North Basin Buoy 1	43-38-36.960N 083-51-00.540W				Green can.	Maintained from May 1 to Oct. 15. Private aid.
10746	Bay City Yacht Club Noth Basin Buoy 2	43-38-37.320N 083-51-00.600W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10747	Bay City Yacht Club North Basin Buoy 3	43-38-36.720N 083-51-02.340W				Green can.	Maintained from May 1 to Oct. 15. Private aid.
10748	Bay City Yacht Club North Basin Buoy 4	43-38-37.080N 083-51-02.400W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10749	Bay City Yacht Club North Basin Buoy 5	43-38-36.480N 083-51-04.140W				Green can.	Maintained from May 1 to Oct. 15. Private aid.
10750	Bay City Yacht Club North Basin Buoy 6	43-38-36.840N 083-51-04.200W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10751	Bay City Yacht Club South Basin Buoy 1	43-38-29.400N 083-51-00.180W				Green can.	Maintained from May 1 to Oct. 15. Private aid.
10752	Bay City Yacht Club South Basin Buoy 2	43-38-30.000N 083-51-00.540W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10753	Bay City Yacht Club South Basin Buoy 3	43-38-29.100N 083-51-01.080W				Green can.	Maintained from May 1 to Oct. 15. Private aid.
10754	Bay City Yacht Club South Basin Buoy 4	43-38-29.700N 083-51-01.440W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
	Saginaw River *Lighted buoys maintained from Apr. 21 to Dec. 01.*						
10755	- Buoy 2	43-38-31.425N 083-50-55.659W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW RIVER (Chart 14867)						
	Saginaw River						
	Lighted buoys maintained from Apr. 21 to Dec. 01.						
10760	ESSEXVILLE RANGE FRONT LIGHT	43-37-21.712N 083-50-19.204W	F G	38 12		KRW on skeleton tower.	Visible 4° each side of range line.
10765	ESSEXVILLE RANGE REAR LIGHT 1,099 feet, 160.1° from front light.	43-37-11.502N 083-50-14.129W	F G	53 16		KRW on skeleton tower.	Visible 4° each side of range line.
10770	- *Lighted Buoy 3*	43-38-14.023N 083-50-44.040W	Fl G 4s		4	Green.	Can; winter marker.
10775	- *Lighted Buoy 4*	43-38-13.347N 083-50-46.595W	Fl R 4s		4	Red.	Nun; winter marker.
10780	- Buoy 5	43-37-53.147N 083-50-33.561W				Green can.	
10785	- Buoy 6	43-37-52.497N 083-50-36.029W				Red nun.	
10790	- *Lighted Buoy 7*	43-37-37.084N 083-50-25.525W	Fl G 4s		4	Green.	Can; winter marker
10795	- *Lighted Buoy 8*	43-37-36.768N 083-50-28.260W	Fl R 4s		4	Red.	Nun; winter marker
10800	- *Lighted Buoy 10*	43-37-21.660N 083-50-28.940W	Fl R 4s		4	Red.	Nun; winter marker.
10805	- *Lighted Buoy 12*	43-37-09.360N 083-50-36.100W	Fl R 2.5s		4	Red.	Nun; winter marker.
10810	- Buoy 14	43-37-04.262N 083-50-41.831W				Red nun.	
10815	- *Lighted Buoy 16*	43-36-59.882N 083-50-50.854W	Fl R 4s		4	Red.	Nun; winter marker.
10817	- Buoy 18	43-36-50.000N 083-51-13.800W				Red nun.	
10820	- Buoy 19	43-36-44.701N 083-51-38.930W				Green can.	
10825	- Buoy 20	43-36-47.506N 083-51-39.091W				Red nun.	
10830	- Buoy 21	43-36-43.768N 083-52-44.455W				Green can.	
10835	- *Lighted Buoy 23*	43-36-36.539N 083-53-03.953W	Fl G 4s		4	Green.	Can; winter marker.
10840	- Buoy 25	43-36-26.458N 083-53-16.618W				Green can.	
10845	- Buoy 27	43-36-05.210N 083-53-29.069W				Green can.	
10850	- *Lighted Buoy 28*	43-35-20.738N 083-53-45.962W	Fl R 4s		4	Red.	Nun; winter marker.
10855	- Buoy 30	43-34-17.382N 083-54-11.857W				Red nun.	
10860	- *Lighted Buoy 31*	43-34-04.656N 083-54-13.918W	Fl G 4s		4	Green.	Can; winter marker.
10862	- Buoy 33	43-33-41.100N 083-54-16.530W				Green can.	
10865	- Buoy 35	43-33-12.960N 083-54-18.300W				Green.	
10870	- Buoy 37	43-33-04.494N 083-54-16.441W				Green can.	
10875	- *Lighted Buoy 36*	43-33-12.926N 083-54-21.634W	Fl R 4s		4	Red.	Nun; winter marker.
10880	- Buoy 39	43-32-51.878N 083-54-12.821W				Green can.	
10885	- Buoy 40	43-32-52.031N 083-54-15.639W				Red nun.	
10890	- Buoy 41	43-32-41.285N 083-54-09.782W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW RIVER (Chart 14867)						
	Saginaw River						
	Lighted buoys maintained from Apr. 21 to Dec. 01.						
10895	- Buoy 42	43-32-40.674N 083-54-12.381W				Red nun.	
10900	- Buoy 43	43-32-31.578N 083-54-03.812W				Green.	
10905	- *Lighted Buoy 44*	43-32-29.945N 083-54-05.783W	Fl R 4s		4	Red.	Nun; winter marker.
10910	- *Lighted Buoy 45*	43-32-26.598N 083-53-54.593W	Fl G 4s		4	Green.	Can; winter marker.
10915	- Buoy 46	43-32-23.996N 083-53-56.734W				Red nun.	
10925	- Buoy 47	43-32-20.579N 083-53-24.554W				Green can.	
10930	- *Lighted Buoy 48*	43-32-18.376N 083-53-26.847W	Fl R 4s		4	Red.	Nun; winter marker.
10935	- Buoy 49	43-32-10.874N 083-53-10.701W				Green can.	
10940	- *Lighted Buoy 50*	43-32-09.637N 083-53-12.900W	Fl R 4s		4	Red.	Nun; winter marker.
10945	- Buoy 52	43-31-56.434N 083-53-02.108W				Red nun.	
10950	- Buoy 53	43-31-53.678N 083-52-56.712W				Green can.	
10955	- *Lighted Buoy 54*	43-31-49.713N 083-53-01.051W	Fl R 4s		4	Red.	Nun; winter marker.
10960	- Buoy 55	43-31-48.000N 083-52-58.500W				Green can.	
10965	- Buoy 56	43-31-27.436N 083-53-09.595W				Red nun.	
10970	- *Lighted Buoy 57*	43-31-28.000N 083-53-06.000W	Fl G 4s		4	Green.	Can; winter marker.
10975	- Buoy 59	43-31-12.896N 083-53-02.984W				Green can.	
10980	- Buoy 60	43-31-12.384N 083-53-05.585W				Red nun.	
10985	- Buoy 61	43-30-56.811N 083-52-58.671W				Green can.	
10990	- *Lighted Buoy 62*	43-30-58.454N 083-53-01.873W	Fl R 4s		4	Red.	Nun; winter marker.
10995	- Buoy 63	43-30-49.987N 083-53-00.268W				Green can.	
11000	- Buoy 64	43-30-50.591N 083-53-02.880W				Red nun.	
11005	- Buoy 65	43-30-38.000N 083-53-08.000W				Green can.	
11010	- Buoy 66	43-30-39.000N 083-53-11.000W				Red nun.	
11015	- Buoy 67	43-30-23.977N 083-53-17.413W				Green can.	
11020	- *Lighted Buoy 68*	43-30-25.089N 083-53-19.689W	Fl R 4s		4	Red.	Nun; winter marker.
11035	- Buoy 69	43-30-05.800N 083-53-40.000W				Green can.	
11040	- Buoy 70	43-30-07.500N 083-53-42.000W				Red nun.	
11045	- *Lighted Buoy 71*	43-29-48.198N 083-54-01.786W	Fl G 4s		4	Green.	Can; winter marker.
11050	- Buoy 72	43-29-49.414N 083-54-03.935W				Red nun.	
11055	- Buoy 73	43-29-19.976N 083-54-27.561W				Green can.	
11060	- Buoy 74	43-29-22.606N 083-54-28.566W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW RIVER (Chart 14867)						
	Saginaw River						
	Lighted buoys maintained from Apr. 21 to Dec. 01.						
11065	- Buoy 76	43-28-32.378N 083-54-44.400W				Red nun.	
11070	- Buoy 78	43-28-18.903N 083-54-36.322W				Red nun.	
11075	- *Lighted Buoy 80*	43-28-13.790N 083-54-35.302W	Fl R 4s		4	Red.	Nun; winter marker.
11080	- Buoy 82	43-27-44.154N 083-54-43.566W				Red nun.	
11082	- *Lighted Buoy 84*	43-27-30.200N 083-54-58.000W	Fl R 2.5s		4		
11085	- Buoy 86	43-27-21.515N 083-55-21.774W				Red nun.	
11087	- *Lighted Buoy 87*	43-27-10.000 N 083-55-48.000 W	Fl G 4s		4		
11090	- Buoy 88	43-27-00.901N 083-56-06.425W				Red nun.	
11095	- Buoy 89	43-26-43.943N 083-56-12.299W				Green can.	
	Pinconning Park						
	Buoys maintained from May 1 to Oct. 1.						
11111	- Buoy 1	43-50-51.000N 083-55-06.000W				Green.	Private aid.
11112	- Buoy 2	43-50-51.000N 083-55-06.000W				Red.	Private aid.
11113	- Buoy 3	43-50-51.000N 083-55-06.000W				Green.	Private aid.
11114	- Buoy 4	43-50-51.000N 083-55-06.000W				Red.	Private aid.
11115	- Buoy 5	43-50-51.000N 083-55-06.000W				Green.	Private aid.
11116	- Buoy 6	43-50-51.000N 083-55-06.000W				Red.	Private aid.
	SAGINAW BAY (Chart 14863)						
	Au Gres Harbor						
11140	Point Au Gres Obstruction Buoy	43-59-12.000N 083-40-36.000W				White with orange bands and diamond worded DANGER SUBMERGED OBSTRUCTION, can.	Maintained from May 1 to Nov. 1.
11145	- Entrance Buoy 1	44-01-01.500N 083-39-45.600W				Green can.	Maintained from May 1 to Nov. 1.
11150	- Entrance Buoy 2	44-01-04.920N 083-39-43.800W				Red nun.	Maintained from May 1 to Nov. 1.
11155	- NORTH PIER LIGHT 4	44-01-11.990N 083-40-00.000W	Fl R 2.5s	26 8	6	TR on white cylindrical tower with red band.	
11160	- SOUTH PIER LIGHT 3	44-01-10.880N 083-40-03.380W	Fl G 4s	30 9	7	SG on post.	
11165	ALABASTER TRAMWAY RANGE FRONT LIGHT	44-11-24.000N 083-31-54.000W	F R			Gray box.	Private aid.
11170	ALABASTER TRAMWAY RANGE REAR LIGHT 170 feet, 270° from front light.		F R			Gray box.	Private aid.
11170.1	U.S. GYPSUM TRAMWAY LIGHT A	44-11-19.000N 083-33-19.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11170.2	U.S. GYPSUM TRAMWAY LIGHT B	44-11-18.000N 083-33-09.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW BAY (Chart 14863)						
	Au Gres Harbor						
11170.3	U.S. GYPSUM TRAMWAY LIGHT C	44-11-16.000N 083-32-58.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11170.4	U.S. GYPSUM TRAMWAY LIGHT D	44-11-15.000N 083-32-49.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11170.5	U.S. GYPSUM TRAMWAY LIGHT E	44-11-14.000N 083-32-39.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11170.6	U.S. GYPSUM TRAMWAY LIGHT F	44-11-13.000N 083-32-29.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11170.7	U.S. GYPSUM TRAMWAY LIGHT G	44-11-11.000N 083-32-19.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11170.8	U.S. GYPSUM TRAMWAY LIGHT H	44-11-10.000N 083-32-09.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11170.9	U.S. GYPSUM TRAMWAY LIGHT I	44-11-09.000N 083-31-59.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11171	U.S. GYPSUM TRAMWAY LIGHT J	44-11-08.000N 083-37-56.000W	Fl W 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11171.1	U.S. GYPSUM TRAMWAY LIGHT K	44-11-09.000N 083-31-56.000W	Fl W 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11171.2	U.S. GYPSUM TRAMWAY LIGHT L	44-11-08.000N 083-31-54.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11171.3	U.S. GYPSUM TRAMWAY LIGHT M	44-11-09.000N 083-31-54.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11171.4	U.S. GYPSUM TRAMWAY LIGHT N	44-11-07.000N 083-31-51.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11171.5	U.S. GYPSUM TRAMWAY LIGHT O	44-11-09.000N 083-31-51.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11171.6	U.S. GYPSUM TRAMWAY LIGHT P	44-11-24.000N 083-33-15.000W	Fl Y 4s				Maintained from Apr. 15 to Oct. 15. Private aid.
11175	*Northport Marina Entrance Lighted Buoy 1*	44-02-43.800N 083-39-12.000W	Fl G 2.5s			Green.	Maintained from May 1 to Oct. 31. Private aid.
11180	*Northport Marina Entrance Lighted Buoy 2*	44-02-45.600N 083-39-06.000W	Fl R 2.5s			Red.	Maintained from May 1 to Oct. 31. Private aid.
	National Gypsum Company *Aids maintained from Apr. 1 to Dec. 30.*						
11190	- RANGE FRONT LIGHT	44-14-15.500N 083-32-24.500W	F R	46 14		On post.	Light operated only for vessel arrivals and departures. Private aid.
11195	- RANGE REAR LIGHT 1,400 feet, 293.5° from front light.	44-14-21.200N 083-32-42.000W	F R	78 24		On post.	Light operated only for vessel arrivals and departures. Private aid.
	Tawas						
11240	**- Light**	44-14-54.012N 083-27-32.947W	Fl W 4s	46 14	11	Square skeleton tower. 46	HORN: 2 blasts ev 60s (3s bl-3s si-3s bl-51s si). Fog signal operates by keying VHF FM Marine Radio channel 83A five times.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	SAGINAW BAY (Chart 14863)						
	Tawas						
11245	- *Point Lighted Buoy 2*	44-14-27.901N 083-28-15.333W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Dec. 1.
11250	- *Harbor Lighted Buoy 4* Marks northwest side of shoal.	44-15-38.000N 083-27-59.100W	Fl R 2.5s		4	Red.	Maintained from Apr. 28 to Dec. 1.
11255	- *Harbor Lighted Buoy 6*	44-15-54.000N 083-27-10.000W	Fl R 4s		4	Red.	Maintained from 28 April to 01 November
11265	- BAY YACHT CLUB RANGE FRONT LIGHT	44-15-47.400N 083-26-59.000W	F R	8 2		Red square daymark on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
11270	- BAY YACHT CLUB RANGE REAR LIGHT 150 feet, 165° from front light.	44-15-00.770N 083-26-00.554W	F R	12 4		Red square daymark on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
11275	JERRY'S MARINA RANGE FRONT LIGHT	44-15-48.500N 083-26-27.000W	F G	12 4		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
11280	JERRY'S MARINA RANGE REAR LIGHT 400 feet, 128° from front light.		F G	20 6		On tree.	Maintained from Apr. 1 to Nov. 1. Private aid.
11285	- BAY HARBOR LIGHT 5	44-16-38.000N 083-29-10.000W	Fl G 6s	25 8	7	SG on pile.	
11300	- RIVER RANGE FRONT LIGHT	44-15-34.500N 083-31-38.000W	F R	10 3		White diamond daymark on pile.	Maintained from Apr. 1 to Dec. 1. Private aid.
11305	- RIVER RANGE REAR LIGHT 130 feet, 326° from front light.		F R	18 5		White diamond daymark on pile.	Maintained from Apr. 1 to Dec. 1. Private aid.
11306	- BAY CONDO MARINA RANGE FRONT LIGHT		F Y	8 2		Circular orange daymark on pile.	Maintained from May 1 to Nov. 1. Private aid.
11307	- BAY CONDO MARINA RANGE REAR LIGHT 252 feet, 132° from front light.		F Y	15 5		Circular orange daymark on pile.	Maintained from May 1 to Nov. 1. Private aid.
11308.1	- *Bay Condo Marina Buoy 1*	44-15-23.000N 083-31-34.000W	Fl G 4s				Maintained from May 1 to Nov. 1. Private aid.
11308.2	- *Bay Condo Marina Buoy 2*	44-15-24.000N 083-31-32.000W	Fl R 4s				Maintained from May 1 to Nov. 1. Private aid.
11308.3	- BAY CONDO MARINA LIGHT 3		Fl G 2.5s	11 3		SG on pole on south jetty.	Maintained from May 1 to Nov. 1. Private aid.
11308.4	- BAY CONDO MARINA LIGHT 4		Fl R 2.5s	11 3		TR on pole on north jetty.	Maintained from May 1 to Nov. 1. Private aid.
	Au Sable						
11310	- *Point Lighted Buoy 1*	44-18-59.560N 083-17-12.974W	Fl G 6s		4	Green.	Maintained from Apr. 28 to Dec. 1.
11315	- SOUTH PIERHEAD LIGHT	44-24-21.900N 083-19-00.300W	Fl G 4s	25 8	6	SG on white tower.	
11320	- NORTH PIERHEAD LIGHT	44-24-23.870N 083-18-59.380W	Fl R 4s	25 8	7	TR on white tower.	HORN: 1 blast ev 30s (3s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	HARRISVILLE TO FORTY MILE POINT (Chart 14864)						
	Harrisville						
11323	- Entrance Buoy 2	44-39-46.242N 083-16-51.450W				Red nun	Maintained from May. 01 to Nov. 01.
11325	- EAST BREAKWATER LIGHT 3	44-39-41.000N 083-16-54.500W	Fl G 2.5s	20 6	7	SG on post.	
11330	- WEST BREAKWATER LIGHT 4	44-39-38.800N 083-16-59.700W	Fl R 4s	33 10	5	TR on column.	
11345	STURGEON POINT LIGHT	44-42-45.500N 083-16-21.000W	Fl W 6s	69 21	9		
11345.1	W. H. Rounds Wreck Mooring Buoy	44-50-13.139N 083-16-56.340W					Private aid.
	Thunder Bay National Marine Sanctuary *Buoys maintained May 1 through Oct 31.*						
11348	*TBNMS Wreck Mooring Lighted Buoy*	44-59-03.800N 083-15-11.000W	Q W			Mooring buoy.	"Montana (Bow)" Private aid.
11353	*TBNMS Wreck Mooring Lighted Buoy*	45-03-46.000N 083-23-34.000W	Q W			Mooring buoy.	"William P. Rend" Private aid.
	Alpena						
11355	*Thunder Bay Traffic Lighted Bell Buoy TB*	44-58-41.048N 083-15-17.282W	Mo (A) W		4	Red and white stripes.	Maintained from Apr. 28 to Dec. 1.
11356	*Haltiner Barge Boiler Wreck Mooring Buoy*	45-02-08.279N 083-19-35.400W					Private aid.
11360	North Point Buoy 10	45-00-05.930N 083-14-56.490W				Red nun.	
11365	PARTRIDGE POINT MARINA LIGHT	45-01-06.000N 083-27-00.200W	Fl W 2.5s	20 6		White house.	Maintained from Apr. 1 to Nov. 1. Private aid.
11370	**- Light**	45-03-37.229N 083-25-23.022W	Fl R 6s	44 13	9	Red skeleton tower with upper part enclosed. 44	To operate the fog signal, key the microphone on channel 83A VHF marine radio five times. HORN: 1 blast ev 15s (2s bl).
11375	- SOUTH BREAKWATER LIGHT	45-03-35.000N 083-25-25.000W	Fl G 2.5s	29 9	5	White tower with green band.	
11380	CITY OF ALPENA HARBOR ENTRANCE LIGHT 1	45-03-37.800N 083-25-29.900W	Fl G 4s	15 5		SG on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
11385	CITY OF ALPENA HARBOR ENTRANCE LIGHT 2	45-03-37.700N 083-25-29.600W	F R	15 5		TR on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
	East Alpena Channel						
11386	LAFARGE CORPORATION CHANNEL RANGE FRONT LIGHT	45-04-06.000N 083-24-32.000W	F R	76 23		Orange and white striped daymark on skeleton tower.	Private aid.
11387	LAFARGE CORPORATION CHANNEL RANGE REAR LIGHT L233 yards, 344° from front light.	45-04-14.000N 083-24-32.500W	F R	109 33		Orange and white stiped daymark on skeleton tower.	Private aid.
11388.1	- Buoy 2	45-02-40.050N 083-23-47.000W				Red nun.	Private aid.
11388.2	- Buoy 3	45-02-45.000N 083-23-58.000W				Green can.	Private aid.
11388.3	- Buoy 4	45-02-45.000N 083-23-56.500W				Red nun.	Private aid.
11388.4	- Buoy 6	45-02-57.700N 083-24-01.500W				Red nun.	Private aid.
11388.5	- Buoy 7	45-03-14.300N 083-24-11.000W				Green can.	Private aid.
11388.6	- Buoy 8	45-03-14.800N 083-24-08.000W				Red nun.	Private aid.
11388.7	- Buoy 9	45-03-25.000N 083-24-14.600W				Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	HARRISVILLE TO FORTY MILE POINT (Chart 14864)						
	East Alpena Channel						
11388.8	- Buoy 10	45-03-25.500N 083-24-12.200W				Red nun.	Private aid.
11388.9	- Buoy 11	45-03-35.500N 083-24-19.000W				Green can.	Private aid.
11389	- Buoy 12	45-03-36.000N 083-24-16.500W				Red nun.	Private aid.
11389.1	- Buoy 13	45-03-45.800N 083-24-23.000W				Green can.	Private aid.
11389.2	- Buoy 14	45-03-46.000N 083-24-20.900W				Red nun.	Private aid.
11389.3	- Buoy 15	45-03-53.400N 083-24-26.100W				Green can.	Private aid.
	Alpena						
11390	- *Junction Lighted Buoy Al*	45-02-57.718N 083-24-04.930W	Fl (2+1)R 6s		4	Red with green band.	Replaced by nun from Dec. 1 to Apr. 28. AIS MMSI: 993672225
11395	- Channel Buoy 1	45-03-03.066N 083-24-22.158W				Green can.	
11400	- Channel Buoy 2	45-03-05.741N 083-24-20.695W				Red nun.	
11405	- Channel Buoy 3	45-03-13.154N 083-24-42.952W				Green can.	
11410	- Channel Buoy 4	45-03-15.031N 083-24-38.552W				Red nun.	
11415	- Channel Buoy 5	45-03-23.683N 083-25-02.328W				Green can.	
	Lafarge Corporation Channel						
11420	- Junction Buoy TB	45-03-26.286N 083-25-00.531W				Red and green bands.	
11425	- RANGE FRONT LIGHT	45-04-02.100N 083-25-02.000W	F G	22 7		Orange and white striped daymark on gray skeleton tower.	Private aid.
11430	- RANGE REAR LIGHT 133 yards, 358° from front light.	45-04-06.400N 083-25-00.700W	F G	38 12		Orange and white striped daymark on gray skeleton tower.	Private aid.
	East Alpena Channel						
	Thunder Bay National Marine Sanctuary						
11456	*TBNMS Wreck Mooring Lighted Buoy*	45-02-35.800N 083-14-22.500W	Q W			Mooring buoy.	"New Orleans" Private aid.
	HARRISVILLE TO FORTY MILE POINT (Chart 14864)						
11495	**Thunder Bay Island Light**	45-02-14.167N 083-11-39.325W	Fl G 10s	63 19	16	Conical tower with dwelling attached. 63	
11500	STONYCROFT POINT LIGHT	45-06-24.000N 083-18-30.000W	Q W	30 9		TR on red skeleton tower.	Maintained from Mar. 15 to Nov. 15. Private aid.
11505	*Nordmeer Wreck Lighted Buoy WR1* 1,470 feet, 102° from last reported positon of wreck.	45-08-08.560N 083-09-17.874W	Q G		4		RACON: N (- .) Maintained from Apr. 28 to Dec. 1. AIS MMSI: 993672237
11510	*NOAA Lighted Weather Buoy 45003*	45-21-01.484N 082-50-25.620W	Fl (4)Y 20s			Yellow, disc-shaped hull.	Maintained from May 14 to Nov 14 Aid maintained by National Oceanic and Atmospheric Administration.
11515	**Middle Island Light**	45-11-35.470N 083-19-15.701W	Fl W 10s	78 24	14	White conical tower with orange bands in middle with dwelling detached. 78	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	HARRISVILLE TO FORTY MILE POINT (Chart 14864)						
11520	*Middle Island Lighted Buoy 13*	45-11-13.000N 083-18-10.000W	Fl G 4s		5	Green.	Maintained from Apr. 28 to Dec. 1.
11525	ROCKPORT HARBOR CRIB LIGHT R	45-12-17.000N 083-22-54.000W	Fl W 4s	12 4		NB on red skeleton tower on crib.	Maintained from Apr. 15 to Nov. 1. Private aid.
11530	STONEPORT LIGHT	45-17-48.214N 083-25-08.717W	Al WR 10s			White cylindrical structure.	Maintained from Apr. 1 to Dec. 31. Private aid.
11540	Stoneport Buoy 3	45-19-51.600N 083-25-53.400W				Green can.	Maintained from Apr. 1 to Dec. 1. Private aid.
11545	Stoneport Buoy 5	45-19-56.400N 083-25-57.400W				Green can.	Maintained from Apr. 1 to Dec. 1. Private aid.
	Presque Isle Harbor						
11550	**Presque Isle Light**	45-21-23.359N 083-29-32.370W	Fl W 15s	123 38	22	123	
11560	- *Entrance Shoal Lighted Bell Buoy 2*	45-20-21.227N 083-27-51.199W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Dec. 1.
11565	- RANGE FRONT LIGHT	45-20-16.467N 083-29-25.106W	F G	23 7		KRW on skeleton tower.	Visible 14° each side of range line.
11570	- RANGE REAR LIGHT 744 feet, 273.9° from front light.	45-20-16.982N 083-29-35.918W	F G	50 15		KRW on skeleton tower.	Visible 14° each side of range line.
	Presque Isle Harbor Marina *Lights and buoys maintained from May 15 to Oct 1.*						
11574	*Presque Isle Harbor Marina Entrance Lighted Buoy 2*	45-20-18.130N 083-28-56.760W	Q R			Red.	Private aid.
11575	- *Entrance Lighted Buoy 3*	45-20-15.620N 083-29-05.640W	Q G			Green.	Private aid.
11580	- Entrance Buoy 4	45-20-19.600N 083-29-00.300W				Red nun.	Private aid.
11585	- Entrance Buoy 5	45-20-18.900N 083-29-07.900W				Green can.	Private aid.
11590	- Entrance Buoy 6	45-20-21.500N 083-29-04.500W				Red nun.	Private aid.
11595	- Entrance Buoy 7	45-20-21.800N 083-29-10.000W				Green can.	Private aid.
11595.5	- Entrance Buoy 8	45-20-22.800N 083-29-08.000W				Red nun.	Private aid.
11596	- Entrance Buoy 9	45-20-22.000N 083-29-12.000W				Green can.	Private aid.
11600	- ENTRANCE LIGHT 10	45-20-23.700N 083-29-08.500W	Fl W 2.5s	26 8		TR on post.	HORN: 1 blast ev 20s (2s bl). Private aid.
11605	- ENTRANCE LIGHT 11	45-20-24.000N 083-29-11.000W	Fl G 4s	26 8		SG on post.	Private aid.
	Calcite *Aids maintained from May 1 to Dec. 1.*						
11610	- BREAKWATER LIGHT 2	45-25-02.300N 083-46-24.000W	Iso R 4s	49 15		TR on skeleton tower.	HORN: 1 blast ev 20s (2s bl). Private aid.
11630	- INCOMING RANGE FRONT LIGHT	45-24-37.200N 083-47-11.500W	F R	30 9		White diamond daymark on conveyor house.	Private aid.
11635	- INCOMING RANGE REAR LIGHT 500 feet, 236° from front light.	45-24-36.000N 083-47-14.100W	F R	110 34		On side of brick house.	Private aid.
11640	- OUTGOING RANGE FRONT LIGHT	45-24-38.200N 083-47-06.700W	F G	52 16		Two lights, 10 feet apart horizontal.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE HURON				
	HARRISVILLE TO FORTY MILE POINT (Chart 14864)						
	Calcite						
	Aids maintained from May 1 to Dec. 1.						
11645	- OUTGOING RANGE REAR LIGHT 160 feet, 236° from front light.	45-24-35.600N 083-47-12.700W	F G	78 24		Box on conveyor structure.	Private aid.
	Rogers City						
	Buoys maintained from Jun. 1 to Oct. 1.						
11660	- *Harbor Channel Lighted Buoy 1*	45-25-26.700N 083-48-27.800W	Fl G 4s			Green.	Private aid.
11665	- *Harbor Channel Lighted Buoy 2*	45-25-27.200N 083-48-29.300W	Fl R 4s			Red.	Private aid.
11670	- *Harbor Channel Lighted Buoy 3*	45-25-24.600N 083-48-29.200W	Fl G 6s			Green.	Private aid.
11675	- *Harbor Channel Lighted Buoy 4*	45-25-25.100N 083-48-30.700W	Fl R 6s			Red.	Private aid.
11680	- *Harbor Channel Lighted Buoy 5*	45-25-22.400N 083-48-30.600W	Fl G 6s			Green.	Private aid.
11685	- *Harbor Channel Lighted Buoy 6*	45-25-22.900N 083-48-32.200W	Fl R 6s			Red.	Private aid.
11690	- *Harbor Channel Lighted Buoy 7*	45-25-20.900N 083-48-31.700W	Fl G 6s			Green.	Private aid.
11693	POLYCHROME LEADING LIGHT	45-25-12.000N 083-48-36.000W				68'	Red/Clear/Green Private aid.
11695	- HARBOR CHANNEL BREAKWATER LIGHT 8	45-25-22.500N 083-48-33.200W	Fl R 2.5s	25 8		TR on pole.	Private aid.
11700	- HARBOR CHANNEL BREAKWATER LIGHT 9	45-25-20.900N 083-48-35.000W	Fl G 2.5s	25 8		SG on pole.	Private aid.
11715	**Forty-Mile Point Light**	45-29-10.228N 083-54-49.063W	Iso W 6s	66 20	16	White square brick tower on dwelling. 66	
			STRAITS OF MACKINAC				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
11720	HAMMOND BAY HARBOR OF REFUGE EAST BREAKWATER LIGHT	45-35-37.457N 084-09-44.651W	Fl G 2.5s	25 8	5	SG on post.	
11725	HAMMOND BAY HARBOR OF REFUGE WEST BREAKWATER LIGHT	45-35-33.771N 084-09-44.500W	Fl R 4s	25 8	4	TR on post.	
11730	**Spectacle Reef Light** Marks west side of reef.	45-46-22.892N 084-08-16.802W	Fl R 5s	86 26	11	Gray conical tower on square concrete pier. 86	
11735	Raynolds Reef Buoy 1	45-46-32.446N 084-12-01.360W				Green can.	
11740	Raynolds Reef Buoy 2	45-46-29.845N 084-13-46.866W				Red nun.	
11745	*Cordwood Point Lighted Buoy 1* Marks north side of shoal.	45-40-51.841N 084-18-06.483W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to May. 01.
11750	POE REEF LIGHT	45-41-41.198N 084-21-43.598W	Iso W 2s	71 22	9	Square tower with white and black bands on concrete crib.	RACON: Z (- - . .) HORN:1 blast ev 30s (3s bl). Operates year round.
11760	Poe Reef Buoy 2	45-41-30.342N 084-21-34.198W				Red nun.	
11765	**Fourteen Foot Shoal Light**	45-40-47.604N 084-26-03.784W	Oc W 4s	51 16	13	White conical tower, square structure on concrete crib. 51	HORN: 1 blast ev 15s (2s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
11770	Fourteen Foot Shoal Buoy 3	45-41-00.044N 084-26-14.918W				Green can.	
11775	BOIS BLANC TOWNSHIP DOCK LIGHT	45-43-36.000N 084-27-03.000W	Q G	17 5		On pile.	Maintained from May 1 to Dec. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
	Cheboygan						
11776	Leviathan Wreck Mooring Buoy	45-39-41.940N 084-26-05.760W					Private aid.
11777	*Genesee Chief Wreck Mooring Buoy*	45-39-44.220N 084-26-09.480W					Private aid.
11778	*Jenny Lynn Lighted Wreck Buoy 1*	45-39-12.600 N 084-26-04.000 W	Q G		3	Green.	Maintained from May 14 to Oct. 14.
11780	- *River Entrance Lighted Buoy 2*	45-39-57.831N 084-27-22.684W	Q R		4	Red.	Replaced by nun Dec. 07 to Apr. 28.
11785	- River Entrance Buoy 3	45-39-52.018N 084-27-23.729W				Green can.	
11790	- RIVER RANGE FRONT LIGHT	45-38-50.698N 084-28-22.029W	F R	48 15		KRW on building.	Visible 4° each side of range line. Lighted throughout 24 hours.
11795	- RIVER RANGE REAR LIGHT 1,119 feet, 212.7° from front light.	45-38-41.407N 084-28-30.538W	F R	83 25		KRW on skeleton tower.	Visible 4° each side of range line. Lighted throughout 24 hours.
11800	**- River Light 4**	45-39-28.123N 084-27-50.155W	Fl R 4s	25 8	10	TR on white cylindrical tower. 26	
	MICHIGAN INLAND ROUTE (Chart 14886)						
	Cheboygan River						
11806	- Buoy 1	45-38-08.566N 084-28-49.938W					Maintained from May 15 to Oct 15.
11810	- Daybeacon 3	45-38-06.778N 084-28-54.356W				SG on pile.	
11815	- Daybeacon 5	45-36-16.967N 084-27-52.293W				SG on pile.	
11820	- Daybeacon 6	45-36-06.752N 084-27-51.998W				TR on pile.	
11825	- Daybeacon 7	45-35-58.998N 084-27-51.731W				SG on pile.	
11830	- Daybeacon 9	45-35-55.872N 084-27-53.831W				SG on pile.	
11835	- Daybeacon 11	45-35-50.016N 084-28-02.094W				SG on pile.	
11840	- Daybeacon 12	45-35-50.418N 084-28-03.053W				TR on pile.	
11845	- Daybeacon 13	45-35-42.829N 084-28-06.040W				SG on pile.	
11850	- Daybeacon 14	45-35-43.282N 084-28-06.717W				TR on pile.	
11855	- Daybeacon 15	45-35-41.381N 084-28-14.859W				SG on pile.	
11860	- Daybeacon 16	45-35-42.188N 084-28-15.102W				TR on pile.	
11865	- Daybeacon 17	45-35-43.072N 084-28-21.077W				SG on pile.	
11875	- Daybeacon 19	45-35-08.849N 084-29-00.037W				SG on pile.	
11880	- Daybeacon 20	45-35-07.355N 084-29-00.585W				TR on pile.	
11885	- Daybeacon 21	45-35-03.594N 084-29-04.330W				SG on pile.	
	Mullett Lake						
11890	- LIGHT 21A	45-34-34.068N 084-29-17.549W	Fl G 4s	24 7	4	SG on pole.	
11895	- LIGHT 23	45-34-29.144N 084-29-19.930W	Fl G 6s	16 5	3	SG on dolphin.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	MICHIGAN INLAND ROUTE (Chart 14886)						
	Mullett Lake						
11900	- *Lighted Buoy 24*	45-33-04.764N 084-30-27.378W	Fl R 4s		3	Red.	Maintained from May 15 to Oct. 15.
11905	ALOHA STATE PARK NORTH JETTY LIGHT	45-31-05.000N 084-28-05.000W	Fl G 2.5s	16 5		On pile.	Maintained from May 1 to Dec. 1. Private aid.
11910	ALOHA STATE PARK SOUTH JETTY LIGHT	45-31-03.000N 084-28-04.000W	Fl R 2.5s	16 5		On pile.	Maintained from May 1 to Dec. 1. Private aid.
11915	- *Lighted Buoy 24A*	45-27-08.184N 084-34-31.320W	Fl R 4s		3	Red.	Maintained from May 15 to Oct. 15.
	Indian River						
11920	- Buoy 25	45-26-56.907N 084-34-42.919W				Green can	Maintained from May 14 to Oct. 14.
11925	- Daybeacon 27	45-26-51.087N 084-34-51.032W				SG on pile.	
11930	- Daybeacon 27A	45-26-48.530N 084-34-50.254W				SG on pile.	
11935	- Daybeacon 28	45-26-51.767N 084-34-51.819W				TR on pile.	
11940	- Daybeacon 29	45-26-46.171N 084-34-50.435W				SG on pile.	
11945	- Daybeacon 30	45-26-41.716N 084-35-02.641W				TR on pile.	
11950	- Daybeacon 31	45-26-38.450N 084-35-02.484W				SG on pile.	
11955	- Daybeacon 32	45-26-38.287N 084-35-03.105W				TR on pile.	
11960	- Daybeacon 34	45-26-34.923N 084-34-59.773W				TR on pile.	
11965	- Daybeacon 35	45-26-33.530N 084-34-54.289W				SG on pile.	
11970	- Daybeacon 37	45-26-31.105N 084-34-51.020W				SG on pile.	
11975	- Daybeacon 39	45-26-23.763N 084-34-55.226W				SG on pile.	
11976	- Daybeacon 39A	45-26-23.173N 084-34-59.867W				SG on pile.	
11980	- Daybeacon 40	45-26-26.238N 084-35-07.785W				TR on pile.	
11985	- Daybeacon 41	45-26-25.247N 084-35-08.948W				SG on pile.	
11990	- Daybeacon 42	45-26-24.825N 084-35-10.346W				TR on pile.	
11995	- Daybeacon 43	45-26-16.260N 084-35-09.134W				SG on pile.	
12000	- Daybeacon 44	45-26-14.803N 084-35-11.501W				TR on pile.	
12005	- Daybeacon 45	45-26-12.860N 084-35-13.332W				SG on pile.	
12010	- Daybeacon 46	45-26-12.956N 084-35-24.695W				TR on pile.	
12015	- Daybeacon 47	45-26-12.198N 084-35-24.417W				SG on pile.	
12020	- Daybeacon 48	45-26-11.582N 084-35-27.596W				TR on pile.	
12025	- Daybeacon 50	45-26-09.258N 084-35-26.141W				TR on pile.	
12030	- Daybeacon 52	45-26-07.197N 084-35-20.378W				TR on pile.	
12035	- Daybeacon 53	45-26-05.892N 084-35-19.723W				SG on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	MICHIGAN INLAND ROUTE (Chart 14886)						
	Indian River						
12040	- Daybeacon 54	45-26-03.071N 084-35-29.306W				TR on pile.	
12045	- Daybeacon 55	45-25-57.875N 084-35-29.899W				SG on pile.	
12050	- Daybeacon 57	45-25-54.902N 084-35-31.825W				SG on pile.	
12055	- Daybeacon 58	45-25-50.960N 084-35-46.503W				TR on pile.	
12060	- Daybeacon 60	45-25-42.072N 084-35-59.094W				TR on pile.	
12065	- Daybeacon 61	45-25-35.243N 084-36-00.968W				SG on pile.	
12070	- Daybeacon 62	45-25-33.651N 084-36-06.387W				TR on pile.	
12075	- Daybeacon 63	45-25-24.027N 084-36-06.401W				SG on pile.	
12080	- Daybeacon 66	45-25-17.229N 084-36-14.800W				TR on pile.	
12085	- Daybeacon 67	45-25-04.746N 084-36-15.066W				SG on pile.	
12090	- Daybeacon 68	45-25-02.103N 084-36-21.598W				TR on pile.	
	Burt Lake						
12095	- LIGHT 70	45-24-37.000N 084-37-27.000W	Fl R 4s	15 5	4	TR on pile.	
12100	- Obstruction Buoy	45-24-10.752N 084-38-14.034W				White with orange bands.	Maintained from May 15 to Oct. 15. Worded: SUBMERGED OBJECT.
12105	- LIGHT 71	45-28-16.297N 084-43-22.204W	Fl G 4s	15 5	4	SG on pile.	
	MICHIGAN INLAND ROUTE (Chart 14886)						
12110	Crooked River Daybeacon 73	45-28-13.605N 084-43-38.958W				SG on pile.	
12115	Crooked River Daybeacon 75	45-28-16.497N 084-43-56.316W				SG on pile.	
	Crooked Lake *Buoys maintained from May 7 to Nov. 1.*						
12120	- LIGHT 77	45-25-50.182N 084-47-17.155W	Fl G 4s	15 5	3	SG on pile.	
12125	- Daybeacon 79	45-25-25.626N 084-47-29.063W				SG on pile.	
12130	- Daybeacon 80	45-25-26.401N 084-47-30.021W				TR on pile.	
12135	PICKEREL CHANNEL ENTRANCE LIGHT 2	45-24-57.144N 084-47-42.830W	Fl R 4s	15 5	3	TR on pile.	
12140	- Daybeacon 81	45-25-05.762N 084-48-07.694W				SG on pile.	
12150	- Daybeacon 83	45-25-08.614N 084-48-31.413W				SG on pile.	
12155	- Daybeacon 84	45-25-09.102N 084-48-31.320W				TR on pile.	
12160	- Daybeacon 85	45-25-09.868N 084-48-48.824W				SG on pile.	
12165	- Daybeacon 86	45-25-10.506N 084-48-48.684W				TR on pile.	
12170	- Daybeacon 87	45-25-11.605N 084-49-05.606W				SG on pile.	
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
12175	Cheboygan Buoy 5	45-41-15.077N 084-27-22.619W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
12180	*Cheboygan Traffic Lighted Bell Buoy*	45-42-14.510N 084-28-18.242W	Mo (A) W		4	Red and white stripes.	NOTE: Vessels are requested to leave buoy on porthand in passing. Maintained from May. 01. to Dec. 7.
12182	*St. Andrew Wreck Mooring Buoy*	45-42-03.000N 084-31-48.660W					Private aid.
12185	Zela Shoal Buoy 6 Marks west side of shoal.	45-46-29.546N 084-33-54.651W				Red nun.	
			LAKE MICHIGAN				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
12191	EAST BREAKWATER LIGHT 1	45-46-44.200N 084-34-13.700W	Fl G 2.5s				Maintained from May 1 to Oct. 15. Private aid.
12192	WEST BREAKWATER LIGHT 2	45-46-43.300N 084-43-10.000W	Fl R 2.5s				Maintained from May 1 to Oct. 15. Private aid.
			STRAITS OF MACKINAC				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
12195	MACKINAW CITY HARBOR ENTRANCE LIGHT 1	45-46-53.100N 084-43-12.500W	Fl G 2.5s	25 8	5	SG on pile.	
12200	MACKINAW CITY HARBOR ENTRANCE LIGHT 2	45-46-51.372N 084-43-16.662W	Fl R 4s	25 8	4	TR on pile.	
12201	*Straits State Harbor Lighted Buoy A*	45-46-43.980N 084-43-07.386W	Q R				Private aid.
			LAKE MICHIGAN				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
12201.1	*Straits State Harbor Lighted Buoy B*	45-46-42.200N 084-43-07.000W	Q G				Maintained from May. 1 to Oct. 1. Private aid.
			STRAITS OF MACKINAC				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
	North End of Lake Huron						
12205	**Martin Reef Light** Marks south side of reef.	45-54-47.292N 084-08-54.950W	Fl R 10s	65 20	13	White square tower on concrete crib. 65	HORN: 1 blast ev 30s (3s bl). Maintained from Apr. 01 to Nov. 01
12210	*Pomeroy Reef Lighted Gong Buoy 2PR* Marks west side of Pomeroy Reef.	45-55-27.500N 084-12-32.824W	Fl R 4s		4	Red.	Maintained from May 1 to Dec 01.
12215	Tobin Reef Buoy 1 Marks northwest side of reef.	45-56-29.722N 084-12-16.659W				Green can.	
	LES CHENEAUX ISLANDS (Chart 14885)						
12220	**Crow Island Leading Light**	45-58-06.000N 084-14-24.000W	Iso W 6s	31 9	11	Black rectangular daymark on gray tower. 32	
12222	*Les Cheneaux Island Lighted Buoy 2*	45-56-29.900N 084-13-14.000W	Fl R 6s		4	Red.	Replaced by nun from Dec. 1 to May 1.
12225	*Les Cheneaux Island Lighted Buoy 3*	45-56-54.700N 084-14-27.800W	Fl G 6s		4	Green.	Replaced by can from Dec. 1 to May 1.
12230	*Les Cheneaux Island Lighted Buoy 4*	45-57-25.700N 084-13-49.000W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 1 to May 1.
12235	*Les Cheneaux Island Lighted Buoy 5*	45-57-36.000N 084-14-23.000W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 1 to May 1.
12240	*Port Dolomite Lighted Buoy 7*	45-58-50.676N 084-16-26.013W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to May 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	LES CHENEAUX ISLANDS (Chart 14885)						
12243	Port Dolomite Buoy 9	45-58-54.300N 084-16-59.500W				Green can.	
12245	MCKAY BAY RANGE FRONT LIGHT	45-59-57.000N 084-16-28.000W	F R	23 7		NR on white structure.	Maintained from Apr. 1 to Dec. 1. Private aid.
12250	MCKAY BAY RANGE REAR LIGHT 600 feet, 309° from front light.	45-59-05.000N 084-16-00.000W	F R	58 18		NR on white structure.	Maintained from Apr. 1 to Dec. 1. Private aid.
12260	*Penny Island Point Lighted Buoy 1* Marks shoal.	45-56-52.765N 084-17-06.292W	Fl G 4s		4	Green.	Maintained from May 14 to Oct. 21.
12265	Scammons Harbor Buoy 3	45-57-35.247N 084-17-40.959W				Green can.	Maintained from May 14 to Oct. 21.
12270	*Scammons Harbor Lighted Buoy 4*	45-57-56.964N 084-17-58.185W	Fl R 2.5s		4	Red.	Maintained from May 14 to Oct. 21.
12275	ISLE ISIDORE LIGHT	45-58-12.000N 084-18-18.000W	Fl W 4s	15 5		White triangular tower.	Maintained from Jul. to Sep. Private aid.
	Cedarville East Channel *Buoys maintained from May 14 to Oct. 21.*						
12280	- Buoy 5	45-58-52.540N 084-19-38.937W				Green can.	
12285	- Buoy 6	45-59-16.504N 084-20-00.115W				Red nun.	
12290	- *Lighted Buoy 7*	45-59-15.914N 084-20-01.571W	Fl G 4s		3	Green	
12295	- Buoy 8	45-59-30.498N 084-20-22.117W				Red nun.	
12300	- Buoy 9	45-59-29.756N 084-20-22.969W				Green can.	
12305	- *Lighted Buoy 10*	45-59-39.987N 084-20-45.245W	Q R		3	Red.	
12310	- Buoy 11	45-59-37.858N 084-20-46.014W				Green can.	
12315	- Buoy 12	45-59-38.105N 084-21-00.462W				Red nun.	
12320	- Buoy 13	45-59-36.910N 084-21-00.517W				Green can.	
	Les Cheneaux Islands Middle Entrance *Buoys maintained from May 14 to Oct. 21.*						
12325	- Buoy 1 Marks southeast side of shoal.	45-56-57.662N 084-20-14.096W				Green can.	Maintained year round.
12330	- Buoy 3	45-57-04.197N 084-20-34.475W				Green can.	Maintained year round.
12335	- Buoy 4	45-57-25.616N 084-21-13.170W				Red nun.	
12340	- *Lighted Buoy 5*	45-57-24.800N 084-21-14.300W	Fl G 2.5s		3	Green.	
12345	- Buoy 7	45-57-28.669N 084-21-21.198W				Green can.	
12350	- Buoy 8	45-57-39.985N 084-21-32.103W				Red nun.	
12355	- *Lighted Buoy 10*	45-57-50.318N 084-21-45.880W	Q R		3	Red.	
12360	Goose Island Buoy 1	45-54-09.892N 084-25-10.865W				Green can.	Maintained year round.
12365	Goose Island Shoal Buoy 1	45-53-39.846N 084-28-45.261W				Green can.	Maintained year round.
12370	*Goose Island Shoal Lighted Buoy 2* Marks northwest side of shoal.	45-54-10.316N 084-29-45.620W	Fl R 4s		4	Red.	Replaced by nun from Oct. 21 to May 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	LES CHENEAUX ISLANDS (Chart 14885)						
	Les Cheneaux Islands West Entrance						
	Buoys maintained from May 14 to Oct. 21.						
12375	- *Lighted Buoy 1* Marks shoal.	45-57-51.733N 084-27-04.928W	Fl G 4s		4	Green.	
12380	- *Lighted Buoy 2* Marks northwest side of shoal.	45-58-59.657N 084-27-10.148W	Fl R 4s		4	Red.	
12385	- *Lighted Buoy 3* Marks shoal.	45-59-39.071N 084-26-42.131W	Fl G 4s		4	Green.	
12390	- *Lighted Buoy 4* Marks west side of shoal.	45-59-57.488N 084-26-23.638W	Fl R 4s		4	Red.	
12395	- Buoy 5	46-00-12.650N 084-26-10.270W				Green can.	
12400	- Buoy 6	45-59-57.840N 084-25-53.021W				Red nun.	
12405	- Buoy 8	45-59-46.159N 084-25-36.566W				Red nun.	
	Mackinac Bay Passage						
12410	- *Lighted Buoy 10*	45-59-19.602N 084-24-08.999W	Fl R 2.5s		3	Red.	
12415	- Buoy 11	45-59-21.483N 084-24-13.312W				Green can.	
12420	- Buoy 12	45-59-32.346N 084-24-02.902W				Red nun.	
12425	- Buoy 13	45-59-35.087N 084-24-04.809W				Green can.	
12430	- Buoy 14	45-59-33.706N 084-23-58.672W				Red nun.	
12435	- Buoy 15	45-59-35.274N 084-23-58.134W				Green can.	
12440	- Buoy 16	45-59-21.841N 084-23-32.577W				Red nun.	
12441	- Buoy 16A	45-59-20.460N 084-23-22.140W				Red nun.	
12445	- Buoy 17	45-59-23.228N 084-23-30.160W				Green can.	
12450	- Buoy 18	45-59-17.626N 084-23-13.652W				Red nun.	
12455	- Buoy 19	45-59-18.308N 084-23-11.146W				Green can.	
12460	- Buoy 20	45-59-05.555N 084-22-58.655W				Red nun.	
12465	- Buoy 21	45-59-05.967N 084-22-57.062W				Green can.	
12470	- Buoy 22	45-58-53.827N 084-22-44.701W				Red nun.	
12475	- Buoy 23	45-58-52.660N 084-22-39.619W				Green can.	
	Muscallonge Bay						
	Buoys maintained from May 14 to Oct. 21.						
12480	- Buoy 24	45-58-35.521N 084-22-12.179W				Red nun.	
12485	- Buoy 25	45-58-36.716N 084-22-11.492W				Green can.	
12490	- Buoy 26	45-58-27.007N 084-21-56.879W				Red nun.	
12495	- Buoy 27	45-58-10.349N 084-21-14.414W				Green can.	
12500	- *Lighted Buoy 29*	45-58-09.966N 084-20-55.105W	Fl G 4s		3	Green.	
	Cedarville West Channel						
	Buoys maintained from May 14 to Oct. 21.						
12505	- Buoy 30	45-58-49.915N 084-20-50.106W				Red nun.	
12510	- *Lighted Buoy 31*	45-58-50.959N 084-20-54.363W	Fl G 4s		3	Green.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	LES CHENEAUX ISLANDS (Chart 14885)						
	Cedarville West Channel						
	Buoys maintained from May 14 to Oct. 21.						
12515	- Buoy 32	45-59-16.283N 084-21-21.200W				Red nun.	
12520	*- Lighted Buoy 33*	45-59-17.189N 084-21-24.304W	Q G		3	Green.	
12525	- Buoy 34	45-59-28.972N 084-21-24.359W				Red nun.	
12530	- Buoy 35	45-59-30.428N 084-21-26.199W				Green can.	
12532	*Ailes Point Lighted Danger Buoy*	45-59-34.132N 084-21-17.582W	Fl W 2.5s		4	White with orange bands.	"DANGER ROCKS"
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
12535	BOIS BLANC LIGHT	45-48-40.755N 084-25-14.640W	Fl W 2.5s	32 10	7	White cylindrical tower.	Visible from 101° to 311°.
	Round Island Passage						
12540	*Mission Point Lighted Bell Buoy 2* Marks shoal.	45-50-55.447N 084-35-56.658W	Q R		4	Red.	Replaced by nun from Dec. 7 to Apr. 28.
12545	MACKINAC ISLAND EAST BREAKWATER LIGHT 2	45-50-45.955N 084-36-32.865W	Fl R 2.5s	25 8	5	TR on white pile.	
12550	MACKINAC ISLAND WEST BREAKWATER LIGHT 1	45-50-39.396N 084-36-51.814W	Fl G 2.5s	33 10	4	SG on post.	
12565	PASSENGER PIERHEAD LIGHT	45-50-39.300N 084-36-27.700W	F R	20 6		On white post.	Maintained from May 1 to Oct. 1. Private aid.
12570	COAL DOCK PIERHEAD LIGHT	45-50-54.000N 084-36-59.100W	F W	14 4		On white post.	Maintained from May 1 to Oct. 1. Private aid.
12575	*Round Island Lighted Buoy 3* Marks shoal.	45-50-27.447N 084-36-31.060W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 28. AIS MMSI: 993672251
12580	**- Light**	45-50-34.928N 084-36-55.431W	Fl R 5s	71 22	11	Lighthouse. 71	RACON: X (- . . . -) HORN: 1 blast ev 30s (3s bl). Operates by keying the microphone 5 times on VHF-FM channel 83A.
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
12583	*William H. Barnum Wreck Mooring Buoy*	45-44-42.900N 084-37-51.480W					Private aid.
	Round Island Passage						
12585	**Old Round Island Point Light**	45-50-12.000N 084-37-00.000W	Fl (2)W 10s	53 16		Red and white conical tower.	Private aid.
12590	*Round Island Shoal Lighted Buoy 5* Marks shoal.	45-50-17.646N 084-37-05.661W	Q G		4	Green.	Replaced by can from Dec. 7 to Apr. 28. AIS MMSI: 993672252
12595	Majors Shoal East Buoy 1 Marks east side of shoal.	45-48-59.945N 084-39-05.067W				Green can.	Replaced by smaller can from Dec. 7 to Apr. 28.
12600	*Majors Shoal Lighted Buoy 3* Marks west side of shoal.	45-49-01.745N 084-39-51.469W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
12605	*North Graham Shoal Lighted Bell Buoy 3* Marks east side of shoal.	45-50-14.545N 084-41-12.773W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
12607	ST. IGNACE COAST GUARD SLIP LIGHT	45-51-19.700N 084-42-09.000W	Fl W 6s	16 5	3	NW on dolphin.	
12608	**Wawatam Lighthouse**	45-51-57.370N 084-42-55.550W	Fl W 5s			Lighthouse 62	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAITS OF MACKINAC				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
	Round Island Passage						
12609	ST. IGNACE MARINA ENTRANCE LIGHT 1	45-51-57.400N 084-43-03.400W	Fl G 2.5s	25 8		SG on while pole.	Private aid.
12609.5	ST. IGNACE MARINA ENTRANCE LIGHT 2	45-51-58.300N 084-43-00.600W	Fl R 2.5s	25 8		TR on white pole.	Private aid.
12610	ST IGNACE MARINA NORTHEAST BREAKWALL LIGHT	45-52-04.300N 084-43-04.000W	Fl Y 2.5s	10 3		NY on white pole.	Private aid.
12615	NORTHWESTERN DOCK LIGHT	45-52-28.200N 084-42-53.000W	Q W	20 6		On middle of three mooring dolphins.	Maintained from Apr. 15 to Dec. 15. Private aid.
	Mackinaw Bridge *Buoys maintained from Apr. 28 to Dec. 7.*						
12625	*Mackinac Bridge Lighted Bell Buoy 1*	45-48-29.344N 084-42-26.076W	Fl G 4s		5	Green.	Maintained from May. 01 to Dec. 07. AIS MMSI: 993672140.
12630	*Mackinac Bridge Lighted Gong Buoy 2*	45-49-07.845N 084-42-27.276W	Fl R 4s		4	Red.	Maintained from May. 01 to Dec. 07. AIS MMSI: 993672141.
12635	South Graham Shoal Buoy 2A Marks south side of shoal.	45-49-31.545N 084-42-20.276W				Red nun.	
12640	**Mackinac Bridge Fog Signal**	45-48-55.100N 084-43-40.900W				On center span of Mackinac Bridge.	HORN: 2 blasts ev 20s (2s bl-2s si-2s bl-14s si). Private aid.
12645	*Mackinac Bridge Lighted Bell Buoy 3*	45-48-38.744N 084-44-08.481W	Fl G 2.5s		4	Green.	Maintained from May. 01 to Dec. 07. AIS MMSI: 993672142.
12650	*Mackinac Bridge Lighted Gong Buoy 4*	45-49-15.544N 084-44-08.481W	Fl R 2.5s		4	Red.	Maintained from May. 01 to Dec. 07. AIS MMSI: 993672143.
12651	**McGulpin Point Lighthouse**	45-47-13.128N 084-46-21.756W	Fl W 4s			108	Private aid.
12653	*Michigan Tech Weather Buoy*	45-49-30.948N 084-46-19.806W	Q Y				Private aid.
			LAKE HURON, CANADA				
	PORT HURON TO PTE AUX BARQUES (Chart 14862)						
	East Side						
12660	**Goderich (Main) Light (C)**	43-44-30.000N 081-43-36.000W	Fl (2) W 25s 0.5s fl 5.5s ec. 0.5s fl 18.5s ec.	140 43	18	White square tower with red top.	Seasonal.
12670	**Point Clark Light (C)**	44-04-24.000N 081-45-24.000W	Fl W 3.5s	93 28	16	White circular tower.	Seasonal.
12675	**Cove Island Light (C)**	45-19-36.000N 081-44-06.000W	Fl W 5s	101 31	18	White circular tower with dwelling attached.	Seasonal. Emergency light.
12685	**Great Duck Island Light (C)**	45-38-30.000N 082-57-48.000W	Fl (3) W 15s fl 2.5s ec. fl 2.5s ec. fl 10s ec.	108 33		White octagonal tower.	Seasonal. Emergency light.
			ST. MARYS RIVER				
	DE TOUR PASSAGE TO MUNUSCONG LAKE (Chart 14882)						
	Potagannissing Bay						
12690	BURNT ISLAND REEF LIGHT 1	46-06-27.000N 083-49-43.000W	Fl G 4s	40 12	5	SG on skeleton tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	DE TOUR PASSAGE TO MUNUSCONG LAKE (Chart 14882)						
	Potagannissing Bay						
12695	*Bacon Shoal Lighted Buoy 3*	46-03-36.346N 083-49-56.319W	Fl G 2.5s		4	Green.	Replaced by can from Oct. 28 to May 14.
12700	Big Trout Island Buoy 4	46-03-19.624N 083-50-21.649W				Red nun.	
12704	Bow Island Buoy 1	46-02-00.791N 083-49-29.577W				Green can.	
12705	Sturgeon Bay Shoal Buoy 2	46-01-27.000N 083-48-45.000W				Red nun.	
12707	Gull Island Buoy 3	46-01-55.000N 083-47-27.000W				Green can.	
12710	Cheney Shoal Buoy 5	46-02-03.200N 083-46-03.150W				Green can.	Maintained from May 14 to Oct. 28.
12715	*Wreck Island Lighted Buoy 6*	46-01-58.575N 083-45-51.314W	Fl R 2.5s		3	Red.	Maintained from May 14 to Oct. 28.
12720	Howard Island Buoy 7	46-01-53.809N 083-45-15.716W				Green can.	Maintained from May 14 to Oct. 28.
	Drummond Island Shoal Yacht Haven Channel *Aids maintained from May 15 to Oct. 15.*						
12725	- Buoy 1	46-01-45.000N 083-44-50.000W				Green can.	Private aid.
12730	- Buoy 2	46-01-45.000N 083-44-56.100W				Red nun.	Private aid.
12735	- Buoy 3	46-01-34.200N 083-44-50.000W				Green can.	Private aid.
12740	- Buoy 4	46-01-34.000N 083-44-54.900W				Red nun.	Private aid.
12743	Roggs Island Buoy 9	46-02-05.937N 083-44-26.873W				Green can.	Maintained from May 14 to Oct. 28.
12745	Rogg Island Buoy 8	46-02-01.304N 083-44-34.942W				Red nun.	Maintained from May 14 to Oct. 28.
12746	Quarry Island Buoy 10	46-02-00.003N 083-44-01.441W				Red nun.	Maintained from May 14 to Oct. 28.
12750	Quarry Island Buoy 11	46-02-08.643N 083-43-56.405W				Green can.	Maintained from May 14 to Oct. 28.
12751	Quarry Island Buoy 13	46-02-19.636N 083-43-52.124W				Green can.	Maintained from May 14 to Oct. 28.
12751.1	Fire Island Shoal Buoy	46-02-19.500 N 083-44-10.056 W					Maintained from May 14 to Oct. 28.
12752	La Pointe Island Buoy 14	46-02-20.395N 083-43-45.991W				Red nun.	Maintained from May 14 to Oct. 28.
12753	*Grape Island Lighted Buoy 16*	46-02-44.000N 083-43-48.500W	Fl R 4s		3	Red.	Maintained from May 14 to Oct. 28.
12755	Harbor Island Shoal Buoy 17	46-03-42.614N 083-44-08.197W				Green can.	Maintained from May 14 to Oct. 28.
12760	Propeller Island Shoal Buoy 19	46-04-44.529N 083-44-20.390W				Green can.	Maintained from May 14 to Oct. 28.
12762	Bruce Point Buoy 21	46-05-02.424N 083-44-26.537W				Green can.	Maintained from May 14 to Oct. 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	DE TOUR PASSAGE TO MUNUSCONG LAKE (Chart 14882)						
	Potagannissing Bay						
	Drummond Island Shoal Yacht Haven Channel *Aids maintained from May 15 to Oct. 15.*						
12763	Bruce Point Buoy 22	46-05-03.000N 083-44-08.000W				Red nun.	Maintained from May 14 to Oct. 28.
	Drummond Island - South Side						
12765	Big Shoal Buoy 2	45-54-24.197N 083-37-08.287W				Red nun.	
12770	**De Tour Reef Light**	45-56-56.788N 083-54-11.245W	Fl W 10s (R sector)	74 23	W 18 R 15	84	RACON: D (- . .) Red from 079.5° to 189.5°. HORN: 2 blasts ev 60s (3s bl-3s si-3s bl-51s si). Operates Apr. 1 to Nov. 1. Fog signal operates by keying VHF FM Marine radio channel 83A five times.
	Whitney Bay *Aids maintained from Jun. 1 to Oct. 1.*						
12780	- East Entrance Buoy 2	45-57-16.000N 083-51-53.200W				Red nun.	Private aid.
12785	- East Entrance Buoy 4	45-57-31.000N 083-51-32.000W				Red nun.	Private aid.
12790	- East Entrance Buoy 6	45-58-23.700N 083-51-35.500W				Red nun.	Private aid.
12795	- West Entrance Buoy 1	45-57-47.000N 083-52-58.800W				Green can.	Private aid.
12800	- West Entrance Buoy 3	45-57-59.000N 083-52-27.900W				Green can.	Private aid.
12805	- West Entrance Buoy 4	45-58-10.900N 083-52-03.000W				Red nun.	Private aid.
12810	- West Entrance Buoy 5	45-58-31.000N 083-51-47.400W				Green can.	Private aid.
	De Tour Passage						
12815	- *Lighted Buoy 2*	45-56-34.371N 083-52-33.887W	Fl R 6s		5	Red.	Replaced by nun from Dec. 1 to May 1.
12820	- Buoy 3	45-57-45.000N 083-54-00.000W				Green can.	
12825	*Crab Island Shoal Lighted Bell Buoy 4* Marks west side of shoal.	45-57-36.244N 083-53-10.902W	Fl R 2.5s		5	Red.	Replaced by nun from Dec. 1 to May 1.
12830	Drummond Island Shoal Buoy 6	45-58-50.604N 083-53-00.947W				Red nun.	
12835	FRYING PAN ISLAND LIGHT 7	45-59-07.602N 083-53-40.944W	Q G	14 4	6	SG on post.	Higher intensity beam on bearing 176° and 356° diminishing around remainder of horizon.
12840	DETOUR HARBOR ENTRANCE LIGHT 2	45-59-44.203N 083-53-56.789W	Fl R 4s	28 9	4	TR on pile.	
12845	Drummond Island Shoal Buoy 8	45-59-14.821N 083-52-48.541W				Red nun.	
	Lower River						
12850	WATSONS REEFS LIGHT 9A	46-00-24.620N 083-53-58.154W	Fl G 4s	33 10	6	SG on post on tripod foundation.	Higher intensity beam upstream.
12855	Watson Reefs Buoy 9 Marks east side of reef.	46-00-16.872N 083-53-50.099W				Green can.	
12860	Watson Reefs Buoy 11	46-00-36.832N 083-54-05.420W				Green can.	
12865	*Pipe Island Shoal Lighted Buoy 1* Marks southeast side of shoal.	46-00-34.469N 083-53-17.128W	Fl G 2.5s		3	Green.	Replaced by can from Dec. 07 to May. 01. AIS MMSI: 993686002
12870	Sims Point Buoy 2	46-01-39.673N 083-51-03.751W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	DE TOUR PASSAGE TO MUNUSCONG LAKE (Chart 14882)						
	Lower River						
	Pipe Island						
12875	**- Light**	46-00-58.800N 083-53-57.500W	Fl W 5s	52 16	11	KRW on yellow octagonal tower with black skeleton superstructure.	
12880	- *Lighted Buoy 12*	46-00-57.011N 083-54-06.874W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to May 1.
12885	- TWINS LIGHT	46-01-33.929N 083-53-29.342W	Fl W 2.5s	27 8	9	NG on post.	
12890	- *Twins Lighted Buoy 3*	46-01-43.200N 083-53-24.780W	Q G		4	Green.	Replaced by can from Dec. 7 to May 1.
	Lower River						
12895	SQUAW ISLAND LIGHT 4	46-02-20.280N 083-54-13.620W	Fl R 2.5s	26 8	6	TR on post.	
12905	**Sweets Point Light 13** Marks north side of shoal.	46-02-19.389N 083-56-09.711W	Fl G 2.5s	20 6	10	White cylindrical tower with green stripe in middle.	Higher intensity beam on bearings 316° and 121° diminishing around remainder of horizon.
	Lime Island						
12907	- *Lighted Buoy 14*	46-03-17.333N 083-57-36.756W	Fl R 4s		3	Red.	Replaced by nun from Dec. 7 to May 1.
12910	- *Lighted Buoy 14A*	46-04-12.252N 084-00-23.536W	Fl R 4s		4	Red.	Replaced by nun from Dec. 7 to May 1.
12915	- *Traffic Lighted Buoy LI*	46-04-21.864N 084-00-59.206W	Mo (A) W		4	Red and white stripes.	Vessels are required to leave buoy to port when passing. AIS MMSI: 993686001
12920	- *Lighted Buoy 15*	46-05-06.545N 084-01-14.119W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to May 1.
12925	- COAL DOCK LIGHT	46-05-10.900N 084-00-45.000W	Oc Y 4s	27 8	4	On post.	
12930	- COAL DOCK PASSAGE LIGHT CD	46-05-17.766N 084-00-46.716W	Fl Y 6s	27 8	4	On post.	AIS MMSI: 993686000
12935	- *Lighted Buoy 16*	46-05-51.667N 084-00-49.774W	Fl R 4s		5	Red.	Replaced by nun from Dec. 7 to May 1.
	Lower River						
12940	ROUND ISLAND LIGHT	46-06-34.510N 084-01-10.030W	Fl W 2.5s (R sector)	28 9	W 7 R 6	NG on post.	Red from 145° to 186°. Obscured from 358° to 145°.
12945	*Round Island Lighted Buoy 17*	46-06-30.044N 084-01-01.152W	Fl G 4s		3	Green.	Replaced by can from Dec. 7 to May 1.
12950	Round Island Buoy 18	46-06-28.674N 084-00-43.650W				Red nun.	
12955	*Hay Point Reef Lighted Buoy 18A*	46-07-32.298N 084-00-32.602W	Fl R 4s		5	Red.	Replaced by nun from Dec. 7 to May 1. AIS MMSI: 993686003
	Point Aux Frenes						
12960	- LIGHT 19	46-07-48.481N 084-01-00.625W	Fl G 2.5s	33 10	7	White cylindrical tower with green band	
12965	- *Lighted Buoy 20*	46-07-57.594N 084-00-46.609W	Fl R 2.5s		3	Red.	Replaced by nun from Dec. 7 to May 1.
12975	- LIGHT 21	46-08-18.000N 084-01-18.000W	Q G	34 10	9	SG on post on concrete structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	DE TOUR PASSAGE TO MUNUSCONG LAKE (Chart 14882)						
	Point Aux Frenes						
12980	- *Lighted Buoy 22*	46-08-18.907N 084-01-00.237W	Fl R 4s		3	Red.	Replaced by nun from Dec. 7 to May 1. AIS MMSI: 993686004
12985	- *Lighted Buoy 23*	46-08-49.474N 084-02-18.975W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to May 1.
12990	- *Lighted Buoy 24*	46-08-57.558N 084-02-10.496W	Fl R 4s		5	Red.	Replaced by nun from Dec. 7 to May 1.
	Munuscong Lake						
12995	HAY POINT RANGE FRONT LIGHT (C)	46-07-42.000N 084-00-00.000W	F W	38 12		White daymark with orange stripe on square tower.	Seasonal.
13000	HAY POINT RANGE REAR LIGHT (C) 1,100 feet, 128º from front light.		F W	60 18		White daymark with orange stripe on square tower.	Seasonal
13005	- *Lighted Buoy 25*	46-09-35.862N 084-03-43.010W	Fl G 4s		5	Green.	Replaced by can from Dec 7 to May 1
13010	- *Lighted Buoy 26*	46-09-43.678N 084-03-34.044W	Fl R 4s		5	Red.	Replaced by nun from Dec. 7 to May 1.
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Munuscong Channel (Upbound)						
13015	WINTER POINT RANGE FRONT LIGHT	46-13-33.888N 084-08-38.727W	F W	46 14		KRW on white skeleton tower.	Visible 4° each side of range line. Lighted throughout 24 hours.
13025	WINTER POINT RANGE REAR LIGHT 3,903 feet, 322.1° from front light.	46-14-04.295N 084-09-12.837W	F W	82 25		KRW on white skeleton tower.	Visible 4° each side of range line. Lighted throughout 24 hours.
13030	- JUNCTION LIGHT ML	46-10-55.836N 084-05-45.270W	Fl (2+1)G 6s		8		AIS MMSI: 993686005
13035	- *Lighted Buoy 2*	46-11-00.955N 084-05-41.835W	Fl R 4s		5	Red.	Replaced by nun from Dec. 14 to Apr. 28.
13040	- Buoy 3	46-11-37.864N 084-06-32.122W				Green can.	
13045	- Buoy 4	46-11-41.050N 084-06-27.272W				Red nun.	
13050	- *Lighted Buoy 5*	46-12-02.125N 084-06-59.390W	Fl G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
13055	- *Lighted Buoy 6*	46-12-05.664N 084-06-54.611W	Q R		4	Red.	Year round lighted buoy
13060	- Buoy 7	46-12-21.889N 084-07-22.076W				Green can.	
13065	- *Lighted Buoy 8*	46-12-32.611N 084-07-04.613W	Q R		3	Red.	Year round lighted buoy
13070	- *Lighted Buoy 9*	46-12-44.270N 084-07-13.084W	Fl G 4s		4	Green.	Year round lighted buoy. AIS MMSI: 993686006
13075	- Buoy 10	46-13-15.129N 084-06-48.232W				Red nun.	
13080	- *Lighted Buoy 11*	46-13-17.474N 084-06-58.384W	Fl G 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
13085	- *Lighted Buoy 12*	46-13-48.436N 084-06-35.803W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Munuscong Channel (Upbound)						
13090	- *Lighted Buoy 13*	46-13-48.876N 084-06-44.874W	Fl G 4s		3	Green.	Replaced by can from Dec. 1 to Apr. 21.
13095	- Buoy 15	46-14-22.689N 084-06-29.969W				Green can.	
	Sailors Encampment Channel						
13100	UPBOUND RANGE FRONT LIGHT (C)	46-15-42.000N 084-05-54.000W	F W	76 23		White daymark with orange stripe on square tower.	
13105	UPBOUND RANGE REAR LIGHT (C) 2,183 feet, 017º from front light.		F W	104 32		White daymark with orange stripe on square tower.	
13110	*Everens Point Lighted Buoy Q16 (C)*	46-14-46.330N 084-06-12.566W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
13115	- *Lighted Buoy 17*	46-14-48.977N 084-06-18.277W	Fl G 4s		3	Green.	Replaced by can from Dec. 1 to Apr. 21.
13120	JOHNSON POINT LIGHT 19	46-15-17.705N 084-06-06.687W	Fl G 2.5s	29 9	7	SG on pile.	Higher intensity beam up and down stream.
13125	- *Lighted Buoy 21*	46-15-30.232N 084-06-10.393W	Q G		4	Green.	Year round lighted buoy. AIS MMSI: 993686009
13130	*Lighted Buoy Q22 (C)*	46-15-35.723N 084-06-02.419W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
13135	RAINS WHARF RANGE FRONT LIGHT (C)	46-15-18.000N 084-05-42.000W	F W	32 10		White daymark with orange stripe on circular tower.	Visible on range line only. Passing light F W, visible all around. Seasonal.
13140	RAINS WHARF RANGE REAR LIGHT (C) 880 feet, 134.9º from front light.		F W	53 16		White daymark with orange stripe on skeleton tower.	Seasonal.
13145	POINT OF WOODS RANGE FRONT LIGHT	46-16-19.421N 084-07-13.762W	F W	31 9		KRW on triangular skeleton tower.	Lighted throughout 24 hours.
13155	POINT OF WOODS RANGE REAR LIGHT 325 feet, 314.7° from front light.	46-16-21.679N 084-07-17.056W	F W	42 13		KRW on square skeleton tower.	Lighted throughout 24 hours.
13160	- Buoy 23	46-15-47.169N 084-06-35.384W				Green can.	
13165	- *Lighted Buoy 25*	46-16-00.951N 084-06-55.618W	Fl G 4s		4	Green.	Year round lighted buoy.
	Munuscong Channel						
13170	DARK HOLE EAST RANGE FRONT LIGHT	46-15-53.993N 084-06-54.783W	F G	40 12		KRG on square skeleton tower.	Range marks eastern half of channel. High intensity beam on range line. F G light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13175	DARK HOLE EAST RANGE REAR LIGHT 499 feet, 176.6° from front daybeacon.	46-15-49.072N 084-06-54.360W	F G	75 23		KRG on square skelton tower.	Range marks eastern half of channel. High intensity beam on range line. F G light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13180	DARK HOLE WEST RANGE FRONT LIGHT	46-15-54.855N 084-06-57.709W	Q W	38 12		KRW on square skeleton tower.	Range marks western half of channel. Visible 1.5° each side of range line. Lighted throughout 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Munuscong Channel						
13185	DARK HOLE WEST RANGE REAR LIGHT 424 feet, 176.6° from front light.	46-15-50.671N 084-06-57.356W	F W	73 22		KRW on square skeleton tower.	Range marks western half of channel. Visible 1.5° each side of range line. Lighted throughout 24 hours.
13190	HARWOOD POINT EAST RANGE FRONT LIGHT	46-19-17.250N 084-07-12.212W	F R	30 9		KRG on white cylindrical tower.	Range marks eastern half of channel. High intensity beam on range line. F R light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13195	HARWOOD POINT EAST RANGE REAR LIGHT 1,002 feet, 356.6° from front light.	46-19-27.128N 084-07-13.059W	F R	65 20		KRG on white cylindrical tower.	Range marks eastern half of channel. High intensity beam on range line. F R light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13200	HARWOOD POINT WEST RANGE FRONT LIGHT	46-19-17.272N 084-07-15.059W	F W	32 10		KRW on white cylindrical tower.	Range marks western half of channel. Visible 1.5° each side of range line. Lighted throughout 24 hours.
13205	HARWOOD POINT WEST RANGE REAR LIGHT 1,001 feet, 356.6° from front light.	46-19-27.138N 084-07-15.910W	F W	65 20		KRW on white cylindrical tower.	Range marks western half of channel. Visible 1.5° each side of range line. Lighted throughout 24 hours.
13210	- *Lighted Buoy 27*	46-16-12.173N 084-07-01.337W	Q G		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
13215	*Coyle Point Lighted Buoy Q28 (C)*	46-16-16.957N 084-06-53.620W	Q R			Red.	Spar; winter marker.
13217	- *Lighted Buoy 29*	46-16-28.383N 084-07-02.667W	Fl G 2.5s		3	Green.	Year round lighted buoy. AIS MMSI: 993686015
13220	- Buoy 31	46-16-51.967N 084-07-04.902W				Green can.	
13225	*Coyle Point North Lighted Buoy Q30 (C)*	46-16-51.555N 084-06-57.946W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
13235	- *Lighted Buoy 33*	46-17-26.457N 084-07-07.834W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
13240	*Green Point Lighted Buoy Q34 (C)*	46-17-26.367N 084-07-01.140W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
13245	- *Lighted Buoy 35*	46-18-00.947N 084-07-10.767W	Fl G 4s		4	Green.	Year round lighted buoy. AIS MMSI: 993686016
13250	- *Lighted Buoy Q36 (C)*	46-18-00.259N 084-07-03.331W	Fl R 4s			Red.	
13255	- LIGHT 39	46-18-33.612N 084-07-14.112W	Q G	30 9	5	SG on post on concrete cone.	
13256	Hen Island Daybeacon H	46-18-32.567N 084-07-52.930W				NB on skeleton tower.	
	Middle Neebish Channel						
13260	STRIBLING POINT UPBOUND RANGE FRONT LIGHT (C)	46-18-48.000N 084-06-54.000W	F W	64 20		White daymark with orange stripe on skeleton tower.	Seasonal.
13265	STRIBLING POINT UPBOUND RANGE REAR LIGHT (C) 3,154 feet, 111.9º from front light.		F W	100 30		White daymark with orange stripe on square skeleton tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Middle Neebish Channel						
13275	MIDDLE NEEBISH SOUTH RANGE FRONT LIGHT	46-19-56.372N 084-11-04.615W	Q W	22 7		KRW on red steel structure.	Visible 1.5° each side of range line.
13280	MIDDLE NEEBISH SOUTH RANGE REAR LIGHT 5,574 feet, 291.9° from front light.	46-20-16.783N 084-12-18.089W	F W	50 15		KRW on square skeleton tower.	Visible 1.5° each side of range line.
13285	- *Lighted Buoy 43*	46-18-57.395N 084-07-37.488W	Q G		4	Green.	Year round lighted buoy. AIS MMSI: 993686011
13290	Hardwood Point Junction Buoy HP	46-18-59.310N 084-07-19.269W				Red nun with green band.	
13295	- Buoy 45	46-19-10.642N 084-08-25.452W				Green can.	
13300	- Buoy 46	46-19-18.720N 084-08-28.860W				Red nun.	
13310	- *Lighted Buoy 49*	46-19-19.654N 084-08-57.633W	Fl G 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 21.
13315	- LIGHT 50	46-19-24.672N 084-08-54.282W	Fl R 4s	26 8	4	TR on post.	
13320	- Buoy 51	46-19-26.248N 084-09-21.824W				Green can.	
13325	- LIGHT 54	46-19-35.820N 084-09-34.500W	Fl R 4s	26 8	4	TR on post.	
13330	- Buoy 55	46-19-36.029N 084-09-57.248W				Green can.	
13335	- Buoy 57	46-19-41.354N 084-10-15.866W				Green can.	
13340	- LIGHT 58	46-19-46.920N 084-10-14.410W	Fl R 4s	20 6	4	TR on post.	
13345	- *Lighted Buoy 59*	46-19-47.994N 084-10-40.106W	Fl G 2.5s		4	Green.	Year round lighted buoy. AIS MMSI: 993686012
13350	- Buoy 60	46-19-54.433N 084-10-34.486W				Red nun.	
13353	- LIGHT 61	46-19-57.648N 084-11-03.114W	Q G	26 8	4	SG on post.	
	Lake Nicolet						
13355	LOWER NICOLET EAST RANGE FRONT LIGHT	46-19-29.250N 084-10-32.670W	F G	54 16		KRG on skeleton tower.	Range marks eastern half of channel. High intensity beam on range line. F G light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13360	LOWER NICOLET EAST RANGE REAR LIGHT 1,758 feet, 150.5° from front daybeacon.	46-19-14.146N 084-10-20.317W	F G	75 23		KRG on skeleton tower.	Range marks eastern half of channel. High intensity beam on range line. F G light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13365	LOWER NICOLET WEST RANGE FRONT LIGHT	46-19-28.617N 084-10-35.407W	F W	60 18		KRW on skeleton tower.	Range marks western half of channel. Visible 1.5° each side of range line. Lighted throughout 24 hours.
13370	LOWER NICOLET WEST RANGE REAR LIGHT 3,794 feet, 150.5° from front light.	46-18-56.025N 084-10-08.756W	F W	104 32		KRW on skeleton tower.	Range marks western half of channel. Visible 1.5° each side of range line. Lighted throughout 24 hours.
13375	MIDDLE NEEBISH LIGHT 62	46-20-07.212N 084-11-00.420W	Q R	34 10	5	TR on post.	AIS MMSI: 993686010

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Lake Nicolet						
13380	- *Lighted Buoy 63*	46-20-05.068N 084-11-08.106W	Fl G 2.5s		3	Green.	Replaced by can from Dec. 7 to Apr. 21.
13385	- *Lighted Buoy 64*	46-20-26.560N 084-11-17.323W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
13390	- *Lighted Buoy 65*	46-20-24.099N 084-11-23.421W	Fl G 4s		4	Green.	Year round lighted buoy. AIS MMSI: 993686013
13395	- *Lighted Buoy 66*	46-21-03.858N 084-11-48.003W	Fl R 4s		3	Red.	Replaced by nun from Dec. 7 to Apr. 21.
13400	- *Lighted Buoy 67*	46-21-01.595N 084-11-53.926W	Fl G 4s		5	Green.	Replaced by can from Dec. 7 to Apr. 21.
13405	- *Lighted Buoy 68*	46-21-40.179N 084-12-18.103W	Fl R 4s		3	Red.	Replaced by nun from Nov. 28 to Apr. 21.
13410	- *Lighted Buoy 69*	46-21-38.023N 084-12-23.535W	Fl G 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 21.
13425	- *Lighted Buoy 72*	46-22-16.753N 084-12-47.916W	Fl R 4s		3	Red.	Replaced by nun from Nov. 28 to Apr. 14.
13430	- *Lighted Buoy 73*	46-22-14.918N 084-12-53.766W	Fl G 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 14.
13445	- *Lighted Buoy 76*	46-22-54.135N 084-13-18.505W	Fl R 4s		4	Red.	Replaced by nun from Nov. 28 to Apr. 14.
13450	- *Lighted Buoy 77*	46-22-51.398N 084-13-24.069W	Fl G 4s		4	Green.	Year Round Lighted Buoy
13455	- Buoy 78	46-23-27.305N 084-13-45.287W				Red nun.	
13460	- *Lighted Buoy 79*	46-23-29.921N 084-14-08.921W	Fl G 4s		3	Green.	Replaced by can from Nov. 21 to Apr. 14.
13465	- LIGHT 80	46-23-36.000N 084-13-47.870W	Fl R 2.5s	27 8	4	TR on post.	
	West Neebish Channel (Downbound)						
13470	- UPPER RANGE FRONT LIGHT	46-20-16.796N 084-12-18.125W	Q W	40 12		KRW on skeleton tower.	For downbound traffic. Range marks western half of channel. Visible 4° each side of range line.
13475	- UPPER RANGE REAR LIGHT 6,221 feet, 159.6° from front light.	46-19-19.220N 084-11-47.287W	F W	82 25		KRW on red and white square skeleton tower.	For downbound traffic. Range marks western half of channel. Visible 4° each side of range line.
13480	- LIGHT 54	46-22-50.800N 084-13-37.900W	Fl R 4s	34 10	6	TR on post.	
13485	- *Lighted Buoy 53*	46-22-49.229N 084-13-42.477W	Fl G 4s		3	Green.	Replaced by can from Dec. 14 to Apr. 14.
13490	- Buoy 52	46-22-10.381N 084-13-16.353W				Red nun.	
13495	- Buoy 51	46-22-09.344N 084-13-21.405W				Green can.	
13500	- *Lighted Buoy 50*	46-21-35.403N 084-12-57.364W	Fl R 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 14.
13505	- LIGHT 49	46-21-33.510N 084-13-01.820W	Q G	32 10	6	SG on column on concrete cone.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	West Neebish Channel (Downbound)						
13510	- *Lighted Buoy 48*	46-21-09.546N 084-12-44.587W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
13515	- OAK RIDGE RANGE FRONT LIGHT	46-17-08.127N 084-12-56.831W	F G	73 22		KRW on square skeleton tower.	Visible 1.5° each side of range line. Lighted throughout 24 hours.
13520	- OAK RIDGE RANGE REAR LIGHT 1,947 feet, 181.5° from front light.	46-16-48.915N 084-12-57.573W	F G	144 44		KRW on square skeleton tower.	Visible 1.5° each side of range line. Lighted throughout 24 hours.
13525	- *Lighted Buoy 46*	46-20-44.626N 084-12-45.343W	Fl R 4s		4	Red.	Year round lighted buoy
13530	- LIGHT 45	46-20-44.130N 084-12-50.140W	Fl G 2.5s	32 10	5	SG on black tripod tower.	
13535	- Buoy 44	46-20-04.681N 084-12-47.226W				Red nun.	
13540	- Buoy 43	46-20-04.459N 084-12-51.817W				Green can.	
13545	- *Lighted Buoy 42*	46-19-25.091N 084-12-48.730W	Fl R 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
13550	- *Lighted Buoy 41*	46-19-23.670N 084-12-53.526W	Fl G 4s		4	Green.	Replaced by can from Nov. 21 to Apr. 21.
13555	- *Lighted Buoy 40*	46-18-44.930N 084-12-50.469W	Fl R 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
13560	- *Lighted Buoy 39*	46-18-44.986N 084-12-55.448W	Fl G 4s		4	Green.	Replaced by can from Nov. 21 to Apr. 21.
13565	- *Lighted Buoy 38*	46-18-05.807N 084-12-52.044W	Fl R 4s		3	Red.	Replaced by nun from Dec. 1 to Apr. 21.
13570	- *Lighted Buoy 37*	46-18-06.540N 084-12-57.119W	Fl G 4s		3	Green.	Replaced by can from Dec. 1 to Apr. 21.
13575	WEST NEEBISH LIGHT 36	46-17-38.340N 084-12-53.880W	Fl R 2.5s	33 10	7	White cylindrical tower with red band	
13580	- Buoy 35	46-17-18.867N 084-12-58.568W				Green can.	
13585	- Buoy 34	46-17-30.360N 084-12-51.780W				Red nun.	
13590	- LIGHT 33	46-17-10.100N 084-12-50.190W	Q G	32 10	4	SG on black column adjoining small house.	
13595	- LIGHT 32	46-17-07.050N 084-12-40.430W	Q R	31 9	4	TR on post.	
13600	**Rock Cut Lower Leading Light**	46-15-06.310N 084-10-33.033W	F W	29 9	15	KRW on square skeleton tower.	Lighted throughout 24 hours.
13605	- LIGHT 30	46-16-56.140N 084-12-28.690W	F R	31 9	6	TR on post.	
13610	- LIGHT 29	46-16-54.330N 084-12-32.260W	Q G	31 9	5	SG on post.	
13615	- LIGHT 28	46-16-29.000N 084-11-59.900W	Iso R 6s	32 10	3	TR on triangular skeleton tower.	
13620	- LIGHT 27	46-16-27.000N 084-12-03.438W	Iso G 6s	32 10	3	SG on triangular skeleton tower.	
13625	- LIGHT 26	46-16-01.910N 084-11-30.500W	F R	34 10	4	TR on triangular skeleton tower.	
13630	- LIGHT 25	46-16-00.090N 084-11-34.030W	F G	34 10	5	SG on triangular skeleton tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	West Neebish Channel (Downbound)						
13635	- *Lighted Buoy 24*	46-15-29.036N 084-10-55.377W	Q R		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
13640	*Sawmill Point Lighted Buoy 23*	46-15-03.022N 084-10-53.027W	Q G		4	Green.	Year round lighted buoy.
13645	*Sawmill Point Lighted Buoy 22*	46-15-04.516N 084-10-47.916W	Fl R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21. AIS MMSI: 993686007
13650	MOON ISLAND LEADING LIGHT	46-13-07.344N 084-10-15.920W	F W	40 12	6	Cylindrical tower with black band.	
13655	- Buoy 20	46-14-41.927N 084-10-40.778W				Red nun.	
13660	- Buoy 19	46-14-41.076N 084-10-46.197W				Green can.	
13665	- *Lighted Buoy 18*	46-14-21.195N 084-10-34.752W	Fl R 4s		5	Red.	Replaced by nun from Nov. 28 to Apr. 21.
13670	- LIGHT 17	46-14-19.830N 084-10-39.120W	Fl G 4s	32 10	7	SG on post.	
13675	*Kemps Point Lighted Buoy 15A*	46-13-49.535N 084-10-30.348W	Fl G 4s		3	Green.	Replaced by can from Dec. 14 to Apr. 21.
13680	- LIGHT 16	46-13-36.980N 084-10-21.250W	Q R	32 10	3	TR on post on concrete base.	
13685	- *Lighted Buoy 15*	46-13-19.128N 084-10-20.718W	Q G		5	Green.	Replaced by can from Dec. 14 to Apr. 21.
13690	- LIGHT 14	46-13-10.090N 084-09-58.230W	Q R	24 7	4	TR on post.	
13695	*Moon Island Lighted Buoy 13*	46-13-07.680N 084-10-00.964W	Fl G 2.5s		4	Green.	Year round lighted buoy. AIS MMSI: 993686008
13700	- *Lighted Buoy 12*	46-12-54.875N 084-09-30.494W	Fl R 4s		3	Red.	Replaced by nun from Nov. 28 to Apr. 21.
13705	- *Lighted Buoy 11*	46-12-52.713N 084-09-33.476W	Fl G 4s		3	Green.	Replaced by can from Nov. 28 to Apr. 21.
13710	- *Lighted Buoy 10*	46-12-37.994N 084-08-59.739W	Fl R 2.5s		3	Red.	Replaced by nun from Nov. 28 to Apr. 28.
13715	- LIGHT 9	46-12-35.400N 084-09-03.300W	Fl G 2.5s	42 13	6	White cylindrical tower with green band.	
13720	- Buoy 8	46-12-24.895N 084-08-36.441W				Red nun.	
13725	- Buoy 7	46-12-22.065N 084-08-38.090W				Green can.	
13730	- *Lighted Buoy 6*	46-12-11.026N 084-08-11.296W	Fl R 4s		4	Red.	Replaced by nun from Nov. 28 to Apr. 28.
13735	- *Lighted Buoy 5*	46-12-09.065N 084-08-14.088W	Fl G 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 28.
13740	- Buoy 4	46-11-40.403N 084-07-15.020W				Red nun.	
13745	- Buoy 3	46-11-38.066N 084-07-18.083W				Green can.	
13750	- *Lighted Buoy 2*	46-11-09.644N 084-06-19.290W	Fl R 2.5s		4	Red.	Replaced by nun from Nov. 28 to Apr. 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	West Neebish Channel (Downbound)						
13755	- *Lighted Buoy 1*	46-11-07.290N 084-06-22.142W	Fl G 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 28.
	Lake George						
	East Neebish Island Channel						
	Buoys maintained from May 7 to Oct. 28.						
13760	- Buoy 1	46-19-15.261N 084-06-40.282W				Green can.	Maintained from May 07 to October 28
13765	- Buoy 2	46-19-13.960N 084-06-33.850W				Red nun.	Maintained from May 7 to October 28
13770	- *Lighted Buoy 3*	46-19-21.266N 084-06-32.990W	Fl G 4s		3	Green	
13775	- Buoy 5	46-20-19.967N 084-07-18.293W				Green can.	
13780	- Buoy 7	46-20-30.067N 084-07-27.393W				Green can.	
13785	- Buoy 8	46-20-39.849N 084-07-29.123W				Red nun.	
13790	- *Lighted Buoy 9*	46-20-43.967N 084-07-39.194W	Q G		3	Green.	
13795	- Buoy 11	46-20-50.128N 084-07-40.170W				Green can.	
13800	- *Lighted Buoy 12*	46-20-50.476N 084-07-38.081W	Fl R 4s		3	Red	
13805	- *Lighted Buoy 13*	46-20-56.322N 084-07-39.901W	Fl G 4s		3	Green.	
13810	- Buoy 14	46-20-56.743N 084-07-37.184W				Red nun.	
13815	*Birch Point Lighted Buoy QV18*	46-22-18.000N 084-08-12.000W	Fl R 4s			Red spar.	Seasonal.
	Lake George Channel						
	Buoys maintained from May 7 to Oct. 28.						
13820	- Buoy 1	46-23-26.072N 084-08-33.086W				Green can.	
13830	- Buoy 3	46-23-42.536N 084-08-33.150W				Green can.	
13835	- Buoy 3A	46-23-52.748N 084-08-35.095W				Green can.	
13840	- Buoy 4A	46-23-54.200N 084-08-33.125W				Red nun.	
13845	- Buoy 5	46-24-02.369N 084-08-39.004W				Green can.	
13850	- *Lighted Buoy 6*	46-24-03.604N 084-08-38.103W	Fl R 2.5s		3	Red.	
13855	- Buoy 7	46-24-17.548N 084-08-47.310W				Green can.	
13860	- Buoy 8	46-24-19.672N 084-08-44.943W				Red nun.	
13865	- *Lighted Buoy 9*	46-24-35.488N 084-08-58.375W	Fl G 2.5s		3	Green.	
13870	- Buoy 10	46-24-35.276N 084-08-54.801W				Red nun.	
13875	- Buoy 11	46-25-05.719N 084-09-08.836W				Green can.	
13880	- Buoy 12	46-25-05.720N 084-09-05.465W				Red nun.	
13885	- Buoy 13	46-25-36.069N 084-09-17.710W				Green can.	
13890	- Buoy 14	46-25-36.716N 084-09-14.851W				Red nun.	
13895	- *Lighted Buoy 15*	46-26-06.172N 084-09-28.811W	Fl G 4s		3	Green.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Lake George						
	Lake George Channel *Buoys maintained from May 7 to Oct. 28.*						
13900	- Buoy 16	46-26-06.076N 084-09-24.112W				Red nun.	Maintained year round.
	Sugar Island North Channel *Buoys maintained from May 7 to Oct. 28.*						
13905	- *Lighted Buoy 1*	46-30-13.406N 084-06-43.043W	Fl G 4s		3	Green.	Replaced by can from Oct. 28 to May 7.
13910	- Buoy 5	46-31-51.115N 084-08-46.047W				Green can.	
13912	- *Lighted Buoy 6*	46-31-39.954N 084-09-24.156W	Fl R 4s		4	Red	
13915	- *Lighted Buoy 6A*	46-31-32.048N 084-10-37.238W	Q R		3	Red.	
13920	- Buoy 7	46-31-34.637N 084-10-49.655W				Green can.	
13925	- Buoy 8	46-32-09.118N 084-11-41.834W				Red nun.	
13930	- Buoy 9	46-32-05.458N 084-11-44.446W				Green can.	
13935	- Buoy 13	46-31-14.165N 084-14-12.106W				Green can.	
13940	- Buoy 15	46-30-45.354N 084-14-41.305W				Green can.	
13945	- Buoy 30	46-29-35.016N 084-17-53.827W				Red nun.	
13950	- Buoy 31	46-29-31.903N 084-17-58.285W				Green can.	
	Lake Nicolet						
13955	UPPER NICOLET RANGE FRONT LIGHT	46-27-15.561N 084-15-55.624W	F W	42 13		KRW on square skeleton tower.	For upbound traffic. Range marks eastern half of channel. Visible 1.5° each side of range line
13960	UPPER NICOLET RANGE REAR LIGHT 3,107 feet, 339.6° from front light.	46-27-44.307N 084-16-11.105W	F W	84 26		KRW on skeleton tower.	For upbound traffic. Range marks eastern half of channel. Visible 1.5° each side of range line.
13965	- *Lighted Buoy 82*	46-24-15.573N 084-14-11.079W	Fl R 4s		3	Red.	Replaced by nun from Nov. 21 to Apr. 14.
13970	- *Lighted Buoy 83*	46-24-52.572N 084-14-53.960W	Fl G 4s		3	Green.	Replaced by can from Nov. 21 to Apr. 14.
13975	- Buoy 84	46-25-25.391N 084-14-49.195W				Red nun.	
13980	- Buoy 85	46-25-19.700N 084-15-08.643W				Green can.	
13985	- Anchorage Buoy A	46-23-30.685N 084-14-25.020W				Yellow can.	
13990	- Anchorage Buoy B	46-24-21.533N 084-14-51.975W				Yellow can.	
13995	- Buoy 86	46-25-54.989N 084-15-04.785W				Red nun.	
14000	- *Lighted Buoy 86A*	46-26-07.631N 084-15-19.213W	Fl R 4s		3	Red.	Replaced by nun from Nov. 21 to Apr. 14.
14005	*Six Mile Point Lighted Buoy 87*	46-26-03.542N 084-15-31.972W	Fl G 4s		5	Green.	Replaced by can from Dec. 14 to Apr. 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Lake Nicolet						
14010	FRECHETTE POINT LIGHT 91	46-27-20.131N 084-16-45.886W	Fl G 2.5s	30 9	5	SG on same structure as Frechette Point Range Front Light.	
14015	FRECHETTE POINT RANGE FRONT LIGHT	46-27-20.221N 084-16-46.003W	Q G	38 12		KRW on square skeleton tower.	Visible 1.5° each side of range line.
14020	FRECHETTE POINT RANGE REAR LIGHT 4,481 feet, 323.4° from front light.	46-27-55.734N 084-17-24.163W	F G	93 28		KRW on triangular skeleton tower.	Visible 1.5° each side of range line.
14025	- LIGHT 88	46-26-48.701N 084-16-05.228W	Fl R 2.5s	34 10	7	TR on post on concrete foundation.	
14030	- *Lighted Buoy 89*	46-26-53.800N 084-16-21.605W	Fl G 4s		4	Green.	Year round lighted buoy. AIS MMSI: 993686014
14035	- Buoy 90	46-27-12.209N 084-16-26.303W				Red nun.	
14040	**Sugar Island Leading Light**	46-24-44.210N 084-13-58.904W	Iso W 6s	50 15	15	KRW on square skeleton tower.	The light is sectored and displays an ISO W 6s light in the channel center, a ISO R 6s Light marking the Port Channel Limits, and a ISO G 6s Light marking the Starboard Channel Limits Downbound.
	Little Rapids Cut						
14045	SIX MILE POINT RANGE FRONT LIGHT	46-26-23.764N 084-15-58.774W	F W	30 9		KRW on white cylindrical tower.	Lighted throughout 24 hours.
14050	SIX MILE POINT RANGE REAR LIGHT 2,382 feet, 153.1° from front light.	46-26-02.785N 084-15-43.390W	Iso W 6s	63 19		KRW on square skeleton tower.	Higher intensity on range line. Lighted throughout 24 hours.
14055	- *Lighted Buoy 92*	46-27-40.624N 084-16-50.983W	Fl R 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 14.
14060	- *Junction Lighted Buoy*	46-27-38.065N 084-16-57.405W	Fl (2+1)G 6s		4	Green and red bands.	Replaced by can from Nov. 21 to Apr. 14.
	Little Rapids Channel *Buoys maintained from May 14 to Nov. 14.*						
14065	- Buoy 2	46-27-42.761N 084-17-08.489W				Red nun.	
14070	- Buoy 4	46-27-44.803N 084-17-13.610W				Red nun.	
14075	- Buoy 5	46-27-46.555N 084-17-20.443W				Green can.	
14080	- Buoy 6	46-27-47.436N 084-17-18.744W				Red nun.	
14085	- Buoy 8	46-28-08.548N 084-17-42.997W				Red nun.	
	Little Rapids Cut						
14090	- LIGHT 95	46-28-23.430N 084-17-32.466W	Fl G 2.5s	18 5	4	SG on column on concrete pier.	
14095	- LIGHT 96	46-28-30.960N 084-17-26.070W	Fl R 2.5s	20 6	4	TR on column on concrete pier.	
14100	- LIGHT 98	46-29-07.474N 084-17-53.087W	Q R	25 8	7	TR on triangular tower.	
14105	- *Lighted Ice Buoy 98B V-AIS*	46-29-20.281N 084-18-06.232W	Q R		4	Red ice buoy.	Marks upstream end of ice boom on eastern side of river. On station only during deployment of ice boom. AIS MMSI: 993683017

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)						
	Little Rapids Cut						
14110	- LIGHT 99	46-29-12.105N 084-18-08.269W	F G	32 10	8	SG on skeleton tower.	Visible 120° to 335°.
14115	MISSION POINT OBSTRUCTION LIGHT D	46-29-16.374N 084-17-59.268W	Fl W 6s	20 6	5	On post.	
14120	MISSION POINT OBSTRUCTION LIGHT A	46-29-16.764N 084-18-13.098W	Fl W 4s	20 6	5	On post.	
14125	MISSION POINT OBSTRUCTION LIGHT E	46-29-21.630N 084-18-03.108W	Fl W 4s	20 6	5	On post.	
14130	- *Lighted Buoy 101*	46-29-21.677N 084-18-17.049W	Fl G 4s		3	Green.	Maintained from Apr. 14 to Dec. 7.
14135	- *Junction Lighted Buoy LR*	46-29-25.678N 084-18-07.132W	Fl (2+1)R 6s		4	Red with green band.	Replaced by nun from Dec. 7 to Apr. 14.
14140	MISSION POINT OBSTRUCTION LIGHT B	46-29-25.926N 084-18-24.162W	Fl W 6s	20 6	5	On post.	
14145	MISSION POINT OBSTRUCTION LIGHT C	46-29-31.416N 084-18-32.694W	Fl W 4s	20 6	5	On post.	
14150	- *Lighted Buoy 104*	46-29-34.875N 084-18-14.283W	Q R		3	Red.	Replaced by nun from Dec. 7 to Apr. 14.
14155	- *Lighted Buoy 105*	46-29-32.878N 084-18-31.733W	Q G		3	Green.	Replaced by can from Dec. 14 to Apr. 14.
	HEAD OF LAKE NICOLET TO WHITEFISH BAY (Chart 14884)						
	Bayfield Channel						
14160	BAYFIELD ROCK RANGE FRONT LIGHT	46-29-19.962N 084-16-59.114W	F W	35 11		KRW on skeleton tower.	Visible 4° each side of range line. Lighted throughout 24 hours.
14165	BAYFIELD ROCK RANGE REAR LIGHT 922 feet, 109.2° from front light.	46-29-16.969N 084-16-46.667W	F W	54 16		KRW on skeleton tower.	Visible 4° each side of range line. Lighted throughout 24 hours.
14170	- *Lighted Buoy 107*	46-29-36.898N 084-18-49.895W	Fl G 4s		3	Green.	Replaced by can from Nov. 21 to Apr. 14.
14175	- *Lighted Buoy 108*	46-30-03.091N 084-19-38.075W	Fl R 2.5s		3	Red.	Replaced by nun from Nov. 21 to Apr. 14.
14180	- Buoy 109	46-29-35.148N 084-18-54.987W				Green can.	
14185	BAYFIELD DIKE LIGHT (C)		Iso R 4s	25 8		Red and white striped triangular daymark on mast.	Seasonal.
14190	- *Lighted Buoy 110*	46-30-11.582N 084-19-57.618W	Fl R 4s		3	Red.	Replaced by nun from Dec. 14 to Apr. 14.
14191	GEORGE KEMP MARINA EAST LIGHT	46-30-01.200N 084-20-13.740W	Fl G 4s	12 4		Metal tower.	Maintained from May 1 to Oct. 31. Private aid.
14192	GEORGE KEMP MARINA WEST LIGHT	46-30-01.800N 084-20-13.740W	Fl R 4s	12 4		Piling with metal tower.	Maintained from May 1 to Oct. 31. Private aid.
	American Canal						
14195	SOUTHEAST PIERHEAD LIGHT		F R	9 3		Pipe.	Aid maintained by U.S. Army Corps of Engineers.
14200	EAST CENTER PIERHEAD LIGHT Marks direction of pier.		F R	20 6		Concrete column.	Aid maintained by U.S. Army Corps of Engineers.
14205	NORTHEAST PIERHEAD LIGHT		F R	21 6		Concrete column.	Aid maintained by U.S. Army Corps of Engineers.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	HEAD OF LAKE NICOLET TO WHITEFISH BAY (Chart 14884)						
	American Canal						
14210	WEST CENTER PIERHEAD LIGHT		F R	20 6		Concrete column.	Aid maintained by U.S. Army Corps of Engineers.
14215	SOUTHWEST PIER LIGHT		Q W	6 2		Concrete column.	Aid maintained by U.S. Army Corps of Engineers.
14220	SOUTHWEST PIERHEAD LIGHT		F R	20 6		Concrete column.	Aid maintained by U.S. Army Corps of Engineers.
14225	NORTHWEST PIERHEAD LIGHT		F R	20 6		Concrete column.	SIREN: Answers signals. Aid maintained by U.S. Army Corps of Engineers.
	Vidal Shoals Channel						
14230	- RANGE FRONT LIGHT	46-30-14.113N 084-22-01.746W	Q R	32 10		KRW on skeleton tower.	Visible 1.5° each side of range line
14235	- RANGE REAR LIGHT 885 feet, 076.2° from front light.	46-30-16.200N 084-21-49.465W	Iso R 6s	66 20		KRW on skeleton tower.	Visible 1.5° each side of range line.
14245	- *Lighted Buoy 2*	46-30-10.813N 084-23-05.017W	Fl R 4s		3	Red.	Replaced by nun from Nov. 21 to May 1.
14250	- *Lighted Buoy 3*	46-29-56.500N 084-23-07.331W	Fl G 4s		3	Green.	Replaced by can from Nov. 21 to May 1.
14255	- *Lighted Buoy 5*	46-29-47.612N 084-23-55.464W	Fl G 4s		4	Green.	Replaced by can from Nov. 21 to May 1.
14265	*Big Point Lighted Buoy 7*	46-29-30.577N 084-25-16.452W	Q G		4	Green.	Year round lighted buoy.
14290	CANADIAN CANAL UPPER ENTRANCE RANGE FRONT LIGHT (C)	46-30-54.000N 084-22-18.000W	F R	40 12		Red square daymark with white vertical stripe on skeleton tower.	Lighted throughout 24 hours. Seasonal.
14295	CANADIAN CANAL UPPER ENTRANCE RANGE REAR LIGHT (C) 811 feet, 051º from front light.		F R	63 19		Red square daymark with white vertical stripe on skeleton tower.	Lighted throughout 24 hours. Seasonal.
14300	- *Upper Turning Lighted Buoy QM11 (C)*	46-30-41.969N 084-22-31.589W	Q G			Green.	Spar; winter marker. Seasonal.
	Vidal Shoals						
14305	- *Northeast Lighted Buoy QM13 (C)*	46-30-29.018N 084-22-56.089W	Fl G 4s			Green.	Spar; winter marker. Seasonal.
14310	- *North Lighted Buoy QM14 (C)*	46-30-24.613N 084-23-13.421W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
14315	- *Southwest Lighted Buoy P (C)*	46-30-06.647N 084-23-34.365W	IQ W			Yellow with black band.	Spar; winter markder. Cardinal buoyage. Seasonal.
14320	- *West Lighted Buoy QM24 (C)*	46-30-01.789N 084-23-53.609W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
	Pointe Aux Pins Channel						
14325	POINTE AUX PINS RANGE FRONT LIGHT (C)	46-28-06.000N 084-28-18.000W	F G	30 9		KWR on tower.	Visible on range line only. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	HEAD OF LAKE NICOLET TO WHITEFISH BAY (Chart 14884)						
	Pointe Aux Pins Channel						
14330	POINTE AUX PINS RANGE REAR LIGHT (C) 922 feet, 233.1º from front light.		F G	62 19		KRW on skeleton tower.	Visible on range line only. Seasonal.
14335	- *Lighted Buoy 8*	46-29-39.353N 084-25-30.162W	Fl R 2.5s		4	Red.	Year round lighted buoy.
14337	- *Lighted Buoy 9*	46-29-04.795N 084-26-08.200W	Fl G 4s		4	Green.	Replaced by can from Nov. 21 to May 1.
14340	- *Lighted Buoy 10*	46-29-14.365N 084-26-18.715W	Fl R 4s		4	Red.	Replaced by nun from Nov. 21 to May 1.
14345	*Pointe Aux Pins Bay Lighted Buoy P12 (C)*	46-28-45.322N 084-27-13.728W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
14350	*Brush Point Lighted Buoy 13*	46-28-23.593N 084-27-28.615W	Q G		4	Green.	Replaced by can from Dec. 21 to May 1.
14355	BRUSH POINT LIGHT A	46-28-20.551N 084-27-27.110W	Q W	25 8	4	NB on post.	
14360	*Pointe Aux Pins Bay Lighted Buoy P14 (C)*	46-28-21.871N 084-27-51.890W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
14365	*Brush Point Lighted Buoy 15*	46-28-06.570N 084-27-43.910W	Fl G 4s		4	Green.	Replaced by can from Nov. 21 to May 1.
14370	POINTE AUX PINS MAIN LIGHT (C)	46-27-50.800N 084-28-22.300W	Iso R 4s	27 8	8	On circular tower with red and white bands.	Seasonal.
14375	*Brush Point Lighted Buoy 17*	46-27-43.477N 084-28-04.562W	Q G		4	Green.	Replaced by can from Dec. 21 to May 1.
14380	*Brush Point Lighted Buoy P19 (C)*	46-27-28.692N 084-28-41.258W	Fl G 4s			Green.	Spar; winter marker. Seasonal.
14385	*Point Louise Lighted Buoy P20 (C)*	46-27-39.900N 084-28-42.120W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
14390	BRUSH POINT RANGE FRONT LIGHT	46-27-44.459N 084-27-46.843W	F R	33 10		KRW on square skeleton tower.	
14395	BRUSH POINT RANGE REAR LIGHT 2,016 feet, 074° from front light.	46-27-49.951N 084-27-19.167W	F R	71 22		KRW on square skeleton tower.	Visible 14° each side of range line. Lighted throughout 24 hours.
14400	*Cedar Point Lighted Buoy 21*	46-27-15.439N 084-29-42.962W	Fl G 4s		3	Green.	Replaced by can from Nov. 21 to May 1.
14405	*Cedar Point Lighted Buoy P22 (C)*	46-27-27.134N 084-29-46.155W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
14410	*Cedar Point Lighted Buoy 23*	46-27-02.289N 084-30-48.707W	Fl G 4s		3	Green.	Replaced by can from Nov. 21 to May 1.
14415	*Cedar Point Lighted Buoy 24*	46-27-13.553N 084-30-52.068W	Fl R 4s		3	Red.	Replaced by nun from Nov. 21 to May 1.
	Round Island						
14420	- *Lighted Buoy 25*	46-26-50.752N 084-31-39.753W	Fl G 4s		4	Green.	Year round lighted buoy.
14425	- LIGHT 26	46-27-02.100N 084-31-53.000W	Q R	34 10	5	White cylindrical tower with red band.	RACON: M (- -)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ST. MARYS RIVER				
	HEAD OF LAKE NICOLET TO WHITEFISH BAY (Chart 14884)						
	Round Island						
14430	BIRCH POINT RANGE FRONT LIGHT	46-26-01.301N 084-31-24.093W	F R	63 19		KRW on skeleton tower.	Visible 1.5° each side of range line. Lighted throughout 24 hours.
14435	BIRCH POINT RANGE REAR LIGHT 3,450 feet, 138.6° from front light.	46-25-35.734N 084-30-51.555W	F R	113 34		KRW on skeleton tower.	Visible 1.5° each side of range line. Lighted throughout 24 hours.
14440	- Buoy 27	46-26-43.317N 084-32-17.114W				Green can.	
14445	Point Iroquois Anchorage Buoy "B"	46-26-40.647N 084-33-00.394W				Yellow can.	
14450	- Buoy 30	46-27-11.345N 084-32-23.877W				Red nun.	
14455	- Traffic Buoy (RI) V-AIS	46-27-07.023N 084-32-47.446W					AIS MMSI: 993683016
14460	- *Lighted Buoy 32*	46-27-19.511N 084-32-45.709W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 7 to May 1.
	Point Iroquois						
14465	- *Shoal Lighted Buoy 33*	46-27-39.538N 084-33-47.859W	Fl G 4s		4	Green.	Maintained from 01 May to 07 Dec.
14470	- Anchorage Buoy A	46-27-32.438N 084-34-58.892W				Yellow can.	
14473	*Pointe De Chenes Lighted Buoy P34 (C)*	46-27-54.156N 084-33-28.453W	Fl R 4s				
14475	- Shoal Buoy 35	46-28-25.577N 084-34-47.062W				Green can.	
14483	- *Lighted Buoy P38 (C)*	46-29-11.419N 084-35-07.385W	Fl R 4s			Red.	Spar; winter marker. Seasonal.
14485	- Shoal Buoy 37	46-29-01.020N 084-35-32.537W				Green can.	
14490	- *Shoal Lighted Bell Buoy 39*	46-29-41.942N 084-36-24.579W	Q G		4	Green.	Replaced by can from 07 Dec to 01 May
14495	**Gros Cap Reefs Light (C)**	46-30-42.000N 084-36-54.000W	Fl R 5s	59 18	14	On white square block.	Seasonal. Emergency light.
			LAKE SUPERIOR				
	ST. MARYS RIVER TO AU SABLE POINT (Chart 14962)						
14510	**Ile Parisienne Light (C)**	46-38-42.000N 084-43-24.000W	Fl W 10s 1s fl 9s ec.	53 16	16	White hexagonal tower.	Seasonal. Emergency light.
14515	WHITEFISH HARBOR LIGHT 2	46-45-31.950N 084-57-50.148W	Fl R 4s	29 9	5	TR on pile.	
14520	WHITEFISH HARBOR LIGHT 3	46-45-33.333N 084-57-52.992W	Fl G 4s	29 9	4	SG on pile.	
14525	WHITEFISH HARBOR LIGHT 4	46-45-35.800N 084-57-53.900W	Fl R 4s	25 8	4	TR on white column.	
14530	**Whitefish Point Light**	46-46-16.062N 084-57-26.802W	Fl (2)W 20s 0.2s fl 4.8s ec. 0.2s fl 14.8s ec.	80 24	15	White cylindrical tower. 90	RACON: O (- - -) Standby light of reduced intensity.
14535	CRISP POINT LIGHT	46-45-06.900N 085-15-27.180W	Fl W 6s				Maintained from May 1 to Nov 1 Private aid.
14540	LITTLE LAKE HARBOR LIGHT 2	46-43-04.404N 085-21-52.128W	Fl R 4s	19 6	5		Maintained from Jun.1 to Oct. 1.
14545	LITTLE LAKE HARBOR LIGHT 3	46-42-59.775N 085-21-50.971W	Fl G 4s	28 9	4	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	ST. MARYS RIVER TO AU SABLE POINT (Chart 14962)						
14550	**Grand Marais Harbor Of Refuge Outer Light**	46-41-01.611N 085-58-18.224W	Fl W 2.5s	40 12	10	Skeleton tower with upper part enclosed. 41	HORN: 1 blast ev 15s (2s bl). Fog signal operates by keying microphone five times on VHF-FM channel 83A. Operates from May 1 to Oct. 20.
14552	*Grand Marais Weather Buoy*	46-44-24.000N 085-58-48.000W	Fl Y 4s				Maintained from Apr. 15 to Nov. 15. Private aid.
14555	GRAND MARAIS HARBOR OF REFUGE LIGHT 1	46-40-50.800N 085-58-09.900W	Fl G 4s	24 7	4	SG on post.	
14560	**Grand Marais Harbor Of Refuge Inner Light**	46-40-36.005N 085-58-16.031W	F W	54 16	16	White square pryamidal skeleton tower with upper part enclosed. 64	
	GRAND MARAIS TO BIG BAY POINT (Chart 14963)						
14565	**Au Sable Light**	46-40-18.600N 086-08-23.500W	Fl W 6s	100 30	12	White conical tower with red dwelling attached. 110	
14570	GRAND ISLAND LIGHT	46-33-34.692N 086-40-48.432W	Fl W 6s	190 58	9	On white post.	
14572	*Munising Weather Buoy*	46-34-12.000N 086-34-12.000W	Fl Y 4s				Maintained from Apr. 15 to Nov. 15 Private aid.
14575	MUNISING ENTRANCE LEADING LIGHT	46-24-53.820N 086-39-40.644W	F W	79 24		White conical tower.	Sectored light, white light in the channel center, red light right of channel center, green light left of channel center.
14582	MUNISING CITY PIER LIGHT	46-24-49.080N 086-39-06.960W	Fl R 3s			On white post.	Private aid.
14585	*Trout Point Lighted Bell Buoy 2*	46-29-05.000N 086-35-47.500W	Fl R 4s		4	Red.	Replaced by nun from Oct. 14 to May 7.
14590	*Sand Point Lighted Bell Buoy 3*	46-27-35.793N 086-36-44.193W	Fl G 4s		4	Green.	Replaced by can from Oct. 14 to May 7.
14595	Grand Island Harbor Buoy 4	46-27-27.827N 086-37-04.496W				Red nun.	
14600	**Bay Furnace Light**	46-26-19.602N 086-41-31.464W	Fl W 2.5s	20 6	11	White cylindrical tower. 21	Higher intensity beam on bearing 166°.
14603	Bay Furnace Buoy 2	46-26-33.400N 086-41-18.900W				Red nun.	
14610	Williams Landing Buoy 1	46-26-47.415N 086-40-49.611W				Green can.	
14615	Grand Island Shoal Buoy 1A	46-27-09.375N 086-41-45.714W				Green can.	
	MARQUETTE AND PRESQUE ISLE HARBORS (Chart 14970)						
14620	Marquette Bay South Shoal Buoy 1A	46-30-44.205N 087-21-27.316W				Green can.	
14625	Marquette Rocks Buoy 1 Marks northeast side of shoal.	46-32-55.107N 087-22-09.486W				Green can.	Replaced by can from Oct. 14 to May 7.
14630	**Marquette Light**	46-32-48.080N 087-22-33.760W	Fl W 10s	77 23	10	Red square tower on dwelling.	
14635	**Marquette Breakwater Outer Light**	46-32-01.680N 087-22-29.040W	Fl W 2.5s	36 11	12 R 12	White cylindrical tower with red band.	Red from 181° to 198°. HORN: 1 blast ev 15s (2s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
14640	MARQUETTE BREAKWATER INNER LIGHT	46-32-12.870N 087-22-43.430W	Fl R 6s	38 12	5	TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	MARQUETTE AND PRESQUE ISLE HARBORS (Chart 14970)						
14645	Marquette Harbor Buoy 1 Marks shoal.	46-31-41.941N 087-22-52.892W				Green can.	
14650	Marquette Power And Light Channel Buoy 1	46-32-01.900N 087-23-07.300W				Green can.	Private aid.
14655	Marquette Power And Light Channel Buoy 2	46-32-06.100N 087-23-08.000W				Red nun-shaped spar.	Private aid.
14656	Marquette Power And Light Range Front Daybeacon	46-31-56.100N 087-23-36.500W				Orange and white diamond.	Private aid.
14657	Marquette Power And Light Range Rear Daybeacon 100 feet, 250° from front range beacon.	46-31-55.500N 087-23-38.600W				Orange and white diamond.	Private aid.
14660	Marquette Harbor Buoy 3	46-32-10.110N 087-23-08.532W				Green can.	
14665	Marquette Harbor Buoy 5	46-32-19.260N 087-23-08.462W				Green can.	
14666	Marquette Harbor Buoy 7	46-32-31.207N 087-23-08.409W				Green can.	
14667	MARQUETTE MARINA ENTRANCE LIGHT 1	46-32-34.510N 087-23-02.520W	Fl G 2.5s			SG on blue pole.	Maintained from Mar. 1 to Nov. 30. Private aid.
14668	MARQUETTE MARINA ENTRANCE LIGHT 2	46-32-33.420N 087-23-01.820W	Fl R 2.5s			TR on blue pole.	Maintained from Mar. 1 to Nov. 30. Private aid.
14670	**Presque Isle Harbor Breakwater Light**	46-34-28.110N 087-22-28.180W	Fl R 4s	56 17	11	White cylindrical tower with red band on octagonal building. 56	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Fog Signal operates by keying the microphone five times on VHF-FM Channel 83A.
14680	*Presque Isle Harbor Lighted Buoy 1* Marks north side of shoal.	46-34-08.024N 087-23-03.573W	Fl G 4s		4	Green.	Replaced by can from Oct. 14 to May 7.
14685	*Wisconsin Electric Power Company Lighted Buoy 3*	46-34-33.800N 087-23-16.200W	Q G			Green.	Maintained from Apr. 1 to Dec. 1. Private aid.
14688	PRESQUE ISLE MARINA LIGHT 1	46-34-49.700N 087-23-09.000W	F G			SG on building.	Maintained from May 1 to Oct. 31. Private aid.
14690	PRESQUE ISLE MARINA LIGHT 2	46-34-51.000N 087-23-06.000W	Fl R 4s	12 4		TR on red steel pile.	Maintained from May 1 to Oct. 31. Private aid.
14695	Presque Isle Harbor Buoy 2 Marks shoal.	46-34-34.168N 087-22-49.647W				Red nun.	
	GRAND MARAIS TO BIG BAY POINT (Chart 14963)						
14700	**Granite Island Light**	46-43-15.200N 087-24-45.600W	Fl W 6s	96 29	11	Gray skeleton tower. 50	
14702	*Granite Island Weather Buoy*	46-43-12.000N 087-25-12.000W	Fl Y 4s				Maintained from Apr. 15 to Nov. 15. Private aid.
14705	**Big Bay Point Light**	46-50-31.150N 087-40-45.320W	Fl W 6s	89 27	12	Red square tower on dwelling. 60	
14710	Big Bay Point Buoy 1 Marks north side of shoal.	46-51-41.718N 087-41-15.468W				Green can.	Maintained from May 14 to Oct. 14.
14715	BIG BAY HARBOR WEST PIER LIGHT	46-49-48.000N 087-43-29.400W	Fl R 4s	25 8	5	TR on column.	
14720	Big Bay Harbor East Pier Daybeacon	46-49-41.300N 087-43-32.000W				SG on column.	
14725	**Stannard Rock Light** Marks north side of reef.	47-11-00.620N 087-13-30.420W	Fl W 6s	102 31	10	Gray conical tower on cylindrical crib. 110	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	BIG BAY POINT TO REDRIDGE (Chart 14964)						
14730	**Huron Island Light**	46-57-47.920N 087-59-55.410W	Fl W 10s	197 60	12	Gray granite tower on dwelling. 39	
14735	Point Abbaye Shoal Buoy 6	46-57-29.861N 088-05-51.512W				Red nun.	
14740	*Point Abbaye Shoal Lighted Bell Buoy 3*	46-58-22.524N 088-06-15.441W	Fl G 4s		5	Green.	Maintained from May 14 to Oct. 14.
14745	HURON BAY LIGHT	46-53-28.000N 088-12-53.000W	Fl W 4s	34 10	6	NG on skeleton tower.	
14750	SAND POINT LIGHT	46-47-00.246N 088-27-59.310W	Fl W 4s	40 12	6	NR on skeleton tower.	
14755	L'Anse Bay Shoal Buoy 2	46-46-46.440N 088-28-04.920W				Red nun.	Maintained from May 14 to Oct. 14.
14760	L'Anse Buoy 1	46-45-33.369N 088-27-33.557W				Green can.	Maintained from May 14 to Oct. 14.
14762	L'ANSE MARINA LIGHT 2	46-45-28.000N 088-27-26.000W	Fl R 4s	8 2		TR on pile.	Maintained from May 1 to Nov. 1. Private aid.
14763	**Indian Country Sports Light**	46-45-28.200N 088-27-21.300W	Fl W 2.5s	44 13		Cupola atop white square tower.	Private aid.
	KEWEENAW WATERWAY (Chart 14972)						
	Keweenaw Waterway *Lighted buoys maintained from May 14 to Nov. 14.*						
14765	- LOWER ENTRANCE LIGHT	46-58-07.986N 088-25-51.561W	Fl W 6s	68 21	9	White octagonal tower on concrete pierhead.	Standby light of reduced intensity. HORN: 1 blast ev 30s (3s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
14775	- *Lighted Buoy 1*	46-58-05.418N 088-25-59.768W	Fl G 4s		4	Green.	
14780	- *Lighted Buoy 3*	46-58-25.068N 088-26-01.430W	Fl G 4s		4	Green.	
14780.1	- Buoy 3A	46-58-47.178N 088-26-06.120W				Green can.	Maintained from May 14 to Oct. 14.
14785	- *Lighted Buoy 4*	46-58-56.641N 088-26-03.647W	Fl R 4s		3	Red.	
14790	- LIGHT 5	46-58-55.164N 088-26-08.230W	Fl G 2.5s	14 4	4	SG on white pile.	
14795	- Daybeacon 7	46-59-00.242N 088-26-08.950W				SG on skeleton tower.	
14800	- Daybeacon 9	46-59-19.977N 088-26-10.983W				SG on skeleton tower.	
14805	- LIGHT 10	46-59-21.890N 088-26-01.690W	Fl R 2.5s	14 4	4	TR on post.	
14810	- LIGHT 11 Marks northwest end of Middle Ground.	46-59-24.224N 088-26-08.927W	Fl G 2.5s	14 4	4	SG on white pile.	
14815	- LIGHT 13	46-59-31.928N 088-26-09.300W	Q G	14 4	4	SG on white pile.	
14820	- SOUTH RANGE FRONT LIGHT	46-59-36.499N 088-26-03.461W	Q W	25 8		KRW on gray skeleton tower.	Light visible 360°.
14825	- SOUTH RANGE REAR LIGHT 1,673 feet, 136.2° from front light.	46-59-24.585N 088-25-46.750W	Iso W 6s	57 17		KRW on gray skeleton tower.	Visible 1.5° each side of range line.
14830	- LIGHT 15	46-59-43.620N 088-26-16.670W	Fl G 2.5s	14 4	4	SG on white pile.	
14835	- LIGHT 17	47-00-07.880N 088-26-50.630W	Fl G 2.5s	14 4	4	SG on white pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	KEWEENAW WATERWAY (Chart 14972)						
	Keweenaw Waterway						
	Lighted buoys maintained from May 14 to Nov. 14.						
14840	- LIGHT 16	47-00-10.610N 088-26-46.460W	Fl R 2.5s	14 4	4	TR on white pile.	
14845	- LIGHT 19	47-00-41.060N 088-27-37.170W	Fl G 2.5s	14 4	4	SG on post.	
14850	- LIGHT 18	47-00-43.800N 088-27-33.010W	Fl R 2.5s	14 4	4	TR on white pile.	
14855	- LIGHT 20	47-01-13.890N 088-28-15.240W	Q R	14 4	4	TR on white pile.	
14860	PRINCESS POINT RANGE FRONT LIGHT	47-01-17.531N 088-28-29.300W	Q W	20 6		KRW on gray skeleton tower.	Light visible 360°. Higher intensity on range line.
14865	PRINCESS POINT RANGE REAR LIGHT 1,142 feet, 164.7° from front light.	47-01-06.666N 088-28-24.940W	Iso W 6s	41 13		KRW on gray skeleton tower.	Visible 1.5° each side of range line.
14870	- LIGHT 22	47-01-34.800N 088-28-30.940W	Fl R 2.5s	13 4	4	TR on white pile.	
14875	- Buoy 24	47-01-50.843N 088-28-40.247W				Red nun.	Maintained from May 14 to Nov 14.
14880	- LIGHT 25	47-01-49.620N 088-28-43.740W	Fl G 2.5s	15 5	4	SG on white pile.	
14885	- Buoy 26	47-02-19.720N 088-28-51.024W				Red nun.	
14890	- *Lighted Buoy 27*	47-02-18.941N 088-28-55.874W	Q G		4	Green.	
14895	Pike Bay Obstruction Beacons (5)	47-01-41.000N 088-31-13.000W				NW on posts worded DANGER SUBMERGED PILINGS.	Private aid.
14900	- *Junction Lighted Buoy "KW"*	47-04-18.989N 088-29-25.074W	Fl (2+1)R 6s		4	Red and green bands.	
	Torch Lake Canal						
	Buoys maintained from May 14 to Oct. 14.						
14905	- Buoy 1	47-05-42.518N 088-25-38.255W				Green can.	
14906	- *Lighted Buoy 2*	47-05-50.040N 088-25-13.950W	Fl R 4s		4	Red nun.	
14907	- Buoy 3	47-06-49.000N 088-24-35.000W				Green can.	
14908	- Buoy 4	47-06-49.000N 088-24-29.000W				Red nun.	
14911	- Buoy 5	47-07-37.020N 088-24-22.970W				Green can.	
14914	- Buoy 7	47-08-01.820N 088-24-18.220W				Green can.	
14915	- Buoy 8	47-08-02.078N 088-24-16.655W				Red nun.	
14915.5	- *Lighted Buoy 9*	47-08-10.590N 088-24-19.040W	Fl G 4s		4	Green can.	
14916	- Buoy 10	47-08-24.450N 088-24-22.660W				Red nun.	
14917	- Buoy 11	47-08-33.970N 088-24-28.420W				Green can.	
14918	- Buoy 12	47-09-00.900N 088-24-40.240W				Red nun.	
14919	- Buoy 13	47-09-00.698N 088-24-41.795W				Green can.	
14922	- *Lighted Buoy 14*	47-09-26.138N 088-24-53.495W	Fl R 2.5s		4	Red nun.	
14923	- Buoy 15	47-09-26.200N 088-24-55.870W				Green can.	
14925	Lake Linden Harbor Buoy 1	47-10-36.392N 088-24-32.312W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	KEWEENAW WATERWAY (Chart 14972)						
	Keweenaw Waterway *Lighted buoys maintained from May 14 to Nov. 14.*						
14926	Torch Lake Southwest Arm Wreck Buoy 2	47-08-58.889N 088-27-01.151W				Red nun.	Maintained from May 14 to Nov 14.
14935	- Buoy 30 Marks west side of shoal.	47-05-19.749N 088-29-52.981W				Red nun.	
14937	- Buoy 30A	47-06-05.231N 088-30-03.296W				Red nun.	Maintained from May 14 to Nov 14.
14940	PILGRIM POINT LEADING LIGHT	47-06-23.962N 088-30-26.439W	Fl W 4s	22 7	9	NB on post.	Higher intensity beam on bearing 165°.
14945	- *Lighted Buoy 31*	47-06-32.414N 088-30-19.834W	Q G		3	Green.	Can; winter marker.
14950	- *Lighted Buoy 33*	47-07-04.160N 088-31-56.382W	Fl G 2.5s		4	Green can.	
14955	- Buoy 34	47-07-21.448N 088-32-47.551W				Red nun.	Maintained from May 14 to Nov 14.
14960	- *Lighted Buoy 35*	47-07-17.563N 088-32-48.527W	Fl G 4s		4	Green.	
14965	- Buoy 36	47-07-26.763N 088-33-08.529W				Red nun.	
14970	OSCEOLA POINT LIGHT	47-07-22.649N 088-35-39.183W	Q R	20 6	4	TR on post.	
14975	*Atlantic Point Lighted Buoy 37*	47-07-29.977N 088-36-28.124W	Fl G 4s		4	Green.	
14980	- Buoy 39	47-07-33.267N 088-36-59.615W				Green can.	
14985	- Buoy 40	47-07-39.687N 088-36-58.775W				Red nun.	Maintained from May 14 to Nov 14.
14990	- *Lighted Buoy 42*	47-07-49.206N 088-37-11.267W	Fl R 4s		4	Red.	
14995	COLE CREEK LIGHT	47-07-45.403N 088-37-19.370W	Fl G 2.5s	25 8	5	SG on post.	
15000	- Buoy 44	47-07-58.156N 088-37-20.428W				Red nun.	Maintained from May 14 to Nov 14.
15005	- Buoy 46	47-08-14.231N 088-37-28.181W				Red nun.	Maintained from May 14 to Nov 14.
15010	- Buoy 48	47-09-10.507N 088-37-47.678W				Red nun.	
15015	- *Lighted Buoy 49*	47-09-28.500N 088-37-58.910W	Fl G 4s		3	Green.	Can; winter marker.
15025	- *Lighted Buoy 50*	47-09-59.785N 088-38-19.931W	Fl R 4s		3	Red.	Nun; winter marker.
15030	- *Lighted Buoy 51*	47-10-13.719N 088-38-28.618W	Fl G 2.5s		3	Green.	Replaced by can from Nov. 14 to May 14.
15035	- Buoy 52	47-10-12.076N 088-38-20.806W				Red nun.	Maintained from May 14 to Nov 14.
15040	ROULEAU POINT RANGE FRONT LIGHT	47-11-33.218N 088-37-07.865W	Q W	26 8		KRW on skeleton tower.	Light visible 360°. Also serves as a leading light for Lily Pond Lower Canal.
15045	ROULEAU POINT RANGE REAR LIGHT 1,282 feet, 033.4° from front light.	47-11-43.778N 088-36-57.635W	F W	55 17		KRW on skeleton tower.	Visible 1.5° each side of range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	KEWEENAW WATERWAY (Chart 14972)						
	Keweenaw Waterway						
	Lighted buoys maintained from May 14 to Nov. 14.						
15050	- Buoy 54	47-10-23.100N 088-38-13.460W				Red nun.	Maintained from May 14 to Nov 14.
15055	- Buoy 55	47-10-29.237N 088-38-12.679W				Green can.	
15060	- Buoy 56	47-10-52.320N 088-37-45.270W				Red nun.	Maintained from May 14 to Nov 14.
15065	- Buoy 57	47-10-52.315N 088-37-50.075W				Green can.	Maintained from May 14 to Nov 14.
15070	- Buoy 59	47-11-18.724N 088-37-24.779W				Green can.	Maintained from May 14 to Nov 14.
15075	- Buoy 60	47-11-22.070N 088-37-17.074W				Red nun.	Maintained from May 14 to Nov 14.
15080	- *Lighted Buoy 61*	47-11-28.022N 088-37-18.237W	Fl G 2.5s		3	Green.	Replaced by can from Nov 14 to May 14.
15085	LILY POND LEADING LIGHT	47-12-01.340N 088-37-03.860W	Fl R 2.5s	25 8	6	TR on post.	
15090	- Buoy 63	47-11-51.676N 088-37-10.593W				Green can.	Maintained from May 14 to Nov 14.
15095	LILY POND SOUTH LIGHT 68	47-12-30.420N 088-37-05.340W	Fl R 4s	25 8	5	TR on post.	
15100	LILY POND NORTH LIGHT 70	47-13-00.960N 088-37-08.730W	Q R	25 8	5	TR on post.	
	Keweenaw Upper Entrance						
15105	- EAST REVETMENT LIGHT 72	47-13-36.060N 088-37-32.380W	Fl R 4s	25 8	5	TR on post.	
15110	- WEST REVETMENT LIGHT	47-13-34.330N 088-37-37.780W	Fl G 4s	25 8	5	SG on post.	
15115	- WEST BREAKWATER LIGHT	47-14-01.940N 088-37-56.620W	Fl G 4s	32 10	5	SG on post.	
15120	**- Light**	47-14-04.320N 088-37-49.210W	Fl W 15s	82 25	15	White square tower on cylindrical base.	HORN: 1 blast ev 30s (3s bl). Operates by keying microphone five times on VHF-FM Channel 83A.
	BIG BAY POINT TO REDRIDGE (Chart 14964)						
15130	GRAND TRAVERSE BAY HARBOR LIGHT 2	47-11-18.000N 088-14-06.000W	Fl (2)R 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	29 9	7	TR on post.	
15135	GRAND TRAVERSE BAY HARBOR LIGHT3	44-11-19.700N 088-14-08.000W	Fl G 2.5s	27 8	4	SG on post.	
15140	Bete Grise Bay Shoal Buoy 1	47-21-29.676N 087-55-30.000W				Green can.	
15145	LAC LA BELLE SOUTH PIERHEAD LIGHT	47-22-27.300N 087-57-46.000W	Fl G 4s	29 9	7	SG on post.	
15150	LAC LA BELLE NORTH PIERHEAD LIGHT	47-22-31.200N 087-57-48.200W	Fl R 4s	25 8	4	2 TR on gray pole.	
15151	**Mendota Light**	47-22-26.500N 087-58-00.100W	Fl W 20s	44 13		Square buff-brick tower in front of dwelling with steep gable roof.	Private aid.
15155	*Keweenaw Point Lighted Buoy 1*	47-23-46.177N 087-42-31.938W	Fl G 4s		4	Green.	Maintained from May 14 to Oct. 14.
15160	Gull Rock Buoy 4	47-24-30.694N 087-40-01.847W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	BIG BAY POINT TO REDRIDGE (Chart 14964)						
15165	GULL ROCK LIGHT	47-25-03.000N 087-39-50.000W	Fl (2)W 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	50 15	8	White square tower on dwelling.	
15170	**Manitou Light**	47-25-11.300N 087-35-12.610W	Fl W 10s	81 25	10	Cylindrical tower.	RACON: M (- -)
15175	**Copper Harbor Light**	47-28-28.100N 087-51-36.900W	Fl G 6s	90 27	14	On white skeleton tower near white dwelling.	
15180	*Copper Harbor Entrance Lighted Bell Buoy CH*	47-28-41.094N 087-51-52.171W	Mo (A) W		6	Red and white stripes.	Maintained from May 14 to Oct. 14.
15185	COPPER HARBOR RANGE FRONT LIGHT	47-28-07.392N 087-51-59.250W	Q W	28 9		KWR on red small house with tower.	Visible 14° each side of range line.
15190	COPPER HARBOR RANGE REAR LIGHT 412 feet, 190.5° from front light.	47-28-03.392N 087-52-00.341W	F W	40 12		KWR on white tapered skeleton tower.	Visible 14° each side of range line.
15191	Copper Harbor Crib Buoy	47-28-12.000N 087-53-03.000W				White with orange bands and orange diamond.	Maintained from May 15 to Oct. 15. Private aid.
15192	Copper Harbor Shoal Buoy	47-28-17.000N 087-53-42.000W				White with orange bands and orange diamond.	Maintained from May 15 to Oct. 15. Private aid.
15195	**Eagle Harbor Light**	47-27-35.130N 088-09-32.700W	Al WR 20s	60 18	23	White octagonal tower on red dwelling.	Obscured 150° to 330°.
15205	*Eagle Harbor Shoal Lighted Bell Buoy 1*	47-27-50.078N 088-09-30.239W	Fl G 4s		5	Green.	Maintained from May 14 to Oct. 14.
15210	EAGLE HARBOR RANGE FRONT LIGHT	47-27-18.449N 088-09-05.251W	Q G	24 7		KRW on post.	Visible 4° each side of range line.
15215	EAGLE HARBOR RANGE REAR LIGHT 1055 feet, 149.7° from front light.	47-27-09.457N 088-08-57.512W	Iso G 6s	44 13		KRW on gray tower.	Visible 4° each side of range line.
	REDRIDGE TO SAXON HARBOR (Chart 14965)						
15220	ONTONAGON HARBOR EAST BREAKWATER LIGHT	46-52-47.040N 089-19-47.786W	Iso G 6s	25 8	6	SG on pile.	
15220.1	Ontonagon Harbor East Breakwater VAIS 1	46-52-47.040N 089-19-47.786W					MMSI: 993682620
15225	ONTONAGON HARBOR WEST BREAKWATER LIGHT	46-52-46.080N 089-19-51.040W	Fl R 4s	31 9	8	White skeleton tower with upper part enclosed.	HORN: 2 blasts ev 60s (3s bl-3s si-3s bl-51s si). Operates from May 1 to Oct. 20.
15230	BLACK RIVER EAST BREAKWATER LIGHT 1	46-40-08.682N 090-02-56.262W	Fl G 4s	31 9	8	SG on post.	
15235	BLACK RIVER WEST BREAKWATER LIGHT 2	46-40-05.730N 090-02-57.160W	Fl R 4s	18 5	3	TR on tower.	Maintained from May 28 to Oct. 14.
15240	Black River Buoy 3	46-40-06.230N 090-02-53.547W				Green can.	Maintained from May 21 to Oct. 21.
15245	SAXON HARBOR EAST BREAKWATER LIGHT	46-33-49.170N 090-26-16.520W	Fl G 6s	29 9	7	SG on post.	
15250	SAXON HARBOR WEST BREAKWATER LIGHT	46-33-47.070N 090-26-17.070W	Fl R 6s	29 9	7	TR on white column.	
	APOSTLE ISLANDS (Chart 14973)						
15255	**Outer Island Light**	47-04-35.500N 090-25-00.110W	Fl W 10s	130 40	12	White concial tower with dwelling attached. 130	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	APOSTLE ISLANDS (Chart 14973)						
15258	*Stockton Island Wave Buoy 1*	46-57-15.000N 090-30-16.000W	Fl Y 2s				Maintained from May.1 to Nov.15. Private aid.
15260	GULL ISLAND LIGHT	46-54-24.000N 090-26-36.000W	Fl W 2.5s	56 17	6		
15265	STOCKTON ISLAND HARBOR EAST ENTRANCE LIGHT	46-54-50.000N 090-33-05.500W	Fl G 2.5s	18 5		SG on post.	Private aid.
15270	STOCKTON ISLAND HARBOR WEST ENTRANCE LIGHT	46-54-48.000N 090-33-07.000W	Fl R 2.5s	18 5		TR on post.	Private aid.
15275	**Michigan Island Light**	46-52-17.154N 090-29-49.545W	Fl W 6s	170 52	11	White cylindrical tower. 11	
15280	LA POINTE LIGHT	46-43-43.359N 090-47-05.697W	Iso G 6s	70 21	10	White cylindrical tower.	
15290	*Madeline Island Lighted Buoy 4* Marks west side of shoal.	46-44-57.955N 090-48-01.016W	Fl R 4s		4	Red.	Nun; winter marker. Maintained from May 21 to Nov. 21.
15295	CHEQUAMEGON POINT LIGHT	46-43-42.550N 090-48-33.380W	Fl G 4s	33 10	7	White cylindrical tower.	
	Chequamegon Bay						
15300	*Houghton Point Lighted Buoy 6*	46-41-48.376N 090-50-45.179W	Fl R 4s		4	Red.	Maintained from May 21 to Nov. 21.
15305	- *Lighted Buoy 1* Marks west side of shoal.	46-39-54.855N 090-51-33.520W	Fl G 4s		4	Green.	Maintained from May 21 to Nov. 21.
	ASHLAND AND WASHBURN HARBORS (Chart 14974)						
	Chequamegon Bay						
	Ashland Harbor						
15310	- BREAKWATER LIGHT	46-37-41.478N 090-52-14.200W	Fl W 6s	60 18	9	White octagonal pyramidal tower.	
15315	- BREAKWATER SOUTH LIGHT	46-37-03.893N 090-50-32.886W	Fl R 4s	21 6	5	White pile.	
15355	- *Lighted Buoy 1*	46-36-06.762N 090-53-26.983W	Fl G 4s		4	Green.	Replaced by can from Nov 21. to May 21.
15360	- Buoy 2	46-36-06.472N 090-53-32.913W				Red nun.	
15365	- Buoy 3	46-35-56.983N 090-53-26.873W				Green can.	
15370	- *Lighted Buoy 4*	46-35-56.403N 090-53-35.274W	Q R		4	Red.	Replaced by nun from Nov. 21 to May 21.
15375	- Buoy 5	46-35-52.722N 090-53-30.946W				Green can.	
15380	- Buoy 6	46-35-46.770N 090-53-57.645W				Red.	
15390	ASHLAND ORE DOCK LIGHT	46-36-10.660N 090-52-56.880W	Q Y			Diamond daymark on a pile.	Private aid.
15395	NORTHERN POWER LIGHT 1	46-35-48.050N 090-53-13.110W	Fl Y 4s				Private aid.
15395.1	NORTHERN POWER LIGHT 2	46-35-45.510N 090-53-14.980W	Fl Y 4s				Private aid.
15395.2	NORTHERN POWER LIGHT 3	46-35-51.670N 090-53-02.340W	Fl Y 4s				Private aid.
15400	Reiss Coal Co. Dock Buoy 2	46-35-39.500N 090-53-50.000W				Red spar.	Maintained from Apr. 1 to Dec. 1. Private aid.
15404	ASHLAND MARINA SOUTH BREAKWATER LIGHT	46-35-34.195N 090-53-16.770W	Fl W 2.5s	17 5		NW on post worded DANGER.	Maintained from May 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	ASHLAND AND WASHBURN HARBORS (Chart 14974)						
	Chequamegon Bay						
	Ashland Harbor						
15405	ASHLAND MARINA LIGHT 1	46-35-39.800N 090-53-18.000W	Fl G 2.5s	20 6		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
15406	ASHLAND MARINA LIGHT 2	46-35-41.198N 090-53-23.550W	Fl R 2.5s	21 6		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
15410	ASHLAND MARINA BREAKWATER LIGHT	46-35-43.100N 090-53-19.500W	Q W	20 6		NW on post worded DANGER.	Maintained from May 1 to Nov. 1. Private aid.
15420	WASHBURN HARBOR SOUTH BREAKWATER LIGHT 2	46-40-01.800N 090-53-17.000W	Fl R 4s	20 6		TR on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
15425	WASHBURN HARBOR NORTH BREAKWATER LIGHT 1	46-40-02.900N 090-53-16.900W	Fl G 4s	20 6		SG on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
15430	SIXTH AVENUE BREAKWALL LIGHT	46-39-57.000N 090-54-19.000W	F Y	7 2		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
	APOSTLE ISLANDS (Chart 14973)						
15440	MADELINE ISLAND MARINA ENTRANCE SOUTH LIGHT	46-46-20.800N 090-47-01.400W	Fl R 4s	15 5		TR on white metal frame.	Maintained from May 1 to Nov. 1. Private aid.
15445	MADELINE ISLAND MARINA ENTRANCE NORTH LIGHT	46-46-21.500N 090-46-58.600W	Fl W 4s	15 5		Green square daymark on white metal frame.	Maintained from May 1 to Nov. 1. Private aid.
15450	LAPOINTE HARBOR DETACHED BREAKWATER WEST LIGHT	46-46-40.000N 090-47-23.800W	Q W	26 8		On post.	Private aid.
15455	LAPOINTE HARBOR DETACHED BREAKWATER EAST LIGHT	46-46-40.200N 090-47-20.100W	Q W	26 8		On post.	Private aid.
15460	MADELINE ISLAND BREAKWATER LIGHT	46-46-43.150N 090-47-20.850W	Fl G 4s	28 9	6	SG on pole.	
	Port Superior Marina *Aids maintained from Apr. 15 to Nov. 1.*						
15470	- Buoy 2	46-47-20.600N 090-50-59.000W				Red.	Private aid.
15475	- Buoy 4	46-47-20.700N 090-51-00.300W				Red.	Private aid.
15480	- Buoy 5	46-47-19.800N 090-51-02.600W				Green.	Private aid.
15485	- Buoy 6	46-47-20.600N 090-51-02.200W				Red.	Private aid.
15490	- LIGHT 7	46-47-19.600N 090-51-03.900W	Fl G 4s	15 5		On pile.	Private aid.
15495	- LIGHT 8	46-47-20.200N 090-51-05.700W	Fl R 4s	15 5		On pile.	Private aid.
	APOSTLE ISLANDS (Chart 14973)						
15500	Bayfield Ruins Buoy 1	46-48-08.560N 090-49-26.000W				Green can.	Maintained from May 21 to Oct. 21.
15505	MATTSON LIGHT	46-48-22.400N 090-49-14.300W	Fl R 2.5s	13 4		Diamond daymark on pile.	Maintained from May 1 to Nov. 1. Private aid.
15510	BAYFIELD HARBOR SOUTH BREAKWATER LIGHT	46-48-34.620N 090-48-41.050W	Fl G 4s	25 8	7	SG on post.	HORN: 1 blast ev 15s (2s bl). Operates by keying the microphone five times on VHF-FM channel 83A.
15520	BAYFIELD HARBOR NORTH BREAKWATER LIGHT	46-48-35.980N 090-48-39.330W	Fl R 4s	28 9	6	TR on white column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	APOSTLE ISLANDS (Chart 14973)						
15525	BAYFIELD MUNICIPAL BREAKWATER LIGHT	46-48-41.300N 090-48-41.000W	Iso G 6s	25 8		On pile.	Maintained from Apr. 15 to Dec. 15. Private aid.
15527	BAYFIELD FERRY LANDING BREAKWALL LIGHT 2	46-48-43.140N 090-48-38.940W	Fl R 4s			TR on post.	Maintained from Apr. 15 to Nov. 15. Private aid.
	Red Cliff						
15530	- BREAKWATER LIGHT	46-50-10.000N 090-47-16.000W	Fl R 4s	18 5		On pile.	Maintained from May 1 to Nov. 1. Private aid.
15545	- *Point Lighted Buoy 4*	46-53-40.500N 090-44-47.500W	Fl R 4s		4	Red.	Maintained from May 21 to Oct. 14.
	APOSTLE ISLANDS (Chart 14973)						
15550	LITTLE MANITOU ISLAND LIGHT	46-57-42.350N 090-41-10.860W	Fl G 4s	21 6	6	SG on skeleton tower.	
15555	RASPBERRY ISLAND LIGHT	46-58-13.200N 090-48-17.470W	Fl W 2.5s	58 18	7		
15560	Marina Shoal Buoy 3	46-58-10.604N 090-48-33.832W				Green can.	
15565	**Devils Island Light**	47-04-46.288N 090-43-41.130W	Fl R 10s	100 30	11	Cylindrical tower. 100	
15570	*York Island Shoals Lighted Bell Buoy 1* Marks west side of shoal.	47-01-35.142N 090-51-22.577W	Fl G 4s		4	Green.	Maintained from May 21 to Oct. 14.
15573	*Sand Island Wave Buoy 1*	47-01-19.704N 090-54-24.372W	Q Y				Maintained from May.1 to Nov.15. Private aid.
15574	*Sand Island Wave Buoy 2*	46-57-14.022N 090-54-40.680W	Q Y				Maintained from May.1 to Nov.15. Private aid.
15575	Sand Island Buoy 2 Marks north side of shoal.	47-00-51.462N 090-54-17.570W				Red nun.	Maintained from May 21 to Oct. 14.
15580	SAND ISLAND LIGHT	47-00-11.910N 090-56-14.720W	Fl W 6s	60 18	9	Red tower on dwelling.	
15581	LITTLE SAND BAY HARBOR EAST LIGHT 1	46-56-47.840N 090-53-31.080W	Fl G 2.5s	17 5		On post.	Private aid.
15582	LITTLE SAND BAY HARBOR WEST LIGHT 2	46-56-47.220N 090-53-32.880W	Fl R 2.5s	17 5		On post.	Private aid.
15584	Cornucopia West Entrance Buoy 2 Marks best water due to shoaling.	46-51-34.140N 091-06-16.260W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
	LITTLE GIRLS POINT TO SILVER BAY (Chart 14966)						
15585	CORNUCOPIA EAST PIER LIGHT	46-51-34.848N 091-06-17.232W	Fl G 2.5s	29 9	8	SG on post.	
15590	PORT WING EAST PIER LIGHT	46-47-34.729N 091-23-10.067W	Fl G 4s	27 8	5	SG on post.	
	DULUTH - SUPERIOR HARBOR (Chart 14975)						
	Superior Entry						
15595	**- South Breakwater Light**	46-42-36.740N 092-00-22.220W	Fl G 5s	70 21	15	White cylindrical tower on fog signal building. 70	HORN: 1 blast ev 30s (3s bl). Operates by keying microphone five times on VHF-FM C. 83A.
15600	- NORTH BREAKWATER LIGHT 2	46-42-41.478N 092-00-30.000W	Q R	38 12	5	TR on post.	
15605	- INNER NORTH PIERHEAD LIGHT 2A	46-42-30.920N 092-00-49.200W	Iso R 6s	35 11	7	TR on post.	
15610	- INNER SOUTH PIERHEAD LIGHT 1	46-42-26.770N 092-00-44.990W	Iso G 6s	35 11	5	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	DULUTH - SUPERIOR HARBOR (Chart 14975)						
	Superior Entry						
15615	SUPERIOR HARBOR BASIN LIGHT 1A	46-42-15.840N 092-01-01.380W	Fl G 2.5s	35 11	4	SG on post.	
	Allouez Bay						
15630	- Entrance Buoy 1	46-42-12.833N 092-01-03.914W				Green can.	
15635	- Channel Buoy 2	46-42-06.683N 092-01-13.184W				Red nun.	
15640	- *Lighted Buoy 3*	46-42-06.506N 092-01-01.801W	Fl G 4s		4	Green.	Replaced by can from Dec. 01 to Apr. 28.
15645	- Channel Buoy 4	46-41-57.503N 092-00-54.004W				Red nun.	
15650	- Channel Buoy 5	46-41-59.293N 092-00-48.284W				Green can.	
	Superior Harbor Basin						
15660	- Anchorage Buoy A	46-42-34.604N 092-01-43.480W				Yellow nun.	
15665	- Anchorage Buoy B	46-42-58.581N 092-02-20.441W				Yellow nun.	
15670	- Buoy 1	46-42-17.785N 092-01-36.295W				Green can.	
15675	- Buoy 3	46-42-19.613N 092-01-48.124W				Green can.	
15680	- *Lighted Buoy 4*	46-42-30.213N 092-01-55.384W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Dec. 01.
15685	- Buoy 5	46-42-29.803N 092-02-15.664W				Green can.	
	Superior Front Channel						
15690	- RANGE FRONT LIGHT	46-42-25.592N 092-02-07.451W	Q G	42 13		KRW on skeleton tower.	Visible 1.5° each side of range line.
15695	- RANGE FRONT PASSING LIGHT	46-42-25.780N 092-02-06.750W	Fl G 4s	18 5	5	On range front light structure.	Visible from 150° to 270°.
15700	- RANGE REAR LIGHT 892 feet, 135.5° from front light.	46-42-19.307N 092-01-58.481W	Oc G 4s	70 21		KRW on skeleton tower.	Visible 1.5° each side of range line.
15705	- *Lighted Buoy 2*	46-42-51.392N 092-02-36.610W	Q R		4	Red.	Year round lighted buoy.
	Barkers Island Marina *Buoys maintained from May 1 to Nov. 1.*						
15710	- *Lighted Buoy 1*	46-42-50.000N 092-02-49.000W	Fl G 2s			Green.	Private aid.
15715	- *Lighted Buoy 2*	46-42-50.600N 092-02-49.900W	Fl R 2s			Red.	Private aid.
15720	- Buoy 3	46-42-48.300N 092-02-51.500W				Green can.	Private aid.
15725	- Buoy 4	46-42-48.900N 092-02-52.400W				Red nun.	Private aid.
15730	- Buoy 5	46-42-46.100N 092-02-55.700W				Green can.	Private aid.
15735	- Buoy 6	46-42-46.400N 092-02-56.300W				Red nun.	Private aid.
15740	- Buoy 7	46-42-45.100N 092-03-00.900W				Green can.	Private aid.
15745	- Buoy 8	46-42-46.100N 092-03-01.000W				Red nun.	Private aid.
15746	- Buoy 9	46-42-45.600N 092-03-08.200W				Green can.	Private aid.
15747	- Buoy 10	46-42-46.600N 092-03-06.600W				Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	DULUTH - SUPERIOR HARBOR (Chart 14975)						
	Superior Front Channel						
15750	- Buoy 1	46-42-50.164N 092-02-45.500W				Green can.	
15755	- Buoy 3	46-42-58.344N 092-02-58.035W				Green can.	
15760	- Buoy 4	46-43-02.109N 092-02-51.820W				Red nun.	
15765	- Buoy 5	46-43-10.074N 092-03-14.495W				Green can.	
15770	- *Lighted Buoy 6*	46-43-13.933N 092-03-08.610W	Fl R 4s		3	Red.	Maintained from Apr. 28 to Dec. 1.
15775	- Buoy 7	46-43-22.614N 092-03-32.485W				Green can.	
15780	- Buoy 8	46-43-26.654N 092-03-26.135W				Red nun.	
15785	- Buoy 9	46-43-35.214N 092-03-50.685W				Green can.	
15790	- *Lighted Buoy 10*	46-43-39.044N 092-03-44.529W	Fl R 4s		3	Red.	Maintained from Apr. 28 to Dec. 1.
15795	- Buoy 12	46-43-50.618N 092-04-01.247W				Red nun.	
15800	- Buoy 13	46-43-49.784N 092-04-11.885W				Green can.	
15805	- *Lighted Buoy 14*	46-44-03.105N 092-04-18.769W	Fl R 4s		3	Red.	Maintained from Apr. 28 to Dec. 01.
15810	- Buoy 15	46-44-04.234N 092-04-32.185W				Green can.	
15815	- Buoy 16	46-44-15.375N 092-04-36.274W				Red nun.	
15820	- *Lighted Buoy 18*	46-44-30.784N 092-04-57.655W	Fl R 4s		3	Red.	Replaced by nun from Dec. 1 to Apr. 28.
15825	- *Lighted Buoy 19*	46-44-32.035N 092-05-11.285W	Fl G 4s		4	Green.	Year round lighted buoy.
15830	East Gate Basin Buoy 20	46-44-37.940N 092-05-02.740W				Red nun.	
	Duluth Harbor						
15840	- Breakwater Isolated Danger Buoy	46-47-14.412N 092-05-22.603W				Black and Red Can	Maintained from Apr. 21 to Oct. 14.
15845	**- South Breakwater Outer Light**	46-46-48.460N 092-05-15.020W	F G	44 13	16	White tower on fog signal building. 44	HORN: 2 bl ev 60s (3s bl-3s si-3s bl-51s si). Fog signal operates by keying the microphone five times on VHF-FM Channel 83A.
15855	**- North Pier Light**	46-46-51.540N 092-05-17.030W	Iso R 6s	43 13	12	White cylindrical tower with black top and base. 43	
15860	**- South Breakwater Inner Light**	46-46-43.580N 092-05-30.530W	Fl W 5s	68 21	16	Black cylindrical tower with white lantern room. 68	Light obscured from 270° through 325°.
15865	- Basin Buoy 1	46-46-34.043N 092-05-39.643W				Green can.	
15870	- *Basin Traffic Lighted Buoy*	46-46-29.573N 092-05-59.364W	Mo (A) W		5	Red and white stripes.	Maintained from Apr. 21 to Dec. 07. AIS MMSI 993672226
15875	- *Basin Lighted Buoy 2*	46-46-22.244N 092-06-11.554W	Fl R 4s		4	Red.	Year round lighted buoy.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	DULUTH - SUPERIOR HARBOR (Chart 14975)						
	Duluth Harbor						
15880	- *Basin Lighted Buoy 3*	46-46-24.613N 092-05-43.103W	Fl G 4s		4	Green.	Year round lighted buoy.
	Harbor Cove Marina *Lights maintained from May 1 to Nov. 1.*						
15885	- LIGHT 1	46-46-21.000N 092-05-36.000W	F G			On post.	Private aid.
15890	- LIGHT 2	46-46-20.000N 092-05-34.000W	F R			On post.	Private aid.
15895	- LIGHT 3	46-46-21.000N 092-05-35.000W	F G			On post.	Private aid.
15900	- LIGHT 4	46-46-20.000N 092-05-35.000W	F R			On post.	Private aid.
	Duluth Harbor						
15905	- *Basin Lighted Buoy 5*	46-46-03.614N 092-05-50.594W	Fl G 4s		4	Green.	Year round lighted buoy.
15910	- Basin Anchorage Buoy A	46-46-12.213N 092-05-34.614W				Yellow can.	
15915	- Basin Anchorage Buoy B	46-45-59.380N 092-05-25.824W				Yellow can.	
15920	- Basin Anchorage Buoy C	46-45-46.604N 092-05-17.214W				Yellow can.	
15925	- *Basin Lighted Buoy 7*	46-45-28.084N 092-05-24.694W	Fl G 4s		4	Green.	Year round lighted buoy.
15930	DULUTH MARINE TERMINAL EAST LIGHT	46-45-16.000N 092-05-38.000W	F R	28 9		On white pile.	Maintained from Apr. 15 to close of navigation. Private aid.
15935	DULUTH MARINE TERMINAL SOUTH LIGHT	46-45-12.000N 092-05-40.000W	F R	28 9		On white pile.	Maintained from Apr. 15 to close of navigation. Private aid.
15940	*Rices Point Lighted Buoy 9*	46-45-13.284N 092-05-18.685W	Q G		4	Green.	Year round lighted buoy.
15945	INTERSTATE FISHING PIER EAST LIGHT	46-45-00.350N 092-05-59.800W	F R	15 5		On pile.	Maintained from Mar. 15 to Jan. 15. Private aid.
15950	INTERSTATE FISHING PIER WEST LIGHT	46-45-00.150N 092-06-01.250W	F R	15 5		On pile.	Maintained from Mar. 15 to Jan. 15. Private aid.
15955	East Gate Basin Buoy 11	46-44-57.886N 092-05-12.866W				Green can.	
	Rices Point Boatslip *Aids maintained from Apr. 15 to Nov. 1.*						
15960	- Buoy 1	46-45-02.000N 092-06-04.000W				Green can.	Private aid.
15965	- Buoy 2	46-45-02.000N 092-06-03.000W				Red nun.	Private aid.
15970	- Buoy 3	46-45-03.000N 092-06-04.500W				Green can.	Private aid.
15975	- Buoy 4	46-45-03.000N 092-06-04.200W				Red nun.	Private aid.
15980	- Buoy 5	46-45-04.000N 092-06-02.500W				Green can.	Private aid.
15985	- Buoy 6	46-45-04.000N 092-06-02.500W				Red nun.	Private aid.
	Hearding Island Channel						
15995	- Entrance Buoy 1	46-45-45.700N 092-05-13.800W				Green can.	Private aid.
16000	- Entrance Buoy 2	46-45-44.400N 092-05-08.300W				Red nun.	Private aid.
16005	- Entrance Buoy 4	46-45-44.800N 092-05-11.100W				Red nun.	Private aid.
16010	- Entrance Buoy 6	46-45-44.500N 092-05-12.800W				Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	DULUTH - SUPERIOR HARBOR (Chart 14975)						
	Duluth Harbor						
	Hearding Island Channel						
16015	ST. LOUIS BAY NORTH CHANNEL RANGE FRONT LIGHT (EASTERN SECTION)	46-44-09.150N 092-08-40.662W	Q R	42 13		KRW on skeleton tower.	Visible 1.5° each side of range line.
16020	ST. LOUIS BAY NORTH CHANNEL RANGE REAR LIGHT (EASTERN SECTION) 810 feet, 226.4° from front light.	46-44-03.634N 092-08-49.074W	Iso R 6s	62 19		KRW on skeleton tower.	Visible 1.5° each side of range line. On same structure as St. Louis Bay South Channel Range Rear Light (LLNR 16125).
	St. Louis Bay North Channel (Western Section)						
16023	- Buoy 1	46-44-48.000N 092-06-13.400W				Green can.	
16025	- Buoy 2	46-44-39.336N 092-07-59.127W				Red nun.	
16030	- *Lighted Buoy 3*	46-44-35.546N 092-07-56.437W	Q G		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
16035	- Buoy 4	46-44-30.168N 092-08-12.232W				Red nun.	
16040	- Buoy 5	46-44-26.726N 092-08-10.137W				Green can.	
16045	- Buoy 6	46-44-20.653N 092-08-26.157W				Red nun.	
16050	- Buoy 7	46-44-18.157N 092-08-23.207W				Green can.	
16055	*St Louis Bay Junction Lighted Buoy*	46-44-14.587N 092-08-26.387W	Fl (2+1)R 6s		3	Red and green bands.	Replaced by nun from Dec. 1 to Apr. 21.
16060	Howards Bay Buoy 2	46-44-38.285N 092-06-08.526W				Red nun.	
	St. Louis Bay South Channel (Eastern Section)						
16065	- Buoy 2	46-44-54.438N 092-06-18.736W				Red nun.	
16070	- *Lighted Buoy 2A*	46-44-48.502N 092-06-28.632W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.
16075	- Buoy 3	46-44-41.333N 092-06-32.517W				Green can.	
16080	- Buoy 4	46-44-44.686N 092-06-46.886W				Red nun.	
16085	- Buoy 5	46-44-32.250N 092-07-02.964W				Green can.	
	St. Louis Bay Cross Channel						
16090	- *Lighted Buoy 2*	46-44-40.563N 092-07-05.971W	Q R		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.
16095	- *Lighted Buoy 1*	46-44-34.912N 092-07-38.641W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
16105	- *Lighted Buoy 6*	46-44-44.986N 092-07-23.686W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.
16115	- Buoy 8	46-44-48.796N 092-07-28.306W				Red nun.	
	St. Louis Bay South Channel (Western Section)						
16120	- RANGE FRONT LIGHT	46-44-06.103N 092-08-40.705W	Q R	42 13		KRW on skeleton tower.	Visible all around.
16125	- RANGE REAR LIGHT 639 feet, 246.6° from front light.	46-44-03.607N 092-08-49.046W	Iso R 6s	62 19		KRW on skeleton tower.	Visible 1.5° each side of range line. On the same structure as St. Louis Bay North Range Rear Light (LLNR 16020)
16130	- Buoy 6	46-44-28.536N 092-07-30.545W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	DULUTH - SUPERIOR HARBOR (Chart 14975)						
	St. Louis Bay South Channel (Western Section)						
16135	- Buoy 7	46-44-25.346N 092-07-29.977W				Green can.	
16140	- Buoy 8	46-44-24.634N 092-07-44.302W				Red nun.	
16145	- *Lighted Buoy 9*	46-44-21.056N 092-07-44.477W	Fl G 4s		4	Green.	Maintained from Apr. 21 to Dec. 1.
16150	- Buoy 10	46-44-19.776N 092-08-02.567W				Red nun.	
16155	- Buoy 11	46-44-14.956N 092-08-04.967W				Green can.	
16160	- Buoy 12	46-44-14.757N 092-08-20.027W				Red nun.	
16165	- *Lighted Buoy 13*	46-44-07.217N 092-08-25.317W	Q G		3	Green.	Maintained from Apr. 21 to Dec. 1.
	St. Louis River Upper Channel						
16175	- Entrance Buoy 1	46-44-00.507N 092-08-31.318W				Green can.	
16180	- *Lighted Buoy 4*	46-43-21.884N 092-08-39.789W	Q R		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.
16185	- Buoy 5	46-43-24.407N 092-08-30.332W				Green can.	
16190	- Buoy 5A	46-43-17.297N 092-08-31.868W				Green can.	
	Minnesota Channel (Eastern Section)						
16195	- RANGE FRONT LIGHT	46-43-12.099N 092-08-36.782W	Fl G 4s	14 4		KRW on triangular tower.	Visible all around.
16200	- RANGE REAR LIGHT 996 feet, 083.8° from front light.	46-43-13.179N 092-08-22.537W	F G	37 11		KRW on white cylindrical tower.	Visible 1.5° each side of range line.
16205	- *Lighted Buoy 6*	46-43-12.587N 092-08-50.688W	Fl R 2.5s		3	Red.	Replaced by nun from Dec. 1 to Apr. 28.
16210	- *Lighted Buoy 7*	46-43-08.853N 092-08-49.521W	Q G		4	Green.	Replaced by can Dec. 1 from to Apr. 28.
16215	- Buoy 8	46-43-11.205N 092-09-04.549W				Red nun.	
16220	- *Lighted Buoy 9*	46-43-04.887N 092-09-10.229W	Fl G 4s		4	Green.	Replaced by can from Dec. 01 to Apr. 28.
16225	- *Lighted Buoy 10*	46-43-10.146N 092-09-17.310W	Fl R 4s		3	Red.	Replaced by nun from Dec. 01 to Apr. 28.
16230	- Buoy 13	46-43-02.997N 092-09-35.379W				Green can.	
16235	- *Lighted Buoy 14*	46-43-05.825N 092-09-40.876W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Dec. 1.
16240	- *Lighted Buoy 15*	46-43-01.208N 092-09-58.979W	Fl G 4s		4	Green.	Maintained from Apr. 28 to Dec. 1.
16245	- Buoy 16	46-43-06.888N 092-10-04.099W				Red nun.	
16250	- *Lighted Buoy 19*	46-43-03.345N 092-10-13.811W	Fl G 2.5s		4	Green.	Maintained from Apr. 28 to Dec. 1.
	Minnesota Channel (Western Section) *Buoys maintained from Apr. 28 to Oct. 21.*						
16255	- Buoy 20	46-43-06.000N 092-10-15.000W				Red Nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	DULUTH - SUPERIOR HARBOR (Chart 14975)						
	St. Louis River Upper Channel						
	Minnesota Channel (Western Section)						
	Buoys maintained from Apr. 28 to Oct. 21.						
16260	- Buoy 21	46-43-00.420N 092-10-53.400W				Green can.	
16265	- *Lighted Buoy 22*	46-43-02.400N 092-10-53.460W	Fl R 4s		3	Red.	
16270	- Buoy 23	46-42-52.910N 092-11-20.079W				Green can.	
16275	- Buoy 24	46-42-53.880N 092-11-21.300W				Red nun.	
16280	- *Lighted Buoy 26*	46-42-43.800N 092-11-39.540W	Fl R 4s		3	Red.	
16285	- Buoy 27	46-42-43.320N 092-11-37.080W				Green can.	
16290	- Buoy 28	46-42-35.100N 092-11-49.440W				Red nun.	
16295	- Buoy 29	46-42-33.420N 092-11-46.980W				Green can.	
16297	- *Lighted Buoy 30*	46-42-17.719N 092-12-01.230W	Fl R 4s		4	Red nun.	
16300	- Buoy 31	46-42-15.000N 092-11-58.620W				Green can.	
16305	- Buoy 32	46-42-00.120N 092-12-03.540W				Red nun.	
16308	- Buoy 33	46-41-51.489N 092-11-56.923W				Green can.	
16310	- Buoy 31A	46-41-59.460N 092-11-59.880W				Green can.	
16315	- Buoy 34	46-41-50.760N 092-12-00.240W				Red nun.	
16320	- Buoy 35	46-41-46.200N 092-11-48.360W				Green can.	
16322	- Buoy 36	46-41-45.300N 092-11-48.540W				Red nun.	
16323	St. Louis River Danger Buoy	46-41-43.981N 092-11-33.456W				White can with orange bands and diamonds.	
	St. Louis River						
	Buoys maintained from Apr. 28 to Oct. 21.						
16491	MCQUADE ROAD SMALL CRAFT HARBOR LIGHT	46-52-49.269N 091-55-12.904W	Fl R 4s			On single pole.	Maintained from Apr. 1 to Dec. 31. Private aid.
16492	Mcquade Road Small Craft Harbor Day Beacon	46-52-48.022N 091-55-11.412W					Maintained from Apr. 1 to Dec. 31. Private aid.
	LITTLE GIRLS POINT TO SILVER BAY (Chart 14966)						
16494	*UMinn Research Bouy*	46-51-54.000N 091-55-36.000W	Fl Y 4s				Private aid.
16494.5	*UMinn Research 2*	46-48-42.000N 091-50-06.000W	Fl Y 2s				Maintained from May 1 to Nov. 1. Private aid.
	Knife River Harbor						
16495	- ENTRANCE LIGHT	46-56-38.000N 091-46-42.000W	Fl G 4s	31 9	5	SG on pile.	
	Two Harbors						
16500	**- Light**	47-00-50.330N 091-39-48.520W	Fl (2)W 20s 0.15s fl 4.8s ec. 0.15s fl 14.8s ec.	78 24		Square tower on dwelling. 78	Light obscured from 065° to 210°. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	LITTLE GIRLS POINT TO SILVER BAY (Chart 14966)						
	Two Harbors						
16505	**- East Breakwater Light**	47-00-38.190N 091-40-10.100W	Fl R 6s	32 10	9	Square pyramidal skeleton tower with upper part enclosed.	Standby light shows Fl R 5s of reduced intensity. HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying microphone five times on VHF-FM Channel 83A.
16515	- WEST BREAKWATER LIGHT	47-00-42.430N 091-40-29.430W	Fl G 4s	26 8	4	SG on post.	
16520	DULUTH MISSABE & IRON RANGE RAILWAY CO. ORE DOCK NO. 6 LIGHT	47-00-55.000N 091-40-30.000W	F R			On pile.	Private aid.
16525	Agate Bay Buoy 2	47-00-46.831N 091-40-00.967W				Red nun.	
16530	Agate Bay Buoy 4	47-00-54.009N 091-39-59.336W				Red nun.	
16535	Agate Bay Buoy 6	47-00-57.771N 091-40-12.556W				Red nun.	
16536	TWIN POINTS PROTECTED ACCESS LIGHT	47-09-54.65 N 091-25-30.250W	F R			On galvanized pipe.	Maintained from May 1 to Nov. 1. Private aid.
	BEAVER BAY TO PIGEON POINT (Chart 14967)						
16540	*NOAA Lighted Weather Buoy 45006*	47-20-05.636N 089-47-34.224W	Fl (4)Y 20s			Yellow disc-shaped hull with tripod mast.	Maintained from Apr. 1 to Nov. 1. Aid maintained by National Oceanic and Atmospheric Administration.
16545	PELLET ISLAND LIGHT	47-16-10.500N 091-16-03.000W	Fl G 10s	25 8			Maintained from Apr. 15 to Dec. 1. Private aid.
	Silver Bay *Aids maintained from Apr. 15 to Dec. 1.*						
16550	- *Lighted Buoy 1*	47-16-22.500N 091-15-55.000W	Fl G 4s			Green.	Private aid.
16555	- *Lighted Buoy 2*	47-16-39.300N 091-15-41.000W	Fl R 4s			Red.	Private aid.
16560	- *Lighted Buoy 3*	47-16-29.200N 091-16-10.100W	Fl G 4s			Green.	Private aid.
16565	- Buoy 4	47-17-45.000N 091-15-47.500W				Red nun.	Private aid.
16570	BEAVER ISAND LIGHT	47-16-48.300N 091-15-29.000W	Fl R 10s	20 6		Tower.	HORN: 1 blast ev 30s (3s bl). Private aid.
16575	- LEADING LIGHT	47-16-45.000N 091-15-58.400W	Fl G 4s	20 6		On black post.	Private aid.
16580	- LIGHT	47-17-11.300N 091-15-37.500W	Fl W 30s	126 38		On top of boiler house.	Private aid.
	Taconite Harbor *Buoys maintained from Apr. 1 to Dec. 31.*						
16585	- *West Entrance Lighted Buoy 1*	47-31-11.800N 090-55-27.500W	Fl G 4s			Green.	Private aid.
16590	- *West Entrance Lighted Buoy 2*	47-31-08.700N 090-55-21.300W	Fl R 4s			Red.	Private aid.
16595	- RANGE FRONT LIGHT	47-31-32.600N 090-55-06.900W	F G	86 26		On tower.	Visible 2° each side of centerline of channel. Private aid.
16600	- RANGE REAR LIGHT 1,550 feet, 028° from front light.	47-31-47.300N 090-54-55.000W	F G	154 47		On tower.	Visible 2° each side of center-line of channel. Private aid.
16604	- HARBOR OF REFUGE SOUTH BREAKWATER LIGHT	47-31-17.099N 090-55-27.980W	Iso W 4s	22 7		NW on tower worded CAUTION.	Ra ref. Private aid.
16605	- HARBOR OF REFUGE BREAKWATER LIGHT 3	47-31-15.900N 090-55-24.710W	Fl G 4s	22 7		SG on tower.	Ra ref. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	BEAVER BAY TO PIGEON POINT (Chart 14967)						
	Taconite Harbor						
	Buoys maintained from Apr. 1 to Dec. 31.						
16606	- HARBOR OF REFUGE INNER LIGHT	47-31-17.030N 090-55-24.950W	Q R	17 5		TR on tower.	Visible from 284° to 336°. Private aid.
16610	- WESTENTRANCE LIGHT 4	47-31-13.000N 090-55-16.000W	Fl R 4s	24 7		On tower.	Private aid.
16612	*University Of Minnesota Research Lighted Buoy*	46-51-36.000N 091-55-18.000W	Fl Y 4s			Meteorological Surface Buoy.	Private aid.
	Grand Marais						
16615	**- Light**	47-44-42.790N 090-20-16.376W	Fl W 2.5s	48 15	12	White square pyramidal skeleton tower with upper part enclosed.	Light Obscured from 170° to 190°. HORN: 2 blast ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying the microphone five times on VHF-FM channel 83A.
16625	- WEST BREAKWATER LIGHT 1	47-44-36.000N 090-20-24.000W	Fl G 4s	32 10	5	White cylindrical tower with green band.	
16630	- HARBOR INNER BREAKWATER LIGHT 7	47-44-51.800N 090-20-23.500W	Fl G 2.5s	14 4	4	SG on triangular tower.	
	BEAVER BAY TO PIGEON POINT (Chart 14967)						
16635	GRAND PORTAGE BAY ENTRANCE LIGHT	47-57-11.740N 089-38-21.350W	Fl W 4s	39 12	7	NR on skeleton tower.	
16645	GRAND PORTAGE PIER LIGHT	47-57-37.000N 081-40-54.000W	Fl W 2.5s	12 4		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
16650	*Hat Point Lighted Bell Buoy 1*	47-57-00.835N 089-38-40.350W	Fl G 4s		4	Green.	Maintained from May 28 to Oct. 14.
	ISLE ROYALE (Chart 14976)						
	Isle Royale						
16655	**Rock Of Ages Light**	47-51-59.456N 089-18-52.922W	Fl W 10s	130 40	12	White conical tower on cylindrical base.	
16660	- West End Buoy 2	47-51-00.748N 089-19-26.366W				Red nun.	
16670	Thompson Island Wreck Buoy	47-53-36.000N 089-13-18.000W				White with orange bands worded WRECK.	Maintained from Jun. 15 to Sep. 30. Private aid.
16675	WINDIGO DOCK LIGHT	47-54-47.000N 089-09-30.000W	Q R	11 3		On post.	Maintained from Jun. 15 to Sep. 30. Private aid.
16680	Cumberland Point Buoy 2	47-51-07.946N 089-14-36.981W				Red nun.	Maintained from May 28 to Oct. 14.
	Siskiwit Bay Passage						
16690	- Buoy 1	47-53-50.641N 088-53-12.625W				Green can.	
16695	- *Lighted Buoy 2*	47-53-52.419N 088-53-06.282W					
16700	- Buoy 3	47-54-03.807N 088-53-17.120W				Green can.	
	ISLE ROYAL (Chart 14967)						
16705	Harlem Reef Buoy 2	47-54-00.920N 088-50-12.540W				Red nun.	Maintained from May 28 to Oct. 14.
	ISLE ROYALE (Chart 14976)						
16710	ISLE ROYALE LIGHT	47-56-52.650N 088-45-40.340W	Fl W 6s	72 22	9	White octagonal tower with dwelling attached.	
	Malone Bay						
	Buoys maintained from May 28 to Oct. 14.						
16715	- Entrance Buoy 2	47-58-22.810N 088-47-34.900W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	ISLE ROYALE (Chart 14976)						
	Malone Bay						
	Buoys maintained from May 28 to Oct. 14.						
16720	- Entrance Buoy 3	47-58-24.380N 088-47-50.168W				Green can.	
16725	- Buoy 4	47-58-43.825N 088-48-16.876W				Red nun.	
16730	- Buoy 5	47-58-39.970N 088-48-17.240W				Green can.	
16745	Chippewa Harbor Daybeacon	48-01-45.600N 088-38-12.000W				NW on post.	Private aid.
	Rock Harbor						
16750	Barge Cove Buoy A	48-06-50.000N 088-32-07.000W				White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16755	Barge Cove Buoy B	48-06-49.000N 088-32-08.000W				White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16757	Dollar Bay Entrance Buoy 2	48-06-18.000N 088-22-10.000W				Red nun.	Maintained from Jun. 15 to Sep. 15. Private aid.
16760	MOTT ISLAND DOCK LIGHT	48-06-28.000N 088-32-59.000W	Q R	10 3		On post.	Maintained from Jun. 15 to Sep. 30. Private aid.
16765	SNUG HARBOR DOCK LIGHT	48-08-46.000N 088-29-12.000W	Q R	12 4		On post.	Maintained from Jun. 15 to Sep. 30. Private aid.
16766	Windigo Water Intake Buoy	47-54-38.000N 089-09-35.000W				White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16770	*Middle Island Passage Lighted Bell Buoy 2*	48-05-22.867N 088-34-14.651W	Fl R 4s		4	Red.	Replaced by nun from Oct 14 to May 28.
16775	Middle Island Passage Buoy 1	48-05-30.227N 088-34-25.650W				Green can.	
16780	Middle Island Passage Buoy 3	48-05-33.038N 088-34-30.103W				Green can.	
16785	Saginaw Point Daybeacon	48-03-36.000N 088-34-40.000W				NW on post.	Private aid.
16790	Mott Island Shoal East Buoy	48-06-22.000N 088-33-06.000W				White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16795	Mott Island Shoal West Buoy Marks rock ledge.	48-06-21.000N 088-33-10.000W				White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16800	Daisy Farm East Buoy Marks reef.	48-05-31.000N 088-35-39.000W				White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16805	Daisy Farm West Buoy	48-05-30.000N 088-35-37.000W				White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16810	Mccargoe Cove Entrance Buoy 1	48-06-52.000N 088-41-11.000W				Green can.	Maintained from Jun. 15 to Sep. 30. Private aid.
16815	Mccargoe Cove Entrance Buoy 2	48-06-49.000N 088-41-06.000W				Red nun.	Maintained from Jun. 15 to Sep. 30. Private aid.
16820	**Blake Point Light**	48-11-28.348N 088-25-20.541W	Fl W 2.5s	40 12	12	NR on skeleton tower.	
16825	Blake Point Five-Foot Shoal Buoy D Marks south side of shoal.	48-11-16.736N 088-24-09.904W				Black, red and black bands; can.	Maintained from May 28 to Oct. 14.
16830	Locke Point Buoy 2	48-11-17.006N 088-27-10.716W				Red nun.	Maintained from May 28 to Oct. 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE SUPERIOR				
	GRAND PORTAGE BAY TO SHESHEEB POINT (Chart 14968)						
16835	**Passage Island Light**	48-13-25.321N 088-21-56.073W	Fl W 5s	78 24	12	Octagonal tower.	RACON: G (- - .) HORN: 1 blast ev 30s (3s bl). Operates by keying the microphone five times on VHF-FM channel 83A.
16845	**Caribou Island Light (C)**	47-20-24.000N 085-49-30.000W	Fl W 15s 1s fl 14s ec.	99 30	20	Hexagonal structure.	RACON: C (- . - .) Emergency light. Seasonal.
16850	*NOAA Lighted Weather Buoy 45004*	47-35-06.979N 086-35-07.832W	Fl (4)Y 20s			Yellow disc-shaped hull with tripod mast.	Maintained from Apr. 1 to Nov. 1. Aid maintained by National Oceanic and Atmospheric Administration.
16855	**Michipicoten Harbor Light (C)**	47-56-36.000N 084-54-24.000W	Fl W 30s	88 27	18	Skeleton tower.	Seasonal. HORN: 2 blasts ev 60s (3s bl). Horn points 210°. Operates by keying mike 5 times on VHF-FM Ch. 19. Emergency light.
16865	**Slate Islands Light (C)**	48-37-18.000N 086-59-48.000W	Oc W 10s fl 5s ec.	224 68	23	White tower.	Emergency light.
16870	**Battle Island Light (C)**	48-45-06.000N 087-33-24.000W	Fl (3) W 24s fl 4s ec. fl 4s ec. fl 16s ec.	118 36	15	Tower.	Emergency light.
16880	*NOAA Lighted Weather Buoy 45001*	48-03-41.534N 087-47-30.447W	Fl (4)Y 20s		4	Yellow disc-shaped hull with tripod mast.	Maintained from Apr. 1 to Nov. 1. Aid maintained by National Oceanic and Atmospheric Administration.
16885	**Point Parphyry Light (C)**	48-20-25.000N 088-38-53.000W	Fl W 10s 1s fl 9s ec.	82 25	17	White slatted daymark on tower.	Fixed white between flashes. Emergency light.
16890	**Trowbridge Island Light (C)**	48-17-32.000N 088-52-30.000W	Fl W 5s	114 35	18	White octagonal tower.	Emergency light.
16895	**Angus Island Light (C)**	48-14-12.000N 089-00-24.000W	Fl W 20s	81 25	18	Skeleton tower on four concrete piers.	Emergency light.
	Thunder Bay						
16905	THUNDER CAPE LIGHT (C)	48-18-06.000N 088-56-18.000W	Fl W 4s	35 11	6	Red and white rectangular daymark on tower.	
16910	JARVIS ROCK LIGHT (C)	48-06-12.000N 089-17-36.000W	Fl W 4s	40 12	6	Red and white rectangular daymark on mast.	
16915	**- (Main) Light (C)**	48-26-00.000N 089-11-42.000W	Fl R 5s	49 15	14	White square tower.	Floodlighted. HORN: 3 blasts ev 60s (2s bl-3s si-2s bl-3s si-2s bl-48s si). Operates by keying the microphone five times on VHF-FM Ch. 79. Emergency light.
			MINNESOTA-ONTARIO BORDER LAKES				
	BIG TRAVERSE BAY (CHART 6211) (C) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
16925	PENASSE ISLAND LIGHT (C)	49-22-18.000N 094-57-30.000W	Fl W 4s	37 11	6	Red and white rectangular daymark on circular mast.	Visible from 181° to 076°.
16930	*Pine Creek Lighted Buoy 2*	49-21-08.800N 095-03-33.700W	Fl R 4s		3	Red.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MINNESOTA-ONTARIO BORDER LAKES				
	BIG TRAVERSE BAY (CHART 6211) (C)						
	Buoys and Lighted Buoys maintained from May 7 to Oct. 14.						
16932	Pine Creek Buoy 3	49-20-55.900N 095-03-31.900W				Green can.	
16935	Pine Creek Buoy 4	49-20-51.000N 095-03-35.100W				Red nun.	
16940	*Crow Creek Lighted Buoy 1*	49-21-18.900N 095-04-19.800W	Fl G 4s		4	Green.	
16945	Crow Creek Buoy 2	49-21-13.000N 095-04-29.700W				Red nun.	
16947	*Youngs Bay Lighted Buoy 1*	49-20-46.900N 094-57-51.600W	Fl G 6s		4	Green.	
16950	Brush Island Buoy 2	49-20-32.700N 094-55-46.200W				Red nun.	
16953	Flag Island Buoy 1	49-20-12.438N 094-52-53.022W				Green can	
16955	Flag Island Buoy 2	49-20-10.032N 094-52-54.618W				Red nun.	
16960	Flag Island Buoy 3	49-20-10.290N 094-52-48.648W				Green can.	
16963	DRIFTWOOD POINT LIGHT	49-12-46.000N 094-56-45.000W	Fl W 6s	35 11	3	NR on skeleton tower.	
16965	*Flag Island Lighted Buoy 4*	49-20-09.036N 094-52-50.736W	Fl R 4s		3	Red.	Permanent buoy. Light maintained from May 7 to Oct. 14.
16966	Flag Island Danger Buoy E	49-20-04.104N 094-52-48.966W				White / Organge can	
16967	Flag Island Danger Buoy W	49-20-07.932N 094-53-01.194W				White / Orange can	
16968	Flag Island Buoy 5	49-20-06.120N 094-52-44.622W				Green can	
16969	Flag Island Buoy 6	49-20-05.778N 094-52-47.298W				Red nun	
16970	BOUCHA ISLAND LIGHT (C)	49-17-42.000N 094-49-12.000W	Fl W 4s	38 12	6	Green and white banded daymark on mast.	
16975	OAK ISLAND LIGHT 1	49-18-08.880N 094-53-07.400W	Fl G 4s	39 12	3	SG on skeleton tower.	
16976	Oak Island Buoy 4	49-18-17.100N 094-49-23.760W				Red nun.	
16977	Oak Island Buoy 2	49-18-37.000N 094-49-27.200W				Red nun.	
16980	Sugar Point Rock Buoy 2	49-17-35.300N 094-54-14.900W				Red nun.	
16985	Stony Point Reef Buoy 2	49-08-09.500N 095-07-14.500W				Red nun.	
16990	BIRCH POINT LIGHT (C)	49-09-54.000N 095-14-00.000W	Fl W 4s	23 7		Fluorescent red and white banded rectangular daymark on mast.	
16995	*Buffalo Point Marina Entrance Lighted Buoy (C)*	49-02-30.000N 095-13-42.000W	Mo (A) W			Red and white stripes.	
17000	BUFFALO POINT LIGHT (C)	49-00-00.000N 095-13-54.000W	Fl W 4s	35 11	6	Red and white banded diamond daymark on mast.	
17005	*Warroad Lighted Buoy 2*	48-54-55.500N 095-17-08.700W	Fl R 4s		3	Red.	
17010	WARROAD JETTY LIGHT 4	48-54-30.167N 095-17-46.640W	Fl W 4s	38 12	3	TR on post.	
17011	*Warroad Lighted Buoy "3"*	48-54-27.540N 095-17-45.600W	Fl G 4s		3	Green.	
17013	Warroad Buoy "5"	48-54-24.420N 095-17-51.000W				Green can.	
17015	WARROAD RANGE FRONT LIGHT	48-54-03.578N 095-18-21.513W	F G	35 11		KRW on black skeleton tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MINNESOTA-ONTARIO BORDER LAKES				
	BIG TRAVERSE BAY (CHART 6211) (C)						
	Buoys and Lighted Buoys maintained from May 7 to Oct. 14.						
17020	WARROAD RANGE REAR LIGHT 1,070 feet, 223.6° from front light.	48-53-55.926N 095-18-32.554W	Oc W 4s	60 18		KRW on square skeleton tower.	
17025	GULL ROCK LIGHT	48-59-02.170N 095-03-33.530W	Fl W 4s	17 5	3	NR on skeleton tower.	
17030	Long Point East Shoal Buoy 1	48-58-08.300N 094-55-53.900W				Green can.	
	Zipple Bay						
17035	- *Lighted Buoy 1*	48-52-46.700N 094-51-07.000W	Fl G 4s		3	Green.	
17040	- LIGHT 2	48-52-24.000N 094-51-10.000W	Fl R 2.5s	30 9	3	White cylindrical tower.	
17045	- LIGHT 3	48-52-18.000N 094-51-00.000W	Fl G 2.5s	28 9	3	SG on post.	
17050	BRULE POINT LIGHT (C) Marks rocks.	49-07-54.000N 094-20-06.000W	Fl W 4s	30 9	6	Red and white rectangular daymark with black square in center on post.	
17055	ROCKY POINT LIGHT (C)	48-57-30.000N 094-32-18.000W	Fl W 4s	25 8	9	White daymark on post.	
17060	BURTON ISLAND LIGHT (C)	48-57-00.000N 094-37-00.000W	Fl W 4s	35 11	6	Florescent red and white rectangular daymark with black square in center on skeleton tower.	
17065	*Bell Buoy Shoal Lighted Buoy (C)*		Fl G 4s			Green.	
17070	OAK POINT LIGHT	48-52-35.000N 094-41-10.500W	Fl W 6s	34 10	3	NR on skeleton tower.	
	Four Mile Bay						
17073	- *Lighted Buoy 1*	48-52-59.000N 094-41-09.000W	Fl G 6s		4	Green.	
17075	- Buoy 2	48-52-54.000N 094-41-06.000W				Red nun.	
17077	- Buoy 4	48-52-50.000N 094-41-02.000W				Red nun.	
17079	- Buoy 6	48-52-43.000N 094-40-56.000W				Red nun.	
17079.1	- Buoy 7	48-52-44.000N 094-40-53.000W				Green can.	
17080	- Buoy 8	48-51-33.190N 094-41-27.066W				Red nun.	
17083	- *Lighted Buoy 9*	48-51-15.900N 094-41-31.000W	Fl G 4s		4	Green.	
17085	Rainy River Buoy 10	48-51-16.000N 094-41-36.000W				Red nun.	
17087	WHEELER POINT LIGHT 12	48-50-24.257N 094-41-13.968W	Fl R 4s	20 6	3	TR on skeleton tower.	
17089	Wheeler Point Buoy 14	48-50-19.116N 094-41-24.362W				Red nun.	
	Baudette Harbor						
17095	- Buoy 1	48-43-04.090N 094-35-27.972W				Green can.	
17100	- Buoy 2	48-43-03.600N 094-35-30.400W				Red nun.	
17105	- Buoy 3	48-42-50.574N 094-35-44.501W				Green can.	
17110	- Buoy 4	48-42-50.933N 094-35-46.542W				Red nun.	
17115	- Buoy 5	48-42-49.800N 094-35-46.900W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MINNESOTA-ONTARIO BORDER LAKES				
	BIG TRAVERSE BAY (CHART 6211) (C) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
	Baudette Harbor						
17120	- Buoy 6	48-42-50.172N 094-35-47.521W				Red nun.	
	RAINY LAKE - INTERNATIONAL FALLS TO DRYWEED ISLAND (Chart 14998) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
17125	FORT FRANCES RANIER BRIDGE LIGHT (C)	48-36-48.000N 093-22-00.000W	Fl G 4s	28 9		On post.	
17140	Rainy Lake Buoy 2	48-37-07.000N 093-20-49.900W				Red nun.	
17142	Rainy Lake Buoy 2 A	48-37-31.620N 093-20-25.440W					
17145	Rainy Lake Buoy 3	48-38-12.700N 093-15-48.300W				Green can.	
17150	FRANSEN ISLAND LIGHT 2A	48-37-39.670N 093-15-04.970W	Fl R 4s	20 6	3	TR on skeleton tower.	
17155	Red Sucker Island Buoy 4	48-37-51.900N 093-11-38.600W				Red nun.	
17160	Red Sucker Island Buoy 6	48-37-32.700N 093-11-04.800W				Red nun.	
17165	BALD ROCK LIGHT	48-37-26.580N 093-10-53.780W	Fl W 4s	35 11	3	NB on skeleton tower.	
17170	Rainy Lake Buoy 7	48-33-36.200N 093-06-48.200W				Green can.	
	RAINY LAKE - DRYWEED ISLAND TO BIG ISLAND (Chart 14997) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
17175	Rainy Lake Buoy 8	48-37-24.000N 093-05-07.800W				Red nun.	
17180	CAPSTAN REEF LIGHT (C)	48-38-06.000N 093-03-00.000W	Fl W 4s	17 5	6	White structure.	Radar reflector.
17185	Olsons Reef Buoy 10OR	48-36-57.900N 092-59-34.900W				Red nun.	
	RAINY LAKE - INTERNATIONAL FALLS TO DRYWEED ISLAND (Chart 14998) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
17190	ROBERTS ISLAND LIGHT 2	48-37-08.830N 093-15-57.520W	Fl R 4s	27 8	3	TR on skeleton tower.	
	Canoe Channel						
17195	- Daybeacon 4 Marks rocks.	48-36-58.150N 093-15-37.240W				TR on skeleton tower.	
17200	- Daybeacon 5 Marks rock.	48-36-57.740N 093-15-28.060W				SG on skeleton tower.	
17205	- Buoy 7 Marks rock.	48-36-54.700N 093-15-01.900W				Green can.	
17210	- Daybeacon 8 Marks rock.	48-36-51.060N 093-14-51.230W				TR on skeleton tower.	
17215	- Daybeacon 10 Marks rock awash.	48-36-38.590N 093-14-15.680W				TR on skeleton tower.	
17220	- Daybeacon 12	48-36-28.950N 093-13-53.790W				TR on skeleton tower.	
17225	- Buoy 14	48-36-26.000N 093-13-15.600W				Red nun.	
17230	- Daybeacon 15 Marks submerged rock.	48-36-31.610N 093-12-25.770W				SG on skeleton tower.	
17235	- Buoy 16 Marks rock.	48-36-33.700N 093-11-06.600W				Red nun.	
17240	- LIGHT 17 Marks shoal.	48-36-27.550N 093-10-54.880W	Fl G 2.5s	21 6	3	SG on skeleton tower.	
17245	Fraser Island Buoy 17A Marks south side of shoal.	48-36-14.000N 093-09-33.600W				Green can.	
17250	Big American Island Daybeacon 19	48-36-14.800N 093-09-01.240W				SG on pile.	
17252	- Buoy 20	48-36-16.237N 093-07-51.473W				Red nun.	
17255	South Shore Buoy 1	48-36-23.700N 093-06-05.700W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MINNESOTA-ONTARIO BORDER LAKES				
	RAINY LAKE - DRYWEED ISLAND TO BIG ISLAND (Chart 14997)						
	Buoys and Lighted Buoys maintained from May 7 to Oct. 14.						
17260	South Shore Buoy 3	48-36-29.700N 093-05-00.100W				Green can.	
17265	South Shore Buoy 5	48-36-20.700N 093-04-30.500W				Green can.	
17267	South Shore Buoy 6	48-36-15.798N 093-04-30.979W				Red nun.	
17270	South Shore Buoy 7	48-36-22.400N 093-02-57.200W				Green can.	
17275	South Shore Buoy 8	48-36-21.400N 093-01-40.100W				Red nun.	
17277	South Shore Buoy 9	48-36-29.424N 093-01-28.920W				Green can.	
17280	South Shore Buoy 10	48-36-13.300N 092-59-49.700W				Red nun.	
17285	*Rainy Lake Lighted Buoy 12*	48-36-25.863N 092-57-37.017W	Fl R 4s		4	Red.	
17290	Rainy Lake Buoy 13	48-36-26.200N 092-57-35.600W				Green can.	
17295	Rainy Lake Buoy 15	48-36-23.700N 092-57-13.100W				Green can.	
17300	Rainy Lake Buoy 16	48-36-22.200N 092-56-32.600W				Red nun.	
17305	MACKENZIE ISLAND LIGHT (C)	48-36-30.000N 092-56-24.000W	Fl W 4s	26 8	6	White diamond daymark on post.	Visible from 290° to 110°.
	Brule Narrows						
17310	- Buoy 18	48-36-15.600N 092-55-35.100W				Red nun.	
17315	- Buoy 19	48-36-15.100N 092-55-29.700W				Green can.	
17320	- Buoy 20	48-36-05.200N 092-55-12.800W				Red nun.	
17325	- Buoy 22	48-36-03.700N 092-55-08.700W				Red nun.	
17330	- Buoy 24	48-36-03.200N 092-55-06.000W				Red nun.	
17335	- Buoy 26	48-35-53.300N 092-54-47.200W				Red nun.	
17340	BRULE ISLAND LIGHT (C)	48-35-48.000N 092-54-00.000W	Fl W 4s	22 7	5	Lattice tower on concrete base.	
17345	- Buoy 28	48-35-43.300N 092-53-55.100W				Red nun.	
17350	- Buoy 29	48-35-40.200N 092-53-45.400W				Green can.	
17355	- Buoy 29A	48-35-33.300N 092-53-40.700W				Green can.	
17360	- Buoy 30	48-35-30.900N 092-53-40.800W				Red nun.	
17365	- Buoy 31	48-35-31.700N 092-53-38.900W				Green can.	
17367	Soldiers Point Daybeacon 30a	48-26-30.000N 092-30-50.000W				TR on skeleton tower.	
17370	- *Lighted Buoy 32*	48-35-29.200N 092-53-39.000W	Fl R 4s		4	Red.	
17375	RAINY LAKE LIGHT 34	48-33-33.860N 092-53-14.470W	Fl R 4s	5 2	3	TR on skeleton tower.	
17380	Hitchcock Bay Buoy 35	48-33-09.500N 092-53-11.500W				Green can.	
17385	Hitchcock Bay Buoy 35A	48-32-53.400N 092-53-03.800W				Green can.	
17390	Hitchcock Island Daybeacon 36	48-32-47.000N 092-53-13.000W				TR on skeleton tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	MINNESOTA-ONTARIO BORDER LAKES						
	RAINY LAKE - BIG ISLAND TO OAK POINT ISLAND (Chart 14996) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
	Rainy Lake						
17395	GULL ROCKS LIGHT (C) Marks rock.	48-33-48.000N 092-46-36.000W	Fl W 4s	29 9		White rectangular daymark on mast.	
17400	- Buoy 37	48-32-22.700N 092-45-02.700W				Green can.	
17405	- Buoy 38	48-32-16.800N 092-39-50.500W				Red nun.	
17410	- Buoy 39	48-32-10.200N 092-38-38.700W				Green can.	
17415	- Buoy 41	48-31-25.970N 092-37-47.188W				Green can.	
17420	SURVEYOR'S ISLAND LIGHT 43	48-31-03.280N 092-37-41.110W	Fl G 4s		4	SG on skeleton tower.	
	Kettle Channel						
17425	- Buoy 2	48-31-02.100N 092-37-43.000W				Red nun.	
17430	- Buoy 4	48-30-45.200N 092-37-32.300W				Red nun.	
17435	- Buoy 6	48-30-38.600N 092-37-40.700W				Red nun.	
17440	- Buoy 7	48-30-24.300N 092-37-52.700W				Green can.	
17445	- Buoy 8	48-30-06.400N 092-37-45.100W				Red nun.	
	EASTERN KABETOGAMA LAKE AND WESTERN NAMAKAN LAKE (Chart 14994) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
	Namakan Lake						
17450	Mica Island Daybeacon 2	48-29-47.670N 092-41-38.290W				TR on skeleton tower.	
17455	Mica Island Daybeacon 2A	48-29-47.500N 092-41-45.000W				TR on skeleton tower.	
17460	Squaw Narrows Daybeacon 4	48-29-00.820N 092-42-10.230W				TR on skeleton tower.	
17465	Gagnon Island Buoy 5	48-28-47.500N 092-42-27.500W				Green can.	
17470	Gagnon Point Daybeacon 6	48-28-21.847N 092-43-11.545W				TR on skeleton tower.	
17475	Arrowhead Island Buoy 7	48-28-17.600N 092-43-01.600W				Green can.	
17480	Alden Island Buoy 9	48-28-02.600N 092-43-01.700W				Green can.	
17485	Bivo Island Daybeacon 11	48-27-42.510N 092-42-51.020W				SG on skeleton tower.	
17490	Bivo Island Buoy 13	48-27-39.000N 092-42-51.500W				Green can.	
17495	- Buoy 14	48-27-32.500N 092-42-48.500W				Red nun.	
17500	- Buoy 16	48-27-16.800N 092-43-17.500W				Red nun.	
17505	Kubel Island Buoy 18	48-27-15.100N 092-43-37.500W				Red nun.	
17510	Sexton Island Buoy 20	48-26-54.600N 092-44-51.600W				Red nun.	
17515	Cemetary Island Buoy 22	48-26-47.400N 092-45-27.700W				Red nun.	
17520	Sweetnose Island Daybeacon 23	48-26-39.590N 092-46-30.850W				SG on skeleton tower.	
17525	Sweetnose Island Buoy 24	48-26-42.300N 092-46-36.900W				Red nun	
17530	- Daybeacon 26 Marks rock awash.	48-26-18.000N 092-47-06.000W				TR on post.	
17535	- *Lighted Buoy 27*	48-25-50.680N 092-47-38.311W	Fl G 4s		3	Green.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	MINNESOTA-ONTARIO BORDER LAKES						
	EASTERN KABETOGAMA LAKE AND WESTERN NAMAKAN LAKE (Chart 14994) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
	Kabetogama Lake						
17540	- Buoy 29	48-26-10.700N 092-48-35.500W				Green can.	
17545	- Buoy 31	48-26-15.000N 092-51-00.800W				Green can.	
17550	- Warning Daybeacon	48-26-10.000N 092-51-00.000W				NW on post.	
17555	- Buoy 32	48-26-21.700N 092-53-03.500W				Red nun.	
17560	Green Island Buoy 34	48-26-24.700N 092-53-53.900W				Red nun.	
17565	Feedem Island Buoy 36	48-27-00.800N 092-55-20.700W				Red nun.	
17570	Knox Island Daybeacon 37	48-27-01.220N 092-55-48.230W				SG on skeleton tower.	
17575	- Junction Buoy	48-27-13.100N 092-56-11.100W				Green and red bands; can.	
17580	- Buoy 38	48-27-52.600N 092-57-43.500W				Red nun.	
17585	- Buoy 39	48-28-02.000N 092-58-17.900W				Green can.	
17590	Pin Cherry Buoy 38A	48-28-26.500N 092-58-59.500W				Red nun.	
	WESTERN KABETOGAMA LAKE (Chart 14995) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
	Kabetogama Lake						
17595	- Buoy 40	48-28-51.600N 093-00-26.400W				Red nun.	
17600	- Buoy 42	48-28-46.000N 093-00-48.200W				Red nun.	
17605	- Buoy 44	48-29-18.000N 093-03-33.800W				Red nun.	
	EASTERN KABETOGAMA LAKE AND WESTERN NAMAKAN LAKE (Chart 14994) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
17610	Martin Island Buoy 1	48-27-24.300N 092-59-03.600W				Green can.	
	WESTERN KABETOGAMA LAKE (Chart 14995) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
17615	Ram Island Buoy 4	48-28-24.200N 093-01-58.800W				Red nun.	
17620	VOYAGEURS NATIONAL PARK BREAKWATER LIGHT	48-26-32.500N 093-01-46.000W	Q R	25 8		TR on post.	Private aid.
	EASTERN KABETOGAMA LAKE AND WESTERN NAMAKAN LAKE (Chart 14994) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
17625	Namakan Island Daybeacon N Marks bifurcation of Namakan and Kabetogama Lakes.	48-27-06.000N 092-42-48.000W				NR on skeleton tower.	
17630	Fox Island Daybeacon 4	48-26-12.000N 092-39-59.000W				TR on skeleton tower.	
17635	Randolph Island Buoy 6	48-26-04.100N 092-39-14.900W				Red nun.	
17640	Pike Island Daybeacon 8	48-26-08.000N 092-35-43.000W				TR on skeleton tower.	
	NAMAKAN LAKE - EASTERN PART (Chart14993) *Buoys and Lighted Buoys maintained from May 7 to Oct. 14.*						
17645	YOUR ISLAND LIGHT 9	48-26-29.000N 092-30-50.000W	Fl G 6s	25 8	3	SG on skeleton tower.	
17650	Your Island Buoy 10	48-26-21.600N 092-30-19.100W				Red nun.	
17655	Namakan Narrows Daybeacon 12	48-26-11.000N 092-29-43.000W				TR on skeleton tower.	
17660	Namakan Narrows Daybeacon 14	48-25-31.500N 092-28-51.000W				TR on skeleton tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MINNESOTA-ONTARIO BORDER LAKES				
	NAMAKAN LAKE - EASTERN PART (Chart14993)						
	Buoys and Lighted Buoys maintained from May 7 to Oct. 14.						
17665	Sand Point Buoy 16	48-24-56.400N 092-27-51.400W				Red nun.	
17670	Sand Point Buoy 18	48-24-38.200N 092-27-24.200W				Red nun.	
17675	Burnt Island Daybeacon 20	48-24-10.000N 092-27-30.000W				TR on skeleton tower.	
17680	Sand Point Buoy 22	48-22-01.800N 092-28-42.300W				Red nun.	
	SAND POINT LAKE TO LAC LA CROIX (Chart 14992)						
	Buoys and Lighted Buoys maintained from May 7 to Oct. 14.						
17685	King Williams Narrows Buoy 24	48-20-05.100N 092-27-55.500W				Red nun.	
17690	King Williams Narrows Buoy 25	48-19-49.800N 092-27-56.700W				Green can.	
17695	King Williams Narrows Buoy 27	48-19-39.500N 092-27-52.200W				Green can.	
17700	Crane Lake Buoy 28	48-17-58.000N 092-28-09.800W				Red nun.	
17705	Crane Lake Buoy 29	48-17-35.000N 092-28-17.100W				Green can.	
17710	Indian Island Buoy 30	48-17-30.700N 092-27-56.900W				Red nun.	
17715	Bear Island Buoy 32	48-16-40.600N 092-28-07.500W				Red nun.	
			LAKE MICHIGAN				
	DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)						
17720	ST HELENA LIGHT	45-51-17.986N 084-51-48.931W	Fl W 6s	71 22	6	White conical tower connected to dwelling.	
17722	*Sandusky Wreck Mooring Buoy*	45-47-58.140N 084-50-15.300W					Private aid.
17723	*Maitland Wreck Mooring Buoy*	45-48-15.000N 084-52-32.820W					Private aid.
17725	St Helena Southeast Shoal Buoy 1	45-50-59.366N 084-51-16.728W				Green can.	
17730	St Helena Shoal Buoy SHS Marks south side of shoal.	45-51-46.699N 084-55-25.241W				Red and green bands; nun.	
	WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)						
17735	Manitou Paymen Shoal Buoy 2 Marks southwest side of shoal.	45-57-29.829N 085-04-36.215W				Red nun.	
17740	*New Shoal Lighted Buoy 1*	45-49-16.280N 085-05-16.788W	Fl G 4s		5	Green.	Maintained from Apr. 21 to Dec. 14. AIS MMSI: 993672238
17745	*New Shoal Lighted Bell Buoy 3*	45-48-53.619N 085-08-00.517W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr. 21. AIS MMSI: 993672239
17750	**White Shoal Light** Marks east side of shoal.	45-50-30.074N 085-08-08.420W	Fl W 5s	125 38	11	Red and white spiral bands on conical crib. 125	RACON: K (- . -) HORN: 1 blast ev 30s (3s bl).
17755	White Shoal Buoy Marks southwest side of shoal.	45-50-10.625N 085-09-55.455W				Red and green bands; nun.	
17760	*Simmons Reef Lighted Bell Buoy 2* Marks south side of reef.	45-54-08.325N 085-12-58.713W	Fl R 4s		4	Red.	Maintained from Apr. 21 to Nov. 28.
	Grays Reef Passage Channel						
17765	*- Lighted Buoy 5*	45-46-51.927N 085-08-17.947W	Fl G 4s		5	Green.	Maintained from Apr 21 to 14 Dec

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)						
	Grays Reef Passage Channel						
17770	- *Lighted Bell Buoy 4*	45-46-56.027N 085-09-03.549W	Fl R 4s		4	Red.	Maintained from Apr 21 to 14 Dec
17775	**Grays Reef Light**	45-45-56.590N 085-09-13.611W	Fl R 10s	82 25	14	Square tower. 82	RACON: G (- - .) Obscured from 080° to 170°. HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si).
17780	- *Lighted Buoy 7*	45-45-44.377N 085-08-29.152W	Fl G 4s		5	Green.	Replaced by can from Dec. 14 to Apr. 21. AIS MMSI: 993672227
	WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)						
17785	Ile Aux Galets Buoy 2 Marks east side of shoal.	45-40-58.829N 085-08-06.838W				Red nun.	
17790	Ile Aux Galets Buoy 9 Marks northwest side of shoal.	45-40-56.840N 085-11-03.023W				Green can.	
17795	**Ile Aux Galets Light**	45-40-34.936N 085-10-19.653W	Fl W 6s	58 18	11	White octagonal tower. 58	
17800	Dahlia Shoal Buoy 1 Marks southwest side of shoal.	45-37-31.627N 085-12-47.945W				Green can.	
17805	Hog Island Reef Buoy 10 Marks east side of reef.	45-43-13.015N 085-20-19.278W				Red nun.	Seasonal maintained from 21 Apr to 14 Nov
17810	*Beaver Island Shoal Northeast End Lighted Buoy 1*	45-45-48.845N 085-29-41.146W	Fl G 4s		3	Green.	Maintained from May 7 to Nov. 14.
	St. James Harbor						
17815	- Buoy 1	45-43-57.797N 085-29-44.712W				Green can.	
17820	- Buoy 2	45-44-18.697N 085-29-39.713W				Red nun.	
17825	- *Lighted Buoy 4*	45-44-26.518N 085-30-31.674W	Fl R 4s		4	Red.	Replaced by nun from Nov. 14 to May 7.
17830	- Buoy 6	45-44-46.495N 085-31-00.616W				Red nun.	Maintained from May 7 to Nov. 14.
17835	- Buoy 7	45-44-52.795N 085-30-55.716W				Green can.	Maintained from May 7 to Nov. 14.
17840	- Buoy 8	45-44-51.795N 085-30-54.116W				Red nun.	Maintained from May 7 to Nov. 14.
17845	**St. James Light**	45-44-34.030N 085-30-31.010W	Iso R 6s	38 12	11	Cylindrical tower. 38	Light obscured from 127°30` to 199°30`.
	WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)						
17850	*Stony Point Shoal Lighted Bell Buoy 1* Marks east side of shoal.	45-43-12.017N 085-28-48.062W	Fl G 6s		4	Green.	Replaced by can from Nov. 14 to May 7.
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
	Harbor Springs						
17855	LITTLE TRAVERSE LIGHT	45-25-09.078N 084-58-38.682W	Fl G 6s	72 22	8	White skeleton tower.	
17860	- *Special Anchorage Lighted Buoy B*	45-25-35.000N 084-59-07.000W	Fl W 2s			White.	Maintained from Apr. 1 to Nov. 1. Private aid.
17865	STATE STREET PIER LIGHT	45-25-43.300N 084-59-16.300W	F R			On top of restaurant with white roof.	Maintained from Apr. 1 to Dec. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
	Harbor Springs						
17870	SPRING STREET PIERHEAD LIGHT	45-25-45.000N 084-59-26.000W	F R			On dock.	Maintained from Apr. 1 to to Dec. 1. Private aid.
	Ford Park Channel						
	Buoys maintained from Apr. 1 to Nov. 1.						
17875	- *Lighted Buoy 1*	45-25-35.000N 084-58-55.200W	Fl G 2s			Green.	Private aid.
17880	- *Lighted Buoy 2*	45-25-35.000N 084-58-53.000W	Fl R 2s			Red.	Private aid.
17885	- *Lighted Buoy 3*	45-25-35.000N 084-59-07.000W	Fl G 2s			Green.	Private aid.
17890	- *Lighted Buoy 4*	45-25-35.000N 084-59-07.000W	Fl R 2s			Red.	Private aid.
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
17895	WALSTROM MARINE LIGHT 1	45-25-43.100N 084-58-44.800W	Q G	8 2		On post.	Maintained from Jun. 1 to Oct. 1. Private aid.
17900	WALSTROM MARINE LIGHT 2	45-35-43.200N 084-58-43.900W	Q R	9 3		On post.	Maintained from Jun. 1 to Oct. 1. Private aid.
	Harbor Springs						
17902	*Zoll Street Channel Lighted Buoy 1*	45-25-33.600N 084-58-53.390W	Fl G 4s				Private aid.
17902.1	*Zoll Street Channel Lighted Buoy 2*	45-25-33.500N 084-58-56.890W	Fl R 4s				Private aid.
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
17905	*Harbor Springs Special Anchorage Lighted Buoy A*	45-25-35.000N 084-58-24.800W	Fl W 2s			White.	Maintained from Apr. 1 to Nov. 1. Private aid.
	Petoskey						
17915	- LIGHT	45-22-48.337N 084-57-41.356W	Fl R 2.5s	44 13	4	White cylindrical tower.	
	LAKE CHARLEVOIX (Chart 14942)						
	Charlevoix						
17920	**- North Pierhead Light**	45-19-14.892N 085-15-53.796W	Fl G 2.5s	20 6	10	SG on post. 20	
17925	**- South Pierhead Light**	45-19-12.930N 085-15-53.748W	Fl R 4s	41 13	10	41	HORN: 1 blast ev 30s (3s bl). Operate the fog signal by keying the microphone on channel 83A VHF marine radio five times.
17930	Round Lake Special Anchorage Buoy A	45-19-08.981N 085-15-23.375W				Yellow can.	Maintained from Apr. 14 to Nov. 14.
17935	Round Lake Special Anchorage Buoy B	45-19-07.573N 085-15-19.701W				Yellow can.	Maintained from Apr. 14 to Nov. 14.
17940	Round Lake Special Anchorage Buoy C	45-19-00.936N 085-15-06.318W				Yellow can.	Maintained from Apr. 14 to Nov. 14.
17945	PINE RIVER LIGHT 3	45-18-56.500N 085-14-44.200W	Fl G 2.5s	10 3	5	SG on skeleton tower.	
17950	*Pine River Channel Lighted Buoy 2*	45-18-52.824N 085-14-41.111W	Fl R 4s		3	Red.	Maintained from Apr. 14 to Nov. 14.
17955	NORTHWEST MARINE YACHT BASIN LIGHT 4	45-18-26.000N 085-14-43.000W	F R	7 2		TR on pile.	Maintained from May 15 to Nov. 1. Private aid.
17960	NORTHWEST MARINE YACHT BASIN LIGHT 1	45-18-24.000N 085-14-40.000W	F G	6 2		SG on tripod.	Maintained from May 15 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	LAKE CHARLEVOIX (Chart 14942)						
	Charlevoix						
17965	NORTHWEST MARINE YACHT BASIN LIGHT 3	45-18-24.000N 085-14-43.000W	F G	7 2		SG on pile.	Maintained from May 15 to Nov. 1. Private aid.
	Belvedere Club Dock *Lights maintained from May 1 to Nov. 15.*						
17970	- LIGHT A	45-18-57.000N 085-14-57.500W	F R	6 2		On pile.	Private aid.
17975	- LIGHT B	45-18-57.000N 085-14-57.500W	F R	6 2		On pile.	Private aid.
17980	- LIGHT C	45-18-57.000N 085-18-57.000W	F R	6 2		On pile.	Private aid.
17985	- LIGHT D	45-18-57.000N 085-14-57.500W	F R	6 2		On pile.	Private aid.
	Charlevoix Floating Breakwall *Lights maintained from Apr. 1 to Nov. 1.*						
17990	- LIGHT	45-18-08.000N 085-14-44.200W	Fl W 4s			On floating breakwall.	Private aid.
17995	- LIGHT	45-18-08.000N 085-14-44.200W	Fl W 4s			On floating breakwall.	Private aid.
18000	- LIGHT	45-18-08.000N 085-14-44.200W	Fl W 4s			On floating breakwall.	Private aid.
18005	- LIGHT	45-18-08.000N 085-14-44.200W	Fl W 4s			On floating breakwall.	Private aid.
	Charlevoix						
18010	IRISH BOAT SHOP STOVER ROAD LIGHT 2	45-18-07.000N 085-14-45.000W	Oc R 4s	12 4		On post.	Private aid.
18015	IRISH BOAT SHOP STOVER ROAD LIGHT 1	45-18-07.000N 085-14-45.000W	F G	12 4		On post.	Private aid.
18020	IRISH BOAT SHOP FERRY AVENUE LIGHT 2	45-18-19.980N 085-14-44.760W	Fl R 4s	4 1		On post.	Maintained from May 1 to Nov 1. Private aid.
18025	IRISH BOAT SHOP FERRY AVENUE LIGHT 1	45-18-31.000N 084-14-45.500W	Fl G 2.5s	4 1		On post.	Maintained from May 1 to Nov 1. Private aid.
18036	PINE LAKE CLUB MARINA ENTRANCE LIGHT 1	45-17-39.200N 085-14-35.500W	Fl G 2.5s	8 2		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
18037	PINE LAKE CLUB MARINA ENTRANCE LIGHT 2	45-17-39.000N 085-14-36.800W	F R	8 2		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
18040	OYSTER BAY MARINA LIGHT 2	45-18-58.900N 085-12-18.000W	F R	12 4		TR on pile.	Maintained from Apr. 1 to Dec. 1. Private aid.
18045	OYSTER BAY MARINA LIGHT 1	45-18-59.100N 085-12-18.000W	F G	12 4		SG on pile.	Maintained from Apr. 1 to Dec. 1. Private aid.
18046	Old Lumber Crane Crib Buoy	45-19-06.000N 085-14-25.200W				White with orange bands.	Maintained from May 10 to Oct. 30. Private aid.
	Haters Dock *Lights maintained from May 15 to Oct. 15.*						
18050	- LIGHT 2	45-14-52.000N 085-10-43.000W	F R	7 2		On pile.	Private aid.
18055	- LIGHT 4	45-14-51.200N 085-10-42.500W	F R	7 2		On pile.	Private aid.
18060	- LIGHT 6	45-14-19.200N 085-10-21.900W	F R	9 3		On post.	Private aid.
18065	- LIGHT 8	45-14-18.200N 085-10-22.000W	F R	9 3		On post.	Private aid.
18067	*Horse Point Lighted Buoy 3*	45-13-49.860N 085-03-42.906W	Fl G 4s		3	Green.	Maintained from Apr. 14 to Nov. 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	LAKE CHARLEVOIX (Chart 14942)						
	Boyne City						
	Harborage Marina						
	Lights maintained from Apr. 1 to Dec. 1.						
18070	- WEST ENTRANCE LIGHT 2	45-12-37.500N 085-01-21.000W	Q R	10 3		TR on pile.	Private aid.
18075	- WEST ENTRANCE LIGHT 1	45-12-38.500N 085-01-19.000W	Q G	10 3		SG on post.	Private aid.
18080	- EAST BREAKWATER LIGHT	45-12-42.000N 085-01-14.000W	Q W	10 3		NW on post worded DANGER.	Private aid.
18085	- EAST ENTRANCE LIGHT 2	45-12-45.000N 085-01-10.000W	Q R	10 3		TR on post.	Private aid.
18090	- EAST ENTRANCE LIGHT 1	45-12-43.000N 085-01-08.000W	Q G	10 3		SG on post.	Private aid.
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
18095	MEDUSA CHANNEL BREAKWATER LIGHT	45-19-09.000N 085-17-25.000W	Fl R 4s	24 7		On gray pile.	Maintained from Apr. 15 to Dec. 15. Private aid.
18100	*South Point Lighted Bell Buoy 2* Marks shoal.	45-19-35.597N 085-17-59.367W	Fl R 4s		4	Red.	Replaced by nun from Nov. 14 to May. 01.
	Grand Traverse Bay						
18105	Fisherman Island Shoal Buoy 1	45-17-51.217N 085-22-10.871W				Green can.	
18110	**Grand Traverse Light**	45-12-37.740N 085-33-01.110W	Fl W 6s	50 15	14	NR on skeleton tower. 50	The light is visible from 260 to 065 degrees true
18115	- *Shoal Lighted Bell Buoy 3* Marks northwest side of shoal.	45-08-07.800N 085-26-12.000W	Fl G 4s		4	Green.	Replaced by can from Nov. 14 to May. 01.
18120	*Northport Point Lighted Bell Buoy 2* Marks south side of shoal.	45-07-44.799N 085-33-12.503W	Fl R 4s		4	Red.	Replaced by nun from Nov. 14 to May. 01.
18125	Northport Bay Shoal Buoy 4 Marks southeast side of shoal.	45-07-44.954N 085-33-58.825W				Red nun.	
18130	Northport Bay Shoal Buoy 6 Marks southwest side of shoal.	45-07-40.897N 085-35-09.503W				Red nun.	
18135	NORTHPORT WEST LIGHT 2	45-07-48.800N 085-36-40.700W	Q R	18 5		TR on post.	Visible from 090° to 135°. Maintained from May 15 to Dec. 1. Private aid.
18140	NORTHPORT EAST LIGHT 1	45-07-48.000N 085-36-39.000W	Q G	18 5		SG on post.	Maintained from May 15 to Dec. 1. Private aid.
18145	MISSION POINT LIGHT	45-01-05.630N 085-30-21.700W	Fl W 6s	41 13	6	White cylindrical tower.	
18150	Omena Buoy 2	45-02-04.000N 085-34-19.000W				Red nun.	Maintained from May 1 to Oct. 1. Private aid.
18152	ARTHUR DUHAMEL MARINA LIGHT 1	45-01-56.100N 085-35-51.000W	Fl G 2.5s	23 7			Private aid.
18153	ARTHUR DUHAMEL MARINA LIGHT 2	45-01-57.000N 085-35-55.020W	Fl R 2.5s	23 7			Private aid.
	Elk Rapids						
18155	- *Lighted Buoy 1*	44-54-09.500N 085-25-04.800W	Fl G 2.5s			Green.	Maintained from May 15 to Oct. 15. Private aid.
18157	- *Lighted Buoy 2*	44-54-08.800N 085-25-06.100W	Fl R 2.5s			Red.	Maintained from May 15 to Oct. 15. Private aid.
18160	- BREAKWATER LIGHT 3	44-54-07.100N 085-25-03.100W	Fl G 4s	16 5		SG on pile.	Maintained from May 15 to Oct. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
	Elk Rapids						
18162	- BREAKWATER LIGHT 4	44-54-06.600N 085-25-05.000W	Fl R 4s	14 4		TR on pile.	Maintained from May 15 to Oct. 15. Private aid.
18165	- Buoy 6	44-54-04.300N 085-25-03.400W				Red nun.	Maintained from May 15 to Oct. 15. Private aid.
18167	- Buoy 8	44-54-03.000N 085-25-03.000W				Red nun.	Maintained from May 15 to Oct. 15. Private aid.
18170	- RANGE FRONT LIGHT	44-54-02.000N 085-25-01.800W	F R (NIGHT) F W (DAY)	16 5		KWR on black post.	Maintained from May 15 to Oct. 15. Private aid.
18175	- REAR RANGE LIGHT 490 feet, 159.5° from front light.	44-53-57.100N 085-24-59.700W	F R (NIGHT) F W (DAY)	24 7		KWR on black post.	Maintained from May 15 to Oct. 15. Private aid.
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
18180	EAST BAY HARBOR NORTH BREAKWATER LIGHT	44-46-02.500N 085-30-25.000W	Q G	8 2		On post.	Maintained from May 1 to Nov. 1. Private aid.
18185	EAST BAY HARBOR SOUTH BREAKWATER LIGHT	44-46-00.000N 085-30-25.000W	Fl R 5s	8 2		On post.	Maintained from May 1 to Nov. 1. Private aid.
	Grand Traverse Bay						
18186	*West Grand Traverse Bay Research Lighted Buoy*	45-11-02.000N 085-27-09.000W	Q Y			Orange Research Buoy w/mast.	Maintained from APR 01 TO NOV 30. Private aid.
18187	- *Research Lighted Buoy*	45-04-00.000N 085-29-50.000W	Q Y			Yellow Research Buoy w/mast	Maintained from APR 01 TO NOV 30. Private aid.
	Suttons Bay						
18190	- YACHT CLUB BASIN LIGHT 2	44-59-00.300N 085-38-28.000W	Fl R 2.5s	20 6		TR on post.	Maintained from May 15 to Oct. 15. Private aid.
18195	- YACHT BASIN OBSTRUCTION LIGHT	44-59-00.300N 085-38-28.000W	Fl W 2.5s	20 6		NW on post worded DANGER.	Maintained from May 15 to Oct. 15. Private aid.
18200	- Yacht Club Entrance Buoy 3	44-59-00.300N 085-38-28.000W				Green can.	Maintained from May 15 to Oct. 15. Private aid.
18205	- Municipal Entrance Buoy 2S	44-58-33.900N 085-38-41.000W				Red nun.	Maintained from May 1 to Nov. 1. Private aid.
18210	- Municipal Entrance Buoy 3	44-58-31.200N 085-38-43.200W				Green can.	Maintained from May 1 to Nov. 1. Private aid.
18215	- Municipal Entrance Buoy 4	44-58-32.100N 085-38-42.000W				Red nun.	Maintained from May 1 to Nov. 1. Private aid.
18220	- MUNICIPAL DOCK LIGHT 6	44-58-33.000N 085-38-43.500W	Q R	17 5		TR on white post.	Maintained from May 1 to Nov. 30. Private aid.
18225	- MUNICIPAL DOCK LIGHT 7	44-58-30.800N 085-38-44.200W	Q G	17 5		SG on white post.	Maintained from May 1 to Nov. 1. Private aid.
18230	- Municipal Entrance Buoy 9	44-58-32.300N 085-38-45.500W				Green can.	Maintained from May 1 to Nov. 1. Private aid.
18235	- Buoy 1 Marks north side of shoal.	44-59-50.933N 085-36-03.768W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)						
	West Arm						
18240	- *Lighted Bell Buoy 4* Marks shoal.	44-56-02.225N 085-35-29.497W	Fl R 4s		4	Red.	Maintained from May. 01 to Nov. 14.
18245	- Buoy 6 Marks south side of shoal.	44-53-14.700N 085-36-21.500W				Red nun.	
18250	Tucker Point Shoal Buoy 1 Marks south side of shoal.	44-52-50.884N 085-33-36.681W				Green can.	
18255	Marion Island Shoal Buoy 2 Marks north side of shoal.	44-52-34.800N 085-33-54.000W				Red nun.	
18260	- Buoy 7 Marks wreck.	44-51-14.754N 085-35-48.685W				Green can.	
18265	- *Lighted Buoy 8*	44-47-33.437N 085-37-23.600W	Fl R 4s		5	Red.	Replaced by nun from Nov. 14 to May. 01.
	Traverse City						
18270	- BREAKWATER LIGHT	44-47-18.230N 085-38-00.000W	Fl R 2.5s	40 12	5	TR on tube.	
18275	- WEST BREAKWATER LIGHT 1	44-47-18.980N 085-38-03.060W	Fl G 4s	24 7	4	SG on white pile.	
18280	ZEPHYR COMPANY LIGHT	44-46-58.000N 085-38-10.000W	F G	20 6			Private aid.
18285	TOTAL PETRO LIGHT	44-46-54.000N 085-38-12.000W	F G	15 5		On pile.	Operated only for the arrival and departure of tankers. Private aid.
18290	DUNCAN L CLINCH YACHT HARBOR LIGHT	44-46-03.780N 085-37-19.890W	Q G	22 7		SG on pile.	Maintained from May 1 to Nov 1. Private aid.
18291	DUNCAN L. CLINCH YACHT CLUB LIGHT 2	44-46-06.000N 085-37-18.800W	Fl R 2.5s	22 7		TR on pile.	Maintained from May 1 to Nov 1. Private aid.
18295	BOARDMAN RIVER WEST PIERHEAD LIGHTS (2)	44-45-56.300N 085-36-43.500W	F R	20 6		On black poles.	Private aid.
18300	GREAT LAKES MARITIME ACADEMY WEST PIER LIGHT	44-46-30.000N 085-36-30.000W	Fl G 15s	13 4		On Black Tripod tower.	Private aid.
18305	GREAT LAKES MARITIME ACADEMY EAST PIER LIGHT	44-46-00.000N 085-36-18.000W	Q R	13 4		On pile.	Private aid.
	PLATTE BAY TO LELAND (Chart 14912)						
18310	*NOAA Lighted Weather Buoy 45002*	45-20-39.240N 086-24-41.081W	Fl (4)Y 20s			Yellow disc-shaped hull.	Maintained from Apr. 21 to Nov. 1. Aid maintained by National Oceanic and Atmospheric Administration.
18315	South Fox Island Shoals Buoy 3	45-17-27.217N 085-50-56.578W				Green can.	
18320	South Fox Island Shoals Buoy 4	45-18-34.442N 085-50-40.321W				Red nun.	
18325	South Fox Island Shoals Buoy 2	45-14-50.259N 085-50-13.502W				Red nun.	
18327	NORTH MANITOU ISLAND PIER LIGHT 2	45-07-13.800N 085-58-24.300W	Fl R 4s	20 6		TR on post.	Maintained from May 15 to Oct. 30. Private aid.
18328	NORTH MANITOU ISLAND PIER LIGHT 4	45-07-21.000N 085-58-22.000W	Fl R 4s	20 6		TR on post.	Maintained from May 15 to Oct. 30. Private aid.
18330	LELAND HARBOR LIGHT 1	45-01-26.670N 085-45-51.780W	Fl G 2.5s	25 8	6	SG on post.	
18335	LELAND HARBOR LIGHT 2	45-01-27.760N 085-45-48.480W	Fl R 4s	25 8	4	TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	PLATTE BAY TO LELAND (Chart 14912)						
18340	**North Manitou Shoal Light** Marks south side of shoal.	45-01-15.596N 085-57-25.685W	Fl R 15s	79 24	14		RACON: N (- .) HORN: 2 blasts ev 20s (2s bl-2s si-2s bl-14s si). Standby light of reduced intensity
18350	*Pyramid Point Shoal Lighted Buoy 5* Marks north side of shoal.	45-00-00.280N 085-55-37.429W	Fl G 4s		5	Green.	Replaced by can from Nov. 14 to Apr. 21.
18355	North Manitou Shoal Southwest End Buoy 6	45-00-17.109N 086-00-17.854W				Red nun.	
18357	**South Manitou Island Lighthouse**	45-00-27.654N 086-05-37.620W	F W	54 16		104	Private aid.
18360	*South Manitou Island Shoal Lighted Gong Buoy 8*	44-57-26.375N 086-10-02.852W	Fl R 4s		4	Red.	Replaced by nun from Nov. 14 to Apr. 21.
18365	*Sleeping Bear Lighted Bell Buoy 7*	44-54-04.979N 086-09-57.350W	Fl G 4s		5	Green.	Replaced by can from Nov. 14 to Apr. 21.
18366	**Manning Light**	44-48-48.000N 086-03-58.000W	Fl W 4s	38 12		White circular tower.	Maintained from Apr. 15 to Nov. 15. Private aid.
	STONY LAKE TO POINT BETSIE (Chart 14907)						
18370	**Point Betsie Light**	44-41-28.531N 086-15-18.758W	Fl W 10s	52 16	19	52	
	Frankfort						
18375	**- North Breakwater Light**	44-37-51.127N 086-15-07.708W	F W	72 22	16	White square pyramidal tower. 72	HORN: 1 blast ev 30s (3s bl) operates by keying microphone five times on VHF FM marine CH 83A
18385	- SOUTH BREAKWATER LIGHT	44-37-46.028N 086-15-08.131W	Fl R 4s	46 14	8	White cylindrical tower with red band.	
18390	- NORTH PIERHEAD LIGHT	44-37-47.690N 086-14-49.225W	Fl G 2.5s	31 9	4	SG on post.	
18395	- SOUTH PIERHEAD LIGHT	44-37-45.101N 086-14-44.462W	Fl R 6s	30 9	4	TR on post.	
18405	ARCADIA HARBOR LIGHT 1	44-29-01.113N 086-14-58.125W	Fl G 4s	30 9	4	SG on post.	
18410	ARCADIA HARBOR LIGHT 2	44-28-59.043N 086-15-01.580W	Fl R 2.5s	30 9	4	White cylindrical tower with red band.	
	Portage Lake						
18415	- NORTH PIERHEAD LIGHT	44-21-37.470N 086-16-04.940W	Fl G 4s	32 10	5	White cylindrical tower with green band.	HORN: 1 blast ev 15s (2s bl) operat the fog signal by keying VHF FM marine radio 5 times on channel 83A
18420	- SOUTH PIERHEAD LIGHT	44-21-33.737N 086-16-07.174W	Fl R 4s	27 8	6		
18425	- INNER LIGHT	44-21-30.905N 086-15-36.086W	Fl R 6s	27 8	4	TR on post.	
18427	- *Lighted Buoy 3* Marks shoal.	44-21-37.000N 086-14-37.000W	Fl G 4s		3	Green.	Maintained from Apr. 14 to Oct. 14.
	MANISTEE HARBOR (Chart 14938)						
	Manistee						
18450	**- North Pierhead Light**	44-15-06.502N 086-20-48.695W	Fl G 6s	55 17	12	White cylindrical tower. 55	HORN: 1 blast ev 15s (2s bl). Fog signal operates by keying the microphone five times on VHF-FM CH 83A.
18460	- SOUTH BREAKWATER LIGHT	44-15-05.276N 086-20-59.613W	Fl R 4s	33 10	5	White cylindrical tower, with red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	MANISTEE HARBOR (Chart 14938)						
	Manistee						
18465	- SOUTH PIERHEAD LIGHT	44-15-00.363N 086-20-39.878W	Iso R 6s	29 9	4	TR on pole.	
	Manistee Lake						
18480	- *Lighted Buoy 2*	44-15-11.350N 086-18-47.000W	Fl R 2.5s		3	Red.	Maintained from May 14 to Oct. 14.
18483	- Buoy 3	44-15-11.198N 086-18-38.319W				Green can.	
18490	- *Obstruction Lighted Buoy A* Marks submerged ruins.	44-14-54.500N 086-18-37.000W	Fl R 2.5s				Maintained from May 1 to Oct. 31. Private aid.
18495	- Buoy 5	44-15-04.588N 086-18-28.417W				Green can.	
18497	- Buoy 7	44-14-55.040N 086-18-20.210W				Green can.	
18500	- Buoy 9	44-14-37.333N 086-18-14.629W				Green can.	
18505	- Buoy 10	44-14-30.911N 086-18-16.409W				Red nun.	
18510	- Buoy 12	44-14-23.756N 086-18-14.591W				Red nun.	
18515	- Buoy 13	44-14-14.961N 086-18-09.389W				Green can.	
18520	- Buoy 14	44-13-56.871N 086-17-59.758W				Red nun.	
	STONY LAKE TO POINT BETSIE (Chart 14907)						
18525	BIG SABLE LIGHT	44-03-27.839N 086-30-51.572W	F W	106 32	9	White conical tower with top and middle third black with dwelling attached.	Obscured from 238° to 346°.
	LUDINGTON HARBOR (Chart 14937)						
	Ludington						
18530	- NORTH BREAKWATER LIGHT	43-57-13.002N 086-28-09.737W	Iso G 6s	55 17	8		HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying microphone five times on VHF-FM CH 83A
18540	- NORTH PIERHEAD LIGHT	43-57-10.562N 086-27-45.031W	Fl G 4s	26 8	5	SG on white column.	
18550	- INNER BREAKWATER SOUTH LIGHT	43-57-14.400N 086-27-45.000W	Q W	16 5		On steel pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
18555	- SOUTH BREAKWATER LIGHT	43-57-06.756N 086-28-08.844W	Fl R 2.5s	30 9	6	White cylindrical tower with red band.	
18560	- SOUTH PIERHEAD LIGHT 6	43-57-05.650N 086-27-36.100W	Fl R 4s	30 9	5	TR on post.	
	Pere Marquette Lake						
18565	- *Lighted Buoy 1*	43-56-43.698N 086-26-48.868W	Fl G 2.5s		4	Green.	Maintained from May 14 to Oct. 14.
18570	- Buoy 3	43-56-45.618N 086-26-38.548W				Green can.	Maintained from May 14 to Oct. 14.
18575	- Buoy 5	43-56-46.488N 086-26-35.148W				Green can.	Maintained from May 14 to Oct. 14.
18580	- West Buoy 2 Marks submerged piling.	43-56-31.508N 086-26-57.948W				Red nun.	Maintained from May 14 to Oct.14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	STONY LAKE TO POINT BETSIE (Chart 14907)						
	Consumer Power Company						
	Buoys maintained from Apr. 15 to Oct. 15. Buoys are located 230 feet apart, 100 feet off breakwall and lighted buoys mark submerged net.						
18585	- *Lighted Obstruction Buoy A*	43-54-25.000N 086-27-38.000W	Q W			White with orange diamond.	Private aid.
18590	- *Lighted Obstruction Buoy B*	43-54-15.000N 086-27-38.000W	Q W			White with orange diamond.	Private aid.
18595	- *Lighted Obstruction Buoy C*	43-53-58.000N 086-27-54.000W	Q W			White with orange diamond.	Private aid.
18600	- *Lighted Obstruction Buoy D*	43-53-37.000N 086-27-59.000W	Q W			White with orange diamond.	Private aid.
18605	- *Lighted Obstruction Buoy E*	43-53-03.000N 086-27-58.000W	Q W			White with orange diamond.	Private aid.
18610	- *Lighted Ostruction Buoy F*	43-53-11.000N 086-27-32.000W	Q W			White with orange diamond.	Private aid.
18615	- *Lighted Obstruction Buoy G*	43-53-11.000N 086-27-06.000W	Q W			White with orange diamond.	Private aid.
	STONY LAKE TO POINT BETSIE (Chart 14907)						
18617	*Comanche Wreck Mooring Buoy*	43-50-15.180N 086-29-01.380W					Private aid.
	Pentwater						
18620	- NORTH PIERHEAD LIGHT 3	43-46-56.353N 086-26-36.985W	Fl G 2.5s	43 13	9	White cylindrical tower with green band.	HORN: 1 blast ev 15s (2s bl). Operates by keying microphone five times on VHF-FM CH 83A
18630	- SOUTH PIERHEAD LIGHT 4	43-46-53.541N 086-26-38.892W	Fl R 4s	48 15	4	TR on red skeleton tower.	
18633	*Anna C. Minch Wreck Mooring Buoy*	43-45-42.060N 086-27-50.040W					Private aid.
			Green Bay Harbor Entrance Channel				
	SOUTH HAVEN TO STONEY LAKE (Chart 14906)						
	Muskegon						
	UPPER GREEN BAY (Chart 14909)						
18648	*GLERL Muskegon*	43-11-06.320N 086-21-16.700W	Fl Y 4s				Maintained from Apr.1 to Nov.15. Secured with two point mooring system, lighted spar buoys with same flash characteristics marking mooring locations. Private aid.
18648.1	*GLERL M45F*	43-13-50.220N 086-28-00.660W	Q Y				Maintained from Apr.1 to Nov.15. Private aid.
18649	*State of Michigan Wreck Mooring Buoy*	43-23-20.100N 086-27-51.060W					Private aid.
			LAKE MICHIGAN				
	WHITE LAKE (Chart 14935)						
	White Lake						
18650	- NORTH PIERHEAD LIGHT 1	43-22-31.730N 086-25-45.250W	Fl G 6s	25 8	8	White column with green band.	
18655	- SOUTH PIERHEAD LIGHT 2	43-22-29.670N 086-25-46.410W	Fl R 4s	33 10	5	TR on post.	
18660	- PIERHEAD INNER LIGHT 4	43-22-30.070N 086-25-20.460W	Fl R 2.5s	30 9	4	TR on post.	
18665	- *Lighted Buoy 5*	43-22-30.000N 086-25-10.000W	Fl G 2.5s		3	Green.	Maintained from Apr. 21 to Nov. 14.
18670	- *Lighted Buoy 7*	43-22-28.122N 086-25-03.137W	Fl G 4s		3	Green.	Maintained from Apr. 21 to Nov. 14.
18675	- *Lighted Buoy 9*	43-22-32.590N 086-23-42.916W	Fl G 2.5s		3	Green.	Maintained from Apr. 21 to Nov. 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	WHITE LAKE (Chart 14935)						
	White Lake						
18680	- *Lighted Buoy 11*	43-23-04.348N 086-22-41.468W	Fl G 6s		3	Green.	Maintained from Apr. 21 to Nov. 14.
18685	- *Lighted Buoy 12*	43-23-32.979N 086-21-59.862W	Fl R 4s		3	Red.	Maintained from Apr. 21 to Nov. 14.
18690	- LIGHT 14	43-24-05.849N 086-21-18.482W	Fl R 2.5s	12 4	4	TR on pile.	
18695	- LIGHT 15	43-24-13.685N 086-21-16.616W	Fl G 4s	12 4	4	SG on pile.	
	MUSKEGON LAKE (Chart 14934)						
	Muskegon						
18705	- SOUTH BREAKWATER LIGHT	43-13-26.697N 086-20-48.804W	Iso R 6s	70 21	8	Pyramidal tower.	HORN: 2 blasts ev 20s (2s bl-2s si-2s bl-14s si). Fog signal operates by keying the microphone five times on VHF-FM CH 83A
18710	- SOUTH PIERHEAD LIGHT	43-13-35.951N 086-20-28.544W	Fl R 4s	50 15	6	Conical tower.	
18720	- NORTH BREAKWATER LIGHT	43-13-31.839N 086-20-52.946W	Fl G 4s	34 10	4	White cylindrical tower with green band.	
18725	- NORTH PIER OUTER LIGHT	43-13-39.309N 086-20-30.575W	Fl G 6s	30 9	4	SG on post.	
18730	- NORTH PIER INNER LIGHT	43-13-58.336N 086-19-40.243W	Fl G 4s	30 9	4	SG on post.	
18735	- LAKE LIGHT	43-13-54.123N 086-19-38.300W	Fl R 2.5s	28 9	4	White cylindrical tower with red band.	
18740	HARBOUR TOWNE ENTRANCE LIGHT 1	43-13-42.700N 086-19-27.100W	F G	8 2		On tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
18745	HARBOUR TOWNE ENTRANCE LIGHT 2	43-13-42.600N 086-19-28.100W	F R	8 2		On tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
18750	- *Lake Lighted Buoy 3*	43-13-55.050N 086-18-04.217W	Fl G 2.5s		4	Green.	Maintained from Apr. 1 to Nov. 21.
18770	BEAR LAKE ENTRANCE WEST LIGHT	43-14-22.500N 086-17-52.320W	Fl G 4s	8 2		SB on piling.	Maintained from Apr. 1 to Nov. 1. Private aid.
18775	BEAR LAKE ENTRANCE EAST LIGHT	43-14-22.260N 086-17-50.640W	F R	8 2		TR on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
18780	BEAR LAKE CHANNEL LIGHT 1	43-14-42.000N 086-17-44.460W	Q G	6 2		SG on pile	Maintained from Apr 1 to Nov 1. Private aid.
	Great Lakes Marina Entrance *Lights maintained from Apr. 15 to Dec. 12.*						
18785	- LIGHT 1	43-13-20.500N 086-17-38.100W	Q G	10 3		SG on pile.	Private aid.
18790	- LIGHT 2	43-13-20.500N 086-17-40.100W	Q R	11 3		TR on pile.	Private aid.
18795	- LIGHT 3	43-13-15.500N 086-17-38.100W	Fl G 2.5s	10 3		SG on pile.	Private aid.
18800	- LIGHT 4	43-13-15.500N 086-17-40.100W	Fl R 2.5s	11 3		TR on pile.	Private aid.
18805	- LIGHT 5	43-13-09.500N 086-17-38.100W	Fl G 4s	10 3		SG on pile.	Private aid.
18810	- LIGHT 6	43-13-09.500N 086-17-40.100W	Fl R 4s	10 3		TR on pile.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	MUSKEGON LAKE (Chart 14934)						
	Muskegon						
	Great Lakes Marina Entrance *Lights maintained from Apr. 15 to Dec. 12.*						
18815	BANK POINT LIGHT Marks south side of shoal.	43-13-49.500N 086-17-24.100W	Fl G 4s	24 7	5	SG on post on concrete pier.	
	Muskegon						
18818	*GVSU Research Buoy*	43-14-17.660N 086-16-49.914W	Fl Y 4s				Secured with two point mooring system, spar buoys marking mooring locations. Maintained from Apr. 7 to Nov. 7. Private aid.
18819	GVSU Bath 1	43-14-05.760N 086-17-01.200W					Maintained from 1 Apr. to 1 Jan. Private aid.
18819.5	GVSU Bath 2	43-14-01.860N 086-16-40.800W					Maintained from 1 Apr. to 1 Jan. Private aid.
	Lakeshore Yacht Club Channel *Aids maintained from Apr. 15 to Oct. 15.*						
18820	- *Lighted Buoy 1*	43-13-47.900N 086-16-46.200W	Fl G 4s			Green.	Private aid.
18825	- *Lighted Buoy 2*	43-13-47.200N 086-16-48.100W	Fl R 4s			Red.	Private aid.
18830	- Buoy 3	43-13-46.500N 086-16-42.500W				Green can.	Private aid.
18835	- Buoy 4	43-13-45.500N 086-16-44.000W				Red nun.	Private aid.
18840	- Buoy 5	43-13-44.900N 086-16-38.800W				Green can.	Private aid.
18845	- Buoy 6	43-13-44.000N 086-16-40.200W				Red nun.	Private aid.
18850	- Buoy 7	43-13-43.000N 086-16-34.500W				Green can.	Private aid.
18855	- Buoy 8	43-13-42.300N 086-16-36.500W				Red nun.	Private aid.
18870	- LIGHT 10	43-13-41.800N 086-16-34.800W	F R	12 4		TR on post.	Private aid.
18871	- LIGHT 11	43-13-41.100N 086-16-33.000W	F G	12 4		SG on post.	Private aid.
18875	MUSKEGON HARTSHORN LIGHT Marks north side of shoal.	43-14-05.028N 086-16-32.862W	Fl R 4s	15 5	3	TR on column.	
	Hartshorn Municipal Marina *Aids maintained from Apr. 15 to Oct. 15.*						
18881	- *Lighted Buoy 1*	43-14-05.831N 086-16-06.258W	Fl G 4s			Green.	Private aid.
18882	- *Lighted Buoy 2*	43-14-05.520N 086-16-08.772W	Fl R 4s			Red.	Private aid.
18883	- Buoy 3	43-13-58.020N 086-16-01.608W				Green can.	Priate aid. Private aid.
18884	- *Lighted Buoy 4*	43-13-57.800N 086-16-03.720W	Fl R 2s			Red.	Private aid.
18885	- LIGHT 5	43-13-52.600N 086-16-00.500W	Iso G 12s	15 5		On tripod.	Private aid.
18890	- LIGHT 6	43-13-51.700N 086-16-00.500W	Iso R 10s	15 5		On tripod.	Private aid.
18895	- BASIN LIGHT	43-43-47.000N 086-15-57.500W	F R	18 5		On pole.	Private aid.
18900	Verplank Channel Buoy 2	43-14-41.658N 086-15-09.564W					Private aid.
18905	Verplank Channel Buoy 4	43-14-40.716N 086-15-03.828W					Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	MUSKEGON LAKE (Chart 14934)						
	Conservation Club Channel *Aids maintained from May. 1 to Nov. 1.*						
18925	- *Lighted Buoy 1*	43-15-27.600N 086-15-22.860W	Fl G 2s			Green.	Private aid.
18930	- *Lighted Buoy 2*	43-15-27.240N 086-15-22.140W	Fl R 2s			Red.	Private aid.
18935	- *Lighted Buoy 3*	43-15-29.640N 086-15-21.420W	Q G			Green.	Private aid.
18936	- Buoy 3A	43-15-30.180N 086-15-21.300W				Green can.	Private aid.
18940	- Buoy 4	43-15-32.500N 086-15-13.200W				Red nun.	Private aid.
18945	- Dayboard 5	43-15-34.300N 086-15-15.000W				SG on post.	Private aid.
18950	- Buoy 6	43-15-31.320N 086-15-17.220W				Red.	Private aid.
	GRAND HAVEN AND GRAND RIVER (Chart 14933)						
	Grand Haven						
18965	**- South Pierhead Entrance Light**	43-03-24.910N 086-15-21.420W	Fl R 10s	42 13	15	Red fog signal building. 42	Fog Signal operates by keying the microphone five times on VHF-FM CH 83A. HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si).
18975	- SOUTH PIERHEAD INNER LIGHT	43-03-25.935N 086-15-13.631W	Oc R 4s	52 16	6	Red cylindrical tower.	
18980	- NORTH PIERHEAD LIGHT 1	43-03-29.411N 086-15-21.205W	Fl G 4s	36 11	6	White cylindrical tower with green band.	
	Grand River *Unlighted buoys maintained from May 1 to Nov. 1.*						
18995	- *Lighted Buoy 3*	43-03-44.930N 086-14-17.332W	Fl G 2.5s		3	Green.	Replaced by can from Nov. 28 to April 1.
19000	- *Lighted Buoy 3A*	43-03-49.364N 086-14-12.992W	Fl G 4s		3	Green.	Replaced by can from Nov. 28 to April 1.
19005	- *Lighted Buoy 4*	43-04-15.695N 086-14-08.961W	Fl R 4s		3	Red.	Replaced by nun from Nov. 28 to April 1.
19010	- Buoy 6	43-04-26.736N 086-14-05.568W					Maintained from Apr. 1 to Nov. 1.
19015	- Buoy 7	43-04-35.400N 086-14-00.900W				Green can.	Maintained from Apr. 1 to Nov. 1.
19020	- *Lighted Buoy 8*	43-04-34.211N 086-13-57.761W	Fl R 2.5s		3	Red.	Replaced by nun from Nov. 28 to April 1.
19025	- Buoy 10	43-04-37.942N 086-13-49.944W				Red nun.	
19030	- Turning Basin Buoy 12	43-04-34.878N 086-13-23.541W				Red nun.	Maintained from Apr. 1 to Nov. 1.
19035	- *Lighted Buoy 14*	43-04-29.039N 086-12-59.478W	Fl R 2.5s		3	Red.	Maintained from April 1 to Nov. 1.
19040	SPRING LAKE OBSTRUCTION LIGHT	43-04-38.894N 086-12-49.841W	Fl W 2.5s	15 5	5	3 NW on pile worded DANGER.	
19043	SPRING LAKE YACHT CLUB LIGHT A	43-04-55.770N 086-11-40.350W	F W				Maintained from Apr. 1 to Nov. 1. Private aid.
19043.1	SPRING LAKE YACHT CLUB LIGHT B	43-04-55.820N 086-11-36.680W	F W				Maintained from Apr. 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	GRAND HAVEN AND GRAND RIVER (Chart 14933)						
	Grand Haven						
	Grand River						
	Unlighted buoys maintained from May 1 to Nov. 1.						
19043.2	SPRING LAKE YACHT CLUB LIGHT C	43-04-56.470N 086-11-33.700W	F W				Maintained from Apr. 1 to Nov. 1. Private aid.
19043.3	SPRING LAKE YACHT CLUB LIGHT D	43-04-57.230N 086-11-32.430W	F W				Maintained from Apr. 1 to Nov. 1. Private aid.
19045	- *Lighted Buoy 14A*	43-04-27.606N 086-12-45.345W	Fl R 6s		3	Red.	Maintained from April 1 to Nov. 1.
19050	- *Lighted Buoy 15*	43-04-24.708N 086-12-36.567W	Fl G 4s		3	Green.	Maintained from April 1 to Nov. 1.
19051	- *Lighted Buoy 15A*	43-04-18.678N 086-12-32.838W	Fl G 6s		3	Green.	Maintained from April 1 to Nov. 1.
19055	- *Lighted Buoy 16*	43-04-24.198N 086-12-37.773W	Fl R 4s		3	Red.	Maintained from April 1 to Nov. 1.
19060	- *Lighted Buoy 16A*	43-04-13.287N 086-12-31.645W	Fl R 6s		3	Red.	Maintained from April 1 to Nov. 1.
19065	- Buoy 17	43-04-04.650N 086-12-21.500W				Green can.	
19070	- Buoy 19	43-03-56.514N 086-12-13.021W				Green can.	
19075	- Buoy 20	43-03-54.000N 086-12-13.100W				Red nun.	
19080	- Buoy 21	43-03-50.835N 086-11-59.512W				Green can.	
19085	- Buoy 22	43-03-46.509N 086-11-47.034W				Red nun.	
19090	- Buoy 23	43-03-40.200N 086-11-19.700W				Green can.	
19095	- Buoy 24	43-03-26.598N 086-10-32.580W				Red nun.	
19100	- Buoy 26	43-03-19.424N 086-10-09.871W				Red nun.	
19105	- Buoy 28	43-03-08.800N 086-09-50.300W				Red nun.	
19110	- Buoy 29	43-02-40.200N 086-09-38.600W				Green can.	
19115	- Buoy 30	43-02-40.816N 086-09-39.911W				Red nun.	
19120	- Buoy 31	43-02-21.000N 086-09-42.600W				Green can.	
19125	- Buoy 33	43-02-10.500N 086-09-41.100W				Green can.	
19130	- Buoy 35	43-01-55.900N 086-09-35.600W				Green can.	
19135	- Buoy 37	43-01-31.300N 086-09-02.800W				Green can.	
19140	- Buoy 39	43-01-33.400N 086-08-53.900W				Green can.	
19145	- Buoy 40	43-01-51.900N 086-08-38.600W				Red nun.	
19150	- Buoy 42	43-02-10.233N 086-08-33.144W				Red nun.	
19155	- Buoy 44	43-02-19.814N 086-08-23.872W				Red nun.	
19160	- Buoy 46	43-02-25.700N 086-08-13.000W				Red nun.	
19165	- Buoy 48	43-02-29.171N 086-08-01.989W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	GRAND HAVEN AND GRAND RIVER (Chart 14933)						
	Grand Haven						
	Grand River						
	Unlighted buoys maintained from May 1 to Nov. 1.						
19170	- Buoy 50	43-02-30.225N 086-07-48.601W				Red nun.	
19175	- Buoy 51	43-02-24.000N 086-07-11.900W				Green can.	
19180	- Buoy 52	43-02-22.438N 086-06-39.135W				Red nun.	
19185	- Buoy 54	43-02-25.000N 086-06-11.100W				Red nun.	
19190	- Buoy 55	43-02-24.141N 086-05-44.892W				Green can.	
19195	- Buoy 57	43-02-23.800N 086-05-19.700W				Green can.	
19200	- Buoy 59	43-02-26.500N 086-04-56.600W				Green can.	
19205	- Buoy 60	43-02-27.800N 086-04-45.600W				Red nun.	
19210	- Buoy 62	43-02-30.509N 086-04-24.168W				Red nun.	
19215	- Buoy 64	43-02-26.754N 086-04-01.329W				Red nun.	
19220	- Buoy 66	43-02-19.000N 086-03-37.100W				Red nun.	
19225	- Buoy 67	43-02-07.300N 086-03-11.200W				Green can.	
19230	- Buoy 68	43-01-55.900N 086-02-47.600W				Red nun.	
19235	- Buoy 69	43-01-46.700N 086-02-26.800W				Green can.	
19240	- Buoy 71	43-01-42.100N 086-02-10.300W				Green can.	
19245	- Buoy 72	43-01-37.500N 086-01-59.700W				Red nun.	
19250	- Buoy 74	43-01-25.200N 086-01-31.900W				Red nun.	
19255	- Buoy 76	43-01-09.100N 086-01-12.800W				Red nun.	
19260	- Danger Buoy	43-01-03.104N 086-01-09.192W				White can with orange bands worded DANGER END OF DREDGED CHANNEL	
	Grand Haven						
19261	*Ironsides Wreck Mooring Buoy*	43-02-55.799N 086-19-08.999W					Private aid.
	SOUTH HAVEN TO STONEY LAKE (Chart 14906)						
	Port Sheldon						
19270	- BREAKWATER NORTH LIGHT	42-54-00.000N 086-13-06.000W	Fl G 4s	14 4		Column.	Maintained from Apr. 1 to Oct. 31. Private aid.
19275	- BREAKWATER SOUTH LIGHT	42-54-00.000N 086-03-06.000W	Fl R 4s	14 4		Column.	Maintained from Apr. 1 to Oct. 31. Private aid.
	HOLLAND HARBOR (Chart 14932)						
	Holland Harbor						
19280	- NORTH BREAKWATER LIGHT	42-46-24.400N 086-12-56.900W	Fl G 6s	27 8	7	White cylindrical tower with green band.	
19285	- SOUTH BREAKWATER LIGHT	42-46-21.100N 086-12-56.900W	Fl R 4s	27 8	5	White cylindrical tower with red band.	HORN: 1 blast ev 30s (3s blast). Operates by keying microphone five times on VHF-FM Ch. 83A.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	HOLLAND HARBOR (Chart 14932)						
	Holland Harbor						
19290	- NORTH PIERHEAD LIGHT	42-46-23.850N 086-12-45.756W	Fl G 4s	25 8	4	SG on cylindrical tower.	
19295	**- South Pierhead Light**	42-46-21.520N 086-12-44.993W	Al WR 10s	52 16	W 19 R 17	On square tower on building. 52	
	Lake Macatawa						
19305	- LIGHT	42-46-19.600N 086-12-24.300W	Fl R 2.5s	24 7	4	TR on column.	Not visible westward.
19310	- *Lighted Buoy 1*	42-46-18.281N 086-12-03.848W	Fl G 2.5s		4	Green.	Replaced by can from Nov. 7 to Apr. 14.
19320	*Big Bay Lighted Buoy 1*	42-46-51.558N 086-11-02.119W	Fl G 6s		3	Green.	Maintained from Apr. 14 to Nov. 14.
19325	*Big Bay Lighted Buoy 2*	42-46-52.464N 086-10-57.366W	Fl R 6s		3	Red.	Maintained from Apr. 14 to Nov. 14.
19330	Big Bay Buoy 3	42-47-04.020N 086-10-58.643W				Green can.	Maintained from Apr. 14 to Nov. 14.
19335	MIDDLE GROUND LIGHT 3 Marks southeast side of shoal.	42-46-45.322N 086-10-41.034W	Fl G 4s	23 7	4	SG on column on cylindrical base.	
19340	DRAKE POINT LIGHT 4 Marks north side of shoal.	42-46-44.040N 086-10-22.453W	Fl R 4s	23 7	4	TR on column on cylindrical base.	
19345	- Buoy 5	42-46-44.455N 086-09-53.291W				Green can.	
19350	- *Lighted Buoy 6*	42-46-43.058N 086-09-53.562W	Fl R 6s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
19375	POINT SUPERIOR LIGHT 7	42-46-44.520N 086-09-16.110W	Fl G 4s	23 7	4	SG on column on cylindrical base.	
19380	- Buoy 9	42-46-41.149N 086-09-08.305W				Green can.	
19385	- *Lighted Buoy 10*	42-46-39.172N 086-09-02.038W	Fl R 2.5s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
19390	- Buoy 11	42-46-42.950N 086-08-57.372W				Green can.	
19393	- Buoy 12	42-46-53.303N 086-08-30.225W				Red nun.	
19395	- Buoy 13	42-46-58.829N 086-08-21.731W				Green can.	
19400	- *Lighted Buoy 14*	42-47-05.183N 086-08-03.150W	Fl R 4s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
19405	- Buoy 15	42-47-15.038N 086-07-45.057W				Green can.	
19410	- *Lighted Buoy 16*	42-47-21.980N 086-07-25.472W	Fl R 2.5s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
19415	- Buoy 17	42-47-26.988N 086-07-16.740W				Green can.	
19420	- *Lighted Buoy 19*	42-47-34.536N 086-07-10.684W	Fl G 4s		4	Green.	Replaced by can from Nov. 7 to Apr. 14.
19425	- Buoy 21	42-47-38.598N 086-06-59.084W				Green can.	
19430	- Buoy 23	42-47-46.782N 086-06-53.733W				Green can.	Maintained from Apr. 14 to Nov. 07.
19435	- Buoy 25	42-47-53.448N 086-06-49.359W				Green can.	Maintained from Apr. 14 to Nov. 07.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	HOLLAND HARBOR (Chart 14932)						
	Holland Harbor						
	Lake Macatawa						
19440	- Buoy 26	42-47-52.994N 086-06-48.005W				Red nun.	Maintained from Apr. 14 to Nov. 07.
	SOUTH HAVEN TO STONY LAKE (Chart 14906)						
	Saugatuck						
19445	- SOUTH PIERHEAD LIGHT	42-40-36.000N 086-12-59.000W	Fl R 4s	30 9	7	Cylindrical structure with red band.	HORN: 1 blast ev 15s (2s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
19450	- NORTH PIERHEAD LIGHT	42-40-38.880N 086-12-57.410W	Fl G 4s	30 9	5	Cylindrical structure with green band.	
	Kalamazoo River *Buoys maintained from May 14 to Nov. 7.*						
19455	- Buoy 2	42-40-32.700N 086-12-22.800W				Red nun.	
19460	- Buoy 4	42-40-35.100N 086-12-12.300W				Red nun.	
19465	- Buoy 5	42-40-23.300N 086-11-54.800W				Green can.	
19470	- Buoy 6	42-40-19.300N 086-11-53.700W				Red nun.	
19475	- Buoy 8	42-39-54.000N 086-12-03.800W				Red nun.	
19480	- Buoy 9	42-39-50.800N 086-12-04.800W				Green can.	
19485	- Buoy 11	42-39-42.794N 086-12-17.875W				Green can.	
19490	- Buoy 12	42-39-40.200N 086-12-22.200W				Red nun.	
19495	- Buoy 14	42-39-28.400N 086-12-24.000W				Red nun.	
	South Haven						
19505	**- South Pierhead Light**	42-24-04.830N 086-17-16.640W	F R	37 11	13	Red conical tower. 37	Fog Signal operates by keying the microphone five times on VHF-FM CH 83A. HORN: 2 blast ev 30s (2s bl-2s si-2s bl-24s si).
19510	- NORTH PIER LIGHT	42-24-06.800N 086-17-17.500W	Fl G 4s	28 9	6	On pole.	
	Palisades Nuclear Security Zone *Buoys maintained from Apr. 15 to Nov. 1.*						
19511	- No Entry Buoy A	42-19-12.000N 086-19-24.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.1	- No Entry Buoy B	42-19-17.000N 086-19-37.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.2	- No Entry Buoy C	42-19-22.000N 086-19-54.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.3	- No Entry Buoy D	42-19-33.000N 086-19-48.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	SOUTH HAVEN TO STONY LAKE (Chart 14906)						
	South Haven						
	Palisades Nuclear Security Zone *Buoys maintained from Apr. 15 to Nov. 1.*						
19511.4	- No Entry Buoy E	42-19-44.000N 086-19-42.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.5	- No Entry Buoy F	42-19-39.000N 086-19-24.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.6	- No Entry Buoy G	42-19-35.000N 086-19-07.000W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
	ST. JOSEPH AND BENTON HARBOR (Chart 14930)						
	St. Joseph						
19515	**- North Pierhead Light**	42-06-59.069N 086-29-40.320W	Fl W 2.5s	31 9	12	White cylindrical tower. 31	
19520	**- North Pier Inner Light**	42-06-57.790N 086-29-36.480W	Iso W 2s	53 16	7	Octagonal tower. 53	
19525	- SOUTH PIERHEAD LIGHT	42-06-54.960N 086-29-39.396W	Iso R 6s	25 8	7		
19527	- COAST GUARD LIGHT	42-06-47.819N 086-29-03.973W	Fl Y 4s	26 8	4		
19530	- River Buoy 3	42-06-44.880N 086-28-34.400W				Green can.	Maintained from Apr. 28 to Nov. 1.
	Donald S. Cook Nuclear Security Zone *Buoys maintained from Apr. 1 to Nov. 15*						
19534	*Donald C. Cook Nuclear Security Zone No Entry Buoy A*	41-58-31.980N 086-34-18.500W	Iso W 2s			White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19534.1	*Donald C. Cook Nuclear Security Zone No Entry Buoy B*	41-58-35.340N 086-34-35.460W	Iso W 2s			White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19534.2	*Donald C. Cook Nuclear Security Zone No Entry Buoy C*	41-58-40.380N 086-34-33.660W	Iso W 2s			White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19534.3	*Donald C. Cook Nuclear Security Zone No Entry Buoy D*	41-58-46.140N 086-34-31.500W	Iso W 2s			White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19534.4	*Donald C. Cook Nuclear Security Zone No Entry Buoy E*	41-58-42.780N 086-34-14.940W	Iso W 2s			White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
	WAUKEGAN TO SOUTH HAVEN (Chart 14905)						
	New Buffalo						
19535	- HARBOR LIGHT 1	41-48-08.460N 086-45-08.600W	Fl G 2.5s	25 8	6	SG on column.	
19540	- HARBOR LIGHT 2	41-48-06.120N 086-45-05.072W	Fl R 2.5s	25 8	6	TR on column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	WAUKEGAN TO SOUTH HAVEN (Chart 14905)						
	Michigan City						
19544	*Purdue Research Lighted Buoy A*	41-45-19.800N 086-58-33.960W	STROBE			Yellow	Maintained from May 1 to Nov. 1 Private aid.
19545	**- East Pierhead Light**	41-43-44.045N 086-54-41.642W	Oc W 4s	55 17	10	White octagonal tower with red roof attached to fog signal building. 55	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying microphone five times on VHF-FM Ch. 83A.
19555	- BREAKWATER LIGHT	41-43-48.185N 086-54-50.149W	Fl R 4s	36 11	6	TR on pyramidal structure with red band.	
19560	- BREAKWATER SOUTH LIGHT	41-43-36.876N 086-54-58.698W	Fl Y 2.5s	33 10	4	NY on pyramidal structure.	
19565	- WEST PIERHEAD LIGHT	41-43-35.987N 086-54-36.050W	Fl R 6s	41 13	4	TR on tower.	
19570	- OUTER BASIN LIGHT	41-43-32.513N 086-54-31.393W	Fl G 4s	25 8	4	SG on pile.	
	Burns Harbor						
19575	BAILEYTOWN WATER INTAKE CRIB LIGHT	41-38-58.614N 087-07-21.864W	Q W	14 4		Skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
19580	- EAST LIGHT	41-38-58.000N 087-07-52.000W	Fl W 2s	38 12		On pile.	Private aid.
19583	- Shoal Buoy 1	41-39-10.687N 087-08-07.449W				Green can	
19585	- NORTH LIGHT 2	41-38-55.800N 087-08-45.580W	Fl R 2.5s	36 11	7	TR on pile.	
19590	- SOUTH LIGHT 3	41-38-47.300N 087-08-49.100W	Fl G 4s	47 14	8	White cylindrical tower with green band.	
19595	BURNS WATERWAY JETTY NORTH LIGHT 1	41-38-03.669N 087-10-41.725W	Fl G 6s	27 8	7	White cylindrical tower with green band.	
19600	BURNS WATERWAY WEST PIER LIGHT 2	41-38-00.513N 087-10-40.048W	Fl R 2.5s	27 8	6	TR on post.	
	CHICAGO LAKE FRONT (Chart 14927)						
	Gary						
19605	- BULKHEAD LIGHT	41-37-26.598N 087-17-19.836W	Fl R 4s	20 6		On cylindrical tower.	Private aid.
19610	- BREAKWATER LIGHT	41-37-49.146N 087-19-13.098W	Fl (3)R 40s 2s fl 8s ec. 2s fl 8s ec. 2s fl 18s ec.	40 12		On cylindrical tower.	Standby light. HORN: 1 blast ev 30s (2s bl). Private aid.
19615	- EAST PIERHEAD LIGHT	41-37-27.921N 087-19-27.055W	F W	30 9		On post.	Operates during navigation season only. Private aid.
19620	- WEST PIERHEAD LIGHT	41-37-28.298N 087-19-30.888W	F R	25 8		On post.	Operates during navigation season only. Private aid.
19625	*Indiana Shoal Lighted Gong Buoy 4* Marks northeast side of shoals.	41-43-25.709N 087-20-52.534W	Fl R 4s		4	Red.	Maintained from Apr. 21 to Dec. 1.
	Buffington Harbor						
19630	- BREAKWATER LIGHT	41-38-45.000N 087-24-37.500W	Fl R 4s	48 15		Conical tower.	Private aid.
19636	- INNER BREAKWATER EAST LIGHT 2	41-38-35.000N 087-24-53.000W	Fl R 2.5s	24 7		On post.	Private aid.
19637	- INNER BREAKWATER WEST LIGHT 1	41-38-33.000N 087-24-56.000W	Q G	24 7		On post.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	CALUMET AND INDIANA HARBORS (Chart 14929)						
	City of East Chicago, Indiana						
19648	- CASINO HARBOR LIGHT 1	41-39-17.390N 087-25-55.340W	Q G	50 15		SG on cylindrical tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
19649	- CASINO HARBOR LIGHT 2	41-39-15.110N 087-25-59.930W	Oc R 4s	50 15		TR on cylindrical tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
19650	- PASTRICK MARINA LIGHT 3	41-39-14.600N 087-26-05.600W	Fl G 4s	16 5		SG on post.	Maintained from Apr. 1 to Dec. 15. Visible 294° through 359°. Private aid.
19655	- PASTRICK MARINA LIGHT 4	41-39-14.500N 087-26-03.000W	Fl R 4s	16 5		TR on post.	Maintained from Apr. 1 to Dec. 15. Visible 294° through 359°. Private aid.
	Indiana Harbor						
19660	- SOUTH BULKHEAD LIGHT	41-39-34.074N 087-25-14.232W	Fl R 2s	49 15		Pyramidal tower.	Private aid.
19665	- EAST BULKHEAD LIGHT	41-40-41.328N 087-24-04.866W	Fl R 2s	48 15		Pyramindal tower.	Private aid.
19670	- NORTH BULKHEAD LIGHT	41-41-20.340N 087-25-01.044W	Fl R 2s	48 15		Pryamidal tower.	Private aid.
19675	**- East Breakwater Light**	41-40-51.014N 087-26-28.027W	Iso G 6s	78 24	12	Square tower.	HORN: 2 blast ev 20s. Operates by keying microphone five times on VHF-FM Ch. 83A.
19685	- LIGHT 2	41-41-06.090N 087-26-49.380W	Oc R 4s	29 9	6	TR on pile.	
19690	- LIGHT 5	41-40-27.643N 087-26-19.840W	Fl G 2.5s	48 15	5	White cylindrical tower with green band.	
19695	- LIGHT 6	41-40-22.756N 087-26-26.274W	Fl R 2.5s	48 15	6	White cylindrical tower with red band.	Higher intensity beam on bearing 165.5°.
19700	- LIGHT 7	41-40-00.758N 087-26-31.264W	F G	45 14	8	SG on white cylindrical tower.	
19705	- LIGHT 8	41-40-03.781N 087-26-34.574W	Fl R 4s	13 4	5	TR on white cylindrical tower.	
	CALUMET AND INDIANA HARBORS (Chart 14929)						
19710	American Oil Company Intake Buoy A	41-40-48.000N 087-29-18.000W				White with orange bands and orange diamond.	Maintained from Apr. 15 to Nov. 15. Private aid.
19715	WHITING LAKEFRONT PARK LIGHT A	41-41-03.500N 087-29-20.000W	Q G	19 6		On post.	Private aid.
19720	WHITING LAKEFRONT PARK LIGHT B	41-41-05.200N 087-29-20.000W	Q R	19 6		On post.	Private aid.
	Calumet						
19740	HAMMOND INTAKE CRIB LIGHT	41-42-25.100N 087-29-49.500W	Fl W 6s	26 8		On tower.	Maintained from Apr. 1 to Nov. 1. Private aid.
	Hammond Marina *Aids maintained from Apr. 15 to Nov. 15.*						
19745	- ENTRANCE LIGHT 1	41-41-44.700N 087-30-14.800W	Fl G 4s	20 6		SG on pile.	Private aid.
19750	- ENTRANCE LIGHT 2	41-41-44.700N 087-30-11.700W	Fl R 4s	20 6		TR on pile.	Private aid.
19752	- *Lighted Obstruction Buoy AA*	41-41-43.780N 087-30-09.180W	Q W				Private aid.
19755	- *Lighted Obstruction Buoy A*	41-41-47.400N 087-30-09.300W	Fl W 2.5s			White with orange bands and orange diamond.	Private aid.
19760	- *Lighted Obstruction Buoy B*	41-41-51.800N 087-30-13.700W	Fl W 2.5s			White with orange bands and orange diamond.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	CALUMET AND INDIANA HARBORS (Chart 14929)						
	Calumet						
	Hammond Marina						
	Aids maintained from Apr. 15 to Nov. 15.						
19765	- *Lighted Obstruction Buoy C*	41-41-55.400N 087-30-20.300W	Fl W 2.5s			White with orange bands and orange diamond.	Private aid.
19770	- *Lighted Obstruction Buoy D*	41-41-57.500N 087-30-26.600W	Fl W 2.5s			White with orange bands and orange diamond.	Private aid.
	Calumet						
19775	Nipsco Obstruction Buoy A	41-42-00.000N 087-30-26.000W				White with orange bands worded SUBMERGED PILINGS.	Maintained from Apr. 1 to Nov. 1. Private aid.
19780	- PARK 101ST STREET PIER LIGHT	41-42-47.923N 087-31-30.809W	Fl R 4s	28 9	6	TR on post.	
	CHICAGO LAKE FRONT (Chart 14927)						
19785	Indiana Shoal Buoy 2	41-46-10.332N 087-23-26.733W				Red nun.	
19790	*Chicago Lake Front Northeast Shoal Lighted Buoy 2* Marks east side of shoal.	41-45-36.268N 087-28-02.018W	Fl R 4s		4	Red.	RACON: C (- . - .) Replaced by nun from Dec. 1 to Apr. 21. AIS MMSI: 993672228
	CALUMET AND INDIANA HARBORS (Chart 14929)						
19795	*Calumet East Shoal Lighted Buoy 4*	41-43-59.008N 087-28-13.836W	Fl R 6s		4	Red.	Replaced by nun from Dec. 01 to Apr 21.
19800	**Calumet Harbor Breakwater South End Light**	41-43-33.652N 087-29-35.956W	Al WR 10s 0.2s W fl 4.8s ec. 0.2s R fl 4.8s ec.	50 15	W 17 R 14	White square skeleton tower with red band. Lower half open. 46	HORN: 1 blast ev 15s (2s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
19810	*Calumet Harbor Lighted Buoy 1*	41-43-07.704N 087-29-48.694W	Fl G 4s		3	Green.	Year round lighted buoy
19815	Calumet Harbor Buoy 3	41-43-15.125N 087-29-58.770W				Green can.	
19820	Calumet Harbor Buoy 5	41-43-38.376N 087-30-30.348W				Green can.	
19825	*Calumet Harbor Lighted Buoy 7*	41-43-48.248N 087-30-43.758W	Fl G 4s		3	Green.	Year round lighted buoy.
19827	CALUMET HARBOR BREAKWATER OBSTRUCTION LIGHT	41-44-29.394N 087-30-52.040W	Fl Y 2.5s	28 9	8	White cylindrical tower with yellow band.	
19830	CALUMET HARBOR LIGHT	41-44-12.635N 087-30-28.804W	Fl R 2.5s	51 16	7	White cylindrical tower with red band.	
19835	CALUMET HARBOR ENTRANCE SOUTH SIDE LIGHT	41-44-08.146N 087-30-22.721W	Fl G 4s	30 9	6	White cylindrical tower with green band.	
19840	CALUMET PIERHEAD LIGHT	41-44-01.492N 087-31-44.479W	Iso R 6s	31 9	6	TR on post.	Obscured from 240° to 060°.
19845	CALUMET HARBOR DISPOSAL AREA LIGHT	41-43-52.296N 087-31-29.633W	Fl G 6s	26 8	4	SG on tower.	
19850	CALUMET RIVER ENTRANCE LIGHT	41-43-56.306N 087-31-46.175W	Fl G 2.5s	28 9	5	SG on post.	
	CHICAGO LAKE FRONT (Chart 14927)						
19855	Clarke Point Buoy 8	41-45-33.926N 087-31-44.064W				Red nun.	Maintained from Apr. 14 to Nov. 01.
19860	FILTRATION PLANT BREAKWATER SOUTH END LIGHT	41-45-24.822N 087-32-16.794W	Fl W 2.5s	39 12		NW on skeleton tower marked DANGER.	Maintained from May 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	CHICAGO LAKE FRONT (Chart 14927)						
19865	FILTRATION PLANT BREAKWATER NORTH END LIGHT	41-45-42.438N 087-32-38.820W	Fl W 2.5s	39 12		NW on skeleton tower marked DANGER.	Maintained from May 1 to Nov. 1. Private aid.
19870	SIXTY-EIGHTH STREET CRIB LIGHT	41-47-10.500N 087-31-48.000W	Fl R 3s	61 19		Silver-gray lantern on red skeleton tower on stone crib.	BELL: 1 strike ev 12s. Private aid.
19875	JACKSON PARK OUTER HARBOR LIGHT 2	41-47-04.500N 087-34-03.500W	Fl R 2.5s	28 9		TR on pile at end of breakwater.	Maintained from Apr. 15 to Dec. 1. Private aid.
19880	JACKSON PARK OUTER HARBOR LIGHT 4	41-46-52.900N 087-34-06.774W	Fl R 4s	28 9		TR on pile.	Maintained from Apr. 15 to Dec. 1. Private aid.
19885	JACKSON PARK INNER HARBOR LIGHT 6	41-46-47.300N 087-34-22.800W	F R	35 11		TR on pile.	Maintained from Apr. 15 to Dec. 1. Private aid.
19890	JACKSON PARK INNER HARBOR LIGHT 5	41-46-45.600N 087-34-21.800W	F G			SG on pile.	Maintained from Apr. 15 to Dec. 1. Private aid.
19895	FIFTY-NINTH STREET YACHT HARBOR SOUTH PIER LIGHT	41-47-17.300N 087-34-30.700W	F G	35 11		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
19900	FIFTY-NINTH STREET YACHT HARBOR NORTH PIER LIGHT	41-47-12.000N 087-34-18.000W	F R	35 11		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
19905	South Park Shoal Buoy 6 Marks east side of shoal.	41-47-53.884N 087-32-22.199W				Red nun.	
19910	*Clemson Shoal Lighted Bell Buoy 4*	41-48-24.565N 087-32-04.726W	Fl R 4s		4	Red.	Replaced by nun from Dec. 01 to Apr. 21.
19915	Hyde Park Shoal Outside Buoy 2	41-48-31.014N 087-32-38.801W				Red nun.	
19920	*Morgan Shoals Lighted Buoy 2*	41-48-38.600N 087-34-27.900W	Fl R 2.5s		3	Red.	Maintained from Apr. 14 to Nov 1.
19921	OAKWOOD BEACH NORTH PIER LIGHT	41-49-24.922N 087-35-48.453W	Fl Y 2s	20 6			Private aid.
19922	OAKWOOD BEACH SOUTH PIER LIGHT	41-49-17.193N 087-35-39.191W	Fl Y 2s				Private aid.
19925	FOUR-MILE CRIB LIGHT	41-52-24.000N 087-32-42.000W	Fl W 15s	66 20		Red skeleton tower on stone crib.	HORN: 1 blast ev 20s (2s bl). Private aid.
	CHICAGO HARBOR (Chart 14928)						
19930	THIRTY-FIRST STREET OUTER JETTY LIGHT	41-50-21.700N 087-36-15.800W	Fl Y 2.5s	29 9		NW on cylindrical tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
19931	*Thirty-First Street Jetty Danger Lighted Buoy A*	41-50-22.600N 087-36-18.200W	Fl W 2s			White with orange bands and diamond worded DANGER BREAKWATER.	Maintained from Apr. 15 to Oct. 31. Private aid.
19932	*Thirty-First Street Jetty Danger Lighted Buoy B*	41-50-23.000N 087-36-20.800W	Fl W 2s			White with orange bands and diamond worded DANGER BREAKWATER.	Maintained from Apr. 15 to Oct. 31. Private aid.
19933	*Thirty-First Street Jetty Danger Lighted Buoy C*	41-50-23.500N 087-36-23.300W	Fl W 2s			White with orange bands and diamond worded DANGER BREAKWATER.	Maintained from Apr. 15 to Oct. 31. Private aid.
19934	THIRTY-FIRST STREET INNER JETTY LIGHT	41-50-24.400N 087-36-26.000W	Fl Y 2.5s	26 8		NW on cylindrical tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
	Northerly Island Danger Zone						
19955	BURNHAM PARK HARBOR LIGHT	41-51-42.000N 087-36-36.000W	Fl G 3s	60 18		On skeleton tower.	Red from 135° to 255°. Maintained from Apr. 15 to Dec. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	CHICAGO HARBOR (Chart 14928)						
	Northerly Island Danger Zone						
19956	*Northerly Island Danger Lighted Buoy A*	41-51-52.200N 087-36-21.200W	Fl W 2s			White and orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct 31. Private aid.
19956.1	*Northerly Island Danger Lighted Buoy B*	41-51-48.500N 087-36-21.000W	Fl W 2s			White and orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct 31. Private aid.
19956.2	*Northerly Island Danger Lighted Buoy C*	51-51-45.000N 087-36-21.000W	Fl W 2s			White with orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct 31. Private aid.
	CHICAGO LAKE FRONT (Chart 14927)						
	Chicago Harbor						
19960	**- Light**	41-53-21.658N 087-35-25.712W	Fl R 5s	82 25	15	White conical tower. 82	HORN operates by keying the microphone five times on VHF-FM channel 83A. 2 blasts ev 30s (2s bl).
19980	- OUTER BREAKWATER SOUTH END LIGHT	41-52-48.623N 087-35-25.905W	Iso R 6s	27 8	6	White cylindrical tower with red band.	
19985	- ENTRANCE SOUTH SIDE LIGHT	41-53-14.864N 087-35-25.861W	Fl G 4s	27 8	6	White cylindrical tower with green band.	
19990	- SOUTH BREAKWATER NORTHEND LIGHT 1	41-52-29.330N 087-36-36.430W	Fl G 2.5s	35 11	5	SG on post.	
19995	- BREAKWATER SOUTH LIGHT	41-52-36.957N 087-36-36.300W	Fl R 4s	23 7	4	White cylindrical tower with red band.	
20000	- SOUTHEAST GUIDE WALL LIGHT	41-53-17.940N 087-36-09.044W	Iso W 6s	48 15	9	White square tower with green band.	Visible from 157° to 023°.
20005	- MUNICIPAL PIER NO. 1 LIGHT	41-53-23.300N 087-35-58.800W	Fl Y 2.5s			NY on skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20010	- NAVY PIER SOUTH LIGHT	41-53-29.400N 087-35-54.500W	Iso W 4s	30 9		On skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20012	- NAVY PIER NORTH LIGHT	41-53-32.300N 087-35-54.500W	Iso W 4s	30 9		On skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20015	- FILTRATION PLANT LIGHT B	41-53-35.800N 087-36-08.000W	Fl W 4s	15 5		On dolphin.	Maintained from Mar. 15 to Dec. 15. Private aid.
20020	- FILTRATION PLANT LIGHT A	41-53-46.600N 087-36-08.800W	Fl W 4s	10 3			Maintained from Mar. 15 to Dec. 15. Private aid.
20025	OAK STREET BREAKWATER LIGHT	41-54-11.021N 087-36-28.239W	Fl G 4s	30 9	5	SG on post.	
20030	- OAK STREET BREAKWATER NORTHEAST END LIGHT 2	41-54-10.904N 087-36-33.989W	Fl R 2.5s	26 8	6	TR on post.	
20035	- OAK STREET BREAKWATER SOUTHWEST END LIGHT 3	41-54-05.076N 087-37-02.205W	Fl G 2.5s	26 8	6	SG on post.	
20040	WILLIAM E. DEVER CRIB LIGHT	41-55-00.000N 087-34-18.000W	Q W	72 22		On skeleton tower.	HORN: 1 blast ev 20s (2s bl). Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	CHICAGO HARBOR (Chart 14928)						
	Chicago North Side (Chart 14928)						
20055	NORTH AVENUE JETTY LIGHT	41-54-54.000N 087-37-12.000W	Q R	38 12		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20080	DIVERSEY HARBOR ENTRANCE NORTH BREAKWATER LIGHT	41-55-57.300N 087-37-50.500W	Fl R 3s	38 12		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
20085	DIVERSEY HARBOR ENTRANCE SOUTH BREAKWATER LIGHT	41-55-57.200N 087-37-52.100W	Fl G 3s	38 12		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
20090	BELMONT HARBOR LIGHT	41-56-30.000N 087-38-00.000W	Fl R 3s	30 9		On tubular steel tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20095	BELMONT HARBOR INNER LIGHT	41-56-35.000N 087-38-09.000W	Fl R 3s	80 24		On skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20100	Belmont Rock Shoal Buoy	41-56-38.057N 087-37-39.805W				Red nun.	Maintained from Apr. 14 to Nov. 01.
	CHICAGO LAKE FRONT (Chart 14927)						
20105	MONTROSE BREAKWATER LIGHT	41-57-48.000N 087-37-53.000W	Fl R 3s	40 12		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20110	MONTROSE HARBOR EAST BREAKWATER LIGHT	41-57-33.000N 087-38-25.000W	Fl R 3s	40 12		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20115	MONTROSE HARBOR WEST BREAKWATER LIGHT	41-57-33.400N 087-38-28.000W	Fl G 3s	41 13		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20130	WILSON AVENUE BREAKWATER LIGHT	41-58-07.000N 087-37-53.000W	Fl G 3s	36 11		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20135	WILSON AVENUE INTAKE CRIB LIGHT	41-58-00.000N 087-35-30.000W	Q W	68 21		On cylindrical tower.	HORN: 1 blast ev 20s (2s bl). Private aid.
20140	FOSTER AVENUE PIERHEAD LIGHT	41-58-49.000N 087-38-46.000W	Fl W 3s	41 13		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20145	HOLLYWOOD AVENUE BREAKWATER LIGHT	41-59-10.000N 087-38-59.000W	Fl R 3s	41 13		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20165	FARWELL AVENUE BREAKWATER LIGHT	42-00-24.000N 087-39-24.000W	Fl R 3s	41 13		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20170	South Boulevard Branch Warning Daybeacons	42-01-38.500N 087-39-58.000W				NW on pile worded DANGER GROIN.	Maintained from Apr. 1 to Nov. 1. Private aid.
	Evanston *Buoys maintained from May 1 to Oct. 31.*						
20185	- BREAKWATER LIGHT	42-02-44.500N 087-40-16.200W	Fl R 4s	22 7		On post.	Maintained from May 1 to Oct. 15. Private aid.
20190	GROSSEPOINT LIGHT	42-04-00.000N 087-41-00.000W	Fl (2)W 15s	119 36		White, conical tower, red roofs.	Private aid.
20195	- Boat Ramp Buoy 1	42-02-41.500N 087-40-16.000W				Green can.	Private aid.
20200	- Boat Ramp Buoy 3	42-02-42.200N 087-40-16.500W				Green can.	Private aid.
20205	- Boat Ramp Buoy 5	42-02-42.800N 087-40-17.000W				Green can.	Private aid.
20210	- Boat Ramp Buoy 2	42-02-42.500N 087-40-15.000W				Red nun.	Private aid.
20215	- Boat Ramp Buoy 4	42-02-42.900N 087-40-15.400W				Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	CHICAGO LAKE FRONT (Chart 14927)						
	Evanston						
	Buoys maintained from May 1 to Oct. 31.						
20220	- Boat Ramp Buoy 6	42-02-43.300N 087-40-15.800W				Red nun.	Private aid.
20221	- Boat Ramp Buoy 7	42-02-43.300N 087-40-17.500W				Green can.	Private aid.
20222	- Boat Ramp Buoy 8	42-07-43.600N 087-40-16.200W				Red nun.	Private aid.
	WAUKEGAN TO SOUTH HAVEN (Chart 14905)						
	Wilmette Harbor						
20225	- Entrance Buoy 1	42-04-36.200N 087-40-40.600W				Green can.	Maintained from May 1 to Nov. 15. Private aid.
20230	- Entrance Buoy 2	42-04-38.000N 087-40-39.800W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
20235	- ENTRANCE SOUTH LIGHT	42-04-37.000N 087-40-48.300W	Fl G 4s	15 5		On pile.	Maintained from Apr. 15 to Nov. 15. Private aid.
20240	- ENTRANCE NORTH LIGHT	42-04-37.200N 087-40-44.400W	Fl R 4s	20 6		On pile.	Maintained from Apr. 15 to Nov. 15. Private aid.
20245	- PIERHEAD LIGHT	42-04-43.350N 087-40-47.364W	Fl W 4s	40 12		On pile.	Maintained from Apr. 15 to Nov. 15. Private aid.
	WAUKEGAN TO SOUTH HAVEN (Chart 14905)						
20250	*Wilmette Wreck Lighted Bell Buoy WR 2*	42-05-41.114N 087-38-57.870W	Q R		4	Red.	Replaced by nun from Dec. 01 to Apr. 21.
20255	*Grossepoint Outer Lighted Bell Buoy 4*	42-08-14.361N 087-35-17.476W	Fl R 6s		4	Red.	Replaced by nun from Dec. 01 to Apr. 21.
20257	*Wilmette Weather Buoy*	42-08-16.000N 087-39-30.000W	Fl Y 4s				Maintained from Apr. 1 to Nov. 1. Private aid.
20260	HIGHLAND PARK BREAKWATER LIGHT	42-11-27.000N 087-47-12.000W	Q R	21 6		On yellow post.	Maintained from May 1 to Oct. 31. Private aid.
20275	LAKE FOREST BREAKWATER LIGHT	42-15-01.531N 087-49-03.713W	Fl R 4s	25 8		TR on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
20280	LAKE FOREST JETTY LIGHT	42-15-02.219N 087-49-05.599W	Fl G 4s	21 6		SG on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
	Great Lakes						
20282	- Buoy N	42-19-22.620N 087-49-14.262W				Yellow Can	Maintained from Apr. 14 to Oct. 14.
20284	- Buoy S	42-18-18.675N 087-49-05.910W				Yellow Can	Maintained from Apr. 14 to Oct. 14.
20285	- LIGHT 2	42-18-21.270N 087-49-29.105W	Fl R 4s	34 10	6	White cylindrical tower with red band.	
20290	- LIGHT 1	42-18-18.376N 087-49-35.121W	Fl G 4s	34 10	5	White cylindrical tower with green band.	
20295	- LIGHT 4	42-18-29.854N 087-49-50.012W	Fl R 2.5s	15 5	4	TR on tower.	
20300	- LIGHT 3	42-18-27.991N 087-49-51.774W	Fl G 2.5s	15 5	5	SG on tower.	
20301	- Buoy A	42-18-17.988N 087-48-41.628W				Yellow can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	WAUKEGAN TO SOUTH HAVEN (Chart 14905)						
	Great Lakes						
20302	- Buoy B	42-18-59.298N 087-48-41.892W				Yellow can.	
20303	- Buoy C	42-19-42.474N 087-48-41.628W				Yellow can.	
	PORT WASHINGTON TO WAUKEGAN (Chart 14904)						
	Waukegan						
20305	WAUKEGON SOUTH HARBOR MARINA LIGHT 2	42-21-20.574N 087-49-13.542W	Q R	26 8		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
20310	- SOUTH HARBOR MARINA LIGHT 1	42-21-24.000N 087-49-14.700W	Q G	26 8		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
20315	**- Harbor Light**	42-21-38.320N 087-48-48.240W	Oc G 4s	36 11	12	On cylindrical tower with green band. 36	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by key the microphone 5 times on VHF channel 83A.
20325	- Shoals Buoy 1	42-21-27.105N 087-47-39.606W				Green can.	
20330	- *Shoals Lighted Buoy 3* Marks northeast side of shoal.	42-21-40.899N 087-47-52.820W	Fl G 2.5s		4	Green.	Replaced by can from Dec 1 to Apr 21.
20335	- BREAKWATER LIGHT	42-21-44.431N 087-48-38.828W	Fl (2)R 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	32 10	6	White cylindrical tower with red band.	
20340	- NORTH PIERHEAD LIGHT	42-21-40.870N 087-48-52.955W	Fl R 4s	24 7	4	TR on post.	
	PORT WASHINGTON TO WAUKEGAN (Chart 14904)						
20345	COMMONWEALTH EDISON BREAKWATER LIGHT	42-22-54.600N 087-48-15.600W	Fl R 6s	35 11		On skeleton tower.	Private aid.
20350	JOHNS-MANVILLE INTAKE CRIB LIGHT	42-23-26.340N 087-48-37.074W	Q W	38 12		On skeleton tower.	Private aid.
	Zion Intake *Lights maintained from Apr. 1 to Oct. 31.*						
20355	- *Lighted Buoy A*	42-26-38.460N 087-47-31.500W	Q W			White with orange bands and diamond.	Private aid.
20360	- WEST LIGHT	42-26-38.220N 087-47-28.920W	Fl W 2.5s	5 2		NW on post.	Private aid.
20380	Zion Discharge Buoy B	42-26-44.000N 087-47-42.000W				White can with orange bands and diamond.	Maintained from Apr. 1 to Oct. 31. Private aid.
20385	Zion Discharge Buoy C	42-26-41.000N 087-47-42.000W				White can with orange bands and diamond.	Maintained from Apr. 1 to Oct. 31. Private aid.
	Northpoint Marina *Aids to navigation maintained from Apr. 1 to Nov. 1.*						
20386	- *Reef Obstruction Lighted Buoy A*	42-28-49.275N 087-47-53.076W	Q W			White with orange bands and diamond worded REEF.	Private aid.
20387	- *Reef Obstruction Lighted Buoy B*	42-28-53.324N 087-47-52.723W	Q W			White with orange bands and diamond worded REEF.	Private aid.
20388	- *Reef Obstruction Lighted Buoy C*	42-28-56.798N 087-47-52.515W	Q W			White with orange bands and diamond worded REEF.	Private aid.
20389	- *Reef Obstruction Lighted Buoy D*	42-29-00.831N 087-47-52.310W	Q W			White with orange bands and diamond worded REEF.	Private aid.
20390	- ENTRANCE LIGHT 1	42-29-16.000N 087-47-59.000W	Fl G 4s	20 6		SG on post.	Maintained from Apr. 01 to Nov. 30. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	PORT WASHINGTON TO WAUKEGAN (Chart 14904)						
	Northpoint Marina						
	Aids to navigation maintained from Apr. 1 to Nov. 1.						
20395	- ENTRANCE LIGHT 2	42-29-17.298N 087-47-55.122W	Fl R 4s	20 6		TR on post.	Maintained from Apr. 01 thru Nov. 30. Private aid.
20400	- NORTH OBSTRUCTION LIGHT	42-29-22.000N 087-47-58.000W	Q W	20 6		NW on post.	Maintained from Apr. 01 to Nov. 30. Private aid.
20405	- CENTER OBSTRUCTION LIGHT	42-29-11.000N 087-47-57.000W	Q W	20 6		NW on post.	Maintained from Apr. 01 to Nov. 30. Private aid.
20410	- SOUTH OBSTRUCTION LIGHT	42-29-05.000N 087-47-56.000W	Q W	20 6		NW on post.	Maintained from Apr. 01 to Nov. 30. Private aid.
	Prairie Harbor						
20412	- ENTRANCE NORTH PIER LIGHT 2	42-29-34.800N 087-48-04.200W	Fl R 2.5s	21 6			Private aid.
20413	- ENTRANCE SOUTH PIER LIGHT 1	42-29-33.840N 087-48-06.800W	Fl G 2.5s	21 6			Private aid.
	Kenosha						
20415	**- Light**	42-35-19.700N 087-48-30.830W	Iso R 6s	50 15	8	50	HORN: 1 blast ev 30s (3s bl). Operate the fog signal by keying the microphone on VHF-FM marine radio five times on channel 83A.
20430	- BREAKWATER LIGHT	42-35-20.510N 087-48-21.070W	Fl R 4s	20 6	8	White cylindrical tower with red band.	Higher intensity beam lakeward.
20435	- SOUTH PIER LIGHT	42-35-17.199N 087-48-26.880W	Fl G 4s	34 10	5	Green band on cylindrical tower.	Higher intensity beam lakeward.
20445	SOUTHPORT MARINA ENTRANCE LIGHT 2	42-34-56.300N 087-48-35.400W	Fl R 4s	36 11		TR on pile.	Private aid.
20450	SOUTHPORT MARINA ENTRANCE LIGHT 1	42-34-58.800N 087-48-34.800W	Fl G 4s	31 9		SG on pile.	Private aid.
20455	SOUTHPORT MARINA INNER BREAKWATER LIGHT	42-34-54.400N 087-48-39.200W	Q W	34 10		NW on post worded DANGER ROCKS.	Private aid.
	RACINE HARBOR (Chart 14925)						
	Racine						
20470	- LAUNCH BASIN ENTRANCE LIGHT	42-43-42.900N 087-46-38.200W	Fl R 2.5s	27 8		TR on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
20475	- LAUNCH BASIN INNER LIGHT	42-43-43.800N 087-46-38.900W	Fl G 2.5s	23 7		SG on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
20480	**- Reef Light** Marks east side of reef.	42-43-39.184N 087-44-10.019W	Fl W 6s	50 15	11	On skeleton tower. 50	HORN: 1 blast ev 15s (2s bl). Operates continuously from 01 Apr. to 01 Nov.
20483	- *Reef Lighted Buoy 18* Marks east side of reef.	42-43-39.965N 087-44-01.132W	Fl R 2.5s		5	Red.	Replaced by nun from Dec. 1 to Apr. 21. AIS MMSI: 993682608
20485	- *Reef West End Lighted Buoy 1*	42-43-33.059N 087-46-01.360W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
20490	**- East Harbor Entrance Light 2**	42-44-01.000N 087-46-14.000W	Q R	50 15		On post with 10 ft. lightpipe.	Maintained from Apr. 1 to Nov. 1. Private aid.
20495	- WEST HARBOR ENTRANCE LIGHT 3	42-44-00.000N 087-46-18.700W	Q G	52 16		SG on skeleton tower.	Maintained from Apr. 15 to Oct. 31. HORN: 2 blasts ev 18s (2s bl-2s si-2s bl-12s si). Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	RACINE HARBOR (Chart 14925)						
	Racine						
20500	- HARBOR LIGHT 5	42-44-01.800N 087-46-29.000W	Q G	33 10		SG on pile.	Maintained from Mar. 1 to Dec. 15. Private aid.
20505	- *Harbor Channel Lighted Buoy 4*	42-44-05.300N 087-46-25.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20510	- *Harbor Channel Lighted Buoy 6*	42-44-05.200N 087-46-27.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20515	- HARBOR LIGHT 9	42-44-01.800N 087-46-32.100W	Q G	18 5		SG on post.	Maintained from Apr. 15 to Oct. 31. Private aid.
20520	- *Harbor Channel Lighted Buoy 8*	42-44-04.800N 087-46-32.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20525	- *Harbor Channel Lighted Buoy 10*	42-44-04.000N 087-46-35.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20530	- *Harbor Channel Lighted Buoy 12*	42-44-03.000N 087-46-37.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20535	- *Harbor Preferred Channel Lighted Buoy*	42-44-02.800N 087-46-39.000W	Fl (2+1)R 6s			Red and green bands.	Maintained from Apr. 15 to Oct. 31. Private aid.
20540	- HARBOR LIGHT 14	42-44-02.400N 087-46-40.100W	Fl R 2.5s	33 10		TR on pile.	Maintained from Mar. 1 to Dec. 15. Private aid.
20545	- HARBOR LIGHT 13	42-43-59.900N 087-46-38.900W	Q G	18 5		SG on post.	Maintained from Apr. 15 to Oct 31. Private aid.
20550	- HARBOR JUNCTION LIGHT	42-43-59.500N 087-46-44.000W	Fl (2+1)G 6s	30 9		JG on pile.	Maintained from Mar. 1 to Dec. 15. Private aid.
20555	- *Yacht Club Channel Lighted Buoy 2*	42-44-05.000N 087-46-38.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20560	- *Yacht Club Channel Lighted Buoy 3*	42-44-05.000N 087-46-39.500W	Q G			Green.	Maintained from Apr. 15 to Oct. 31. Private aid.
20565	- *Yacht Club Channel Lighted Buoy 4*	42-44-07.000N 087-46-36.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20570	- *Yacht Club Channel Lighted Buoy 5*	42-44-07.000N 087-46-40.000W	Q G			Green.	Maintained from Apr. 15 to Oct. 31. Private aid.
20575	- *Yacht Club Channel Lighted Buoy 6*	42-44-09.000N 087-46-34.500W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20580	- *Yacht Club Channel Lighted Buoy 8*	42-44-11.000N 087-46-34.000W	Q R			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20585	- YACHT CLUB SOUTH BREAKWATER LIGHT	42-44-06.000N 087-46-36.000W	F R	15 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
20590	- YACHT CLUB NORTH BREAKWATER LIGHT	42-44-12.000N 087-46-30.000W	F G	15 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	LAKE MICHIGAN (Chart 14901)						
20595	*NOAA Lighted Weather Buoy 45007*	42-40-24.984N 087-01-34.324W	Fl (4)Y 20s			Yellow disc-shaped hull.	Maintained from Apr 21 to Nov 21. Aid maintained by National Oceanic and Atmospheric Administration.
	PORT WASHINGTON TO WAUKEGAN (Chart 14904)						
20600	Wind Point South Shoal Buoy 16 Marks east side of shoal.	42-46-13.095N 087-44-03.997W				Red nun.	
20605	**Wind Point Light**	42-46-52.122N 087-45-29.995W	Fl W 20s	111 34	21	White conical tower connected to dwelling. 111	The light may display a false or double flash at certain bearings
20610	*Wind Point North Shoal Lighted Buoy 14* Marks southeast side of shoals.	42-47-33.371N 087-43-32.124W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.
20613	OAK CREEK BREAKWATER LIGHT 3	42-50-46.198N 087-49-30.072W	Fl G 4s	30 9		SG on pile on breakwater.	Maintained from Feb. 1 to Dec. 1. Private aid.
20614	OAK CREEK BREAKWATER LIGHT 2	42-50-47.575N 087-49-25.608W	Fl R 4s	30 9		TR on pile on breakwater.	Maintained from Feb. 1 to Dec. 1. Private aid.
20615	Oak Creek Park Daybeacon 1	42-51-55.400N 087-50-13.550W				SG on pile on breakwater.	Private aid.
20616	OAK CREEK PARK LIGHT 2	42-51-58.780N 087-50-14.460W	Fl R 4s	27 8		TR on pile on breakwater.	Private aid.
20617	WISCONSIN ELECTRIC EAST END JETTY LIGHT A	42-51-11.400N 087-49-51.500W	Q Y			Steel sheet pile.	Maintained from May 1 to Nov. 1. Private aid.
20618	WISCONSIN ELECTRIC EAST END JETTY LIGHT B	42-51-11.100N 087-49-51.000W	Q Y			Steel sheet pile.	Maintained from May 1 to Nov. 1. Private aid.
20626.5	SOUTH MILWAUKEE Y.C. HARBOR ENTRANCE LIGHT 1	42-54-17.000N 087-50-34.000W	Q G	12 4		SG on pole on top of tanks.	Maintained from May 1 to Nov. 1. Private aid.
20627	SOUTH MILWAUKEE Y.C. HARBOR ENTRANCE LIGHT 2	42-54-16.000N 087-50-32.000W	Q R	12 4		TR on pole on sunken barge.	Maintained from May 1 to Nov. 1. Private aid.
20629	*Lighted Dredge 906*	42-58-06.000N 087-47-10.000W	Q W				Maintained from May 1 to Oct. 1. Private aid.
20630	*Milwaukee South Point Lighted Bell Buoy 1* Marks east side of shoal.	42-59-20.585N 087-49-50.497W	Fl G 4s		5	Green.	Replaced by can from Dec. 1 to Apr. 21.
	MILWAUKEE HARBOR (Chart 14924)						
	Milwaukee						
20635	**- Breakwater Light**	43-01-36.992N 087-52-54.927W	Fl R 10s	61 19	14	Black lantern on white square structure. 61	Light Characteristic is FL R (2) 10s. Two Red Flashes in 10 seconds. HORN: 2 blasts ev 20s (2s bl-2s si-2s bl-14s si). Operates by keying the microphone five times on channel 83A.
20645	- BREAKWATER ENTRANCE SOUTH SIDE LIGHT	43-01-31.421N 087-52-54.717W	Fl G 2.5s	48 15	7	White cylindrical tower with green band.	
20650	- SOUTH ENTRANCE LIGHT 1	43-00-27.700N 087-52-37.800W	Fl G 4s	27 8	5	SG on post.	
20655	- SOUTH ENTRANCE LIGHT 2	43-00-30.047N 087-52-35.428W	Fl R 4s	35 11	5	White cylindrical tower with red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	MILWAUKEE HARBOR (Chart 14924)						
	Milwaukee						
20660	- NORTH ENTRANCE LIGHT 1	43-02-37.125N 087-52-50.021W	Fl G 4s	34 10	7	White cylindrical tower with green band.	
20665	- NORTH ENTRANCE LIGHT 2	43-02-41.207N 087-52-49.034W	Fl R 4s	32 10	4	TR on post.	
20670	- PIERHEAD LIGHT	43-01-33.378N 087-53-42.938W	Fl R 4s	45 14	7	TR on cylindrical tower.	
20675	- SOUTH PIERHEAD LIGHT 3	43-01-29.844N 087-53-40.782W	Fl G 4s	20 6	7	On grey pole with concrete base.	
20681	LAKESHORE STATE PARK ENTRANCE LT 1	43-02-06.000N 087-53-43.000W	Fl G 2.5s				Private aid.
20681.1	LAKESHORE STATE PARK ENTRANCE LT 2	43-02-05.000N 087-53-40.000W	Fl R 2.5s				Private aid.
20685	- CITY PIER SOUTH SLIP LIGHT 2	43-01-22.200N 087-53-40.000W	F R	16 5		On yellow post.	Private aid.
20690	- CITY PIER SOUTH SLIP LIGHT 1	43-01-16.800N 087-53-41.200W	F G	12 4		On yellow post.	Private aid.
20695	- CITY SOUTH PIER NO. 2 NORTH LIGHT	43-01-10.000N 087-53-38.000W	Fl G 4s	20 6		On yellow post.	Maintained from Apr. 30 to Nov. 30. Private aid.
20700	- CITY SOUTH PIER NO. 2 SOUTH LIGHT	43-01-04.900N 087-53-35.000W	Q R	20 6		On yellow post.	Maintained from Apr. 30 to Nov. 30. Private aid.
20715	- TANKER PIER LIGHT	43-00-54.000N 087-53-24.000W	Fl W 4s	14 4		On green post.	Private aid.
20720	- SOUTH DISPOSAL AREA LIGHT 2	43-00-17.366N 087-53-03.971W	Fl R 2.5s	31 9	4	TR on pile.	
20725	SOUTH SHORE PARK BREAKWATER LIGHT	43-00-08.800N 087-53-05.400W	Q G	16 5		On post standard.	Private aid.
20729	SOUTH SHORE PARK ENTRANCE LIGHTED BUOY 1	42-59-37.998N 087-52-28.308W	Fl G 4s	3 1		Green.	Maintained from May 1 to Oct. 15. Private aid.
20730	*South Shore Park Entrance Lighted Buoy 2*	42-59-41.062N 087-52-21.485W	Fl R 2.5s			Red.	Maintained from May 1 to Oct. 15. Private aid.
20735	Texas Rock Regulatory Buoy	42-59-28.559N 087-52-23.378W				White can with orange bands worded DANGER ROCKS.	Maintained from Apr. 14 to Oct. 14.
20751	- War Memorial South Daybeacon	43-02-19.100N 087-53-45.000W				NW on pile worded DANGER BREAKWATER.	Private aid.
20752	- War Memorial North Daybeacon	43-02-22.200N 087-53-44.800W				NW on pile worded DANGER BREAKWATER.	Private aid.
20754	VETERANS PARK WEST LIGHT	43-02-35.100N 087-53-18.720W	Fl W 4s				Private aid.
20754.1	VETERANS PARK EAST LIGHT	43-02-35.880N 087-53-16.360W	Fl W 4s				Private aid.
	MicKinley Marina						
	Aids to navigation maintained from Apr. 1 to Oct. 31.						
20755	- LIGHT 1	43-02-46.000N 087-52-54.500W	Q G	20 6		SG on post.	Private aid.
20756	- PREFERRED CHANNEL LIGHT A/B	43-02-48.200N 087-52-50.700W	Fl (2+1)R 6s	21 6		JR on post.	Private aid.
20757	- LIGHT 2	43-02-42.400N 087-52-52.900W	Fl R 2.5s	21 6		TR on post.	Private aid.
20758	- Daybeacon 3	43-02-51.500N 087-52-50.300W				SG on post.	Private aid.
20759	- Daybeacon 4	43-02-51.300N 087-52-46.900W				TR on post.	Private aid.
20760	- Daybeacon 5	43-03-01.000N 087-52-58.300W				SG on post.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	MILWAUKEE HARBOR (Chart 14924)						
	Milwaukee						
	MicKinley Marina						
	Aids to navigation maintained from Apr. 1 to Oct. 31.						
20761	- Daybeacon 6	43-03-00.400N 087-52-56.100W				TR on post.	Private aid.
	PORT WASHINGTON TO WAUKEGAN (Chart 14904)						
20761.5	*UWM BBB 1*	43-03-33.120N 087-51-58.320W	Q Y				Private aid.
20762	*UWM ATW*	43-05-53.760N 087-50-58.680W	Fl Y 4s				Maintained from May. 1 to Dec. 1. Private aid.
20762.1	*UWM SFS*	43-05-47.460N 087-51-52.200W	Fl Y 4s				Maintained from 1 Apr. to Nov. 1. Private aid.
20763	*Milwaukee Yacht Club Race Buoy*	43-02-15.180N 087-47-03.900W	Fl W 2.5s				Maintained from May 1 to Nov. 1. Private aid.
20765	KEVICH LIGHT	43-19-23.700N 087-53-18.500W	Iso W 8s	163 50		White cylindrical tower.	Private aid.
	Port Washington						
20770	- BREAKWATER LIGHT	43-23-06.942N 087-51-34.802W	Fl R 6s	78 24	7	On square tower.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Fog signal operates by keying the microphone five times on VHF-FM channel 83A.
20780	- HARBOR BREAKWATER LIGHT 1	43-23-04.000N 087-51-39.000W	Fl G 4s	34 10	6	White cylindrical tower with green band.	
20790	- HARBOR LIGHT 4	43-23-15.127N 087-51-48.570W	Fl R 2.5s	27 8	4	TR on post.	
20795	- MUNICIPAL MARINA LIGHT 1	43-23-17.766N 087-51-48.978W	Fl G 2.5s	27 8	5	SG on post.	
	ALGOMA TO SHEBOYGAN (Chart 14903)						
	Sheboygan						
20805	- GENERATING STATION SOUTH INTAKE CRIB LIGHT 6	43-42-55.980N 087-41-58.380W	Fl R 3s	49 15		TR on skeleton tower on cylindrical well.	Private aid.
20810	- GENERATING STATION MIDDLE INTAKE CRIB LIGHT 4	43-43-00.000N 087-41-49.600W	Fl R 10s	50 15		TR on rectangular tower.	Private aid.
20815	- *Generating Station North Intake Lighted Buoy 2*	43-43-02.000N 087-42-01.200W	Fl R 4s			Red.	Maintained from May 1 to Oct. 15. Private aid.
	MANITOWOC AND SHEBOYGAN (Chart 14922)						
	Sheboygan						
20820	- BREAKWATER LIGHT	43-44-58.200N 087-41-33.800W	Fl R 4s	55 17	8	On cylindrical tower.	HORN: 1 blast ev 30s (3s bl). Fog signal operates by keying the microphone five times on VHF-FM channel 83A.
20830	- SOUTH PIERHEAD LIGHT	43-44-54.927N 087-41-41.619W	Fl G 4s	22 7	6	SG on post.	
20832	- MARINA LIGHT 2	43-45-02.200N 087-42-03.600W	Fl R 4s	20 6		TR on pole.	Maintained from May 1 to Nov. 15. Private aid.
20833	- Marina Daybeacon 1	43-45-04.800N 087-42-04.700W				SG on pole.	Private aid.
20835	- NORTH PIERHEAD LIGHT	43-44-57.484N 087-42-09.377W	F R	29 9	6	TR on post.	
20840	- *Reef Lighted Buoy 2* Marks east side of reef.	43-45-26.718N 087-41-09.431W	Fl R 2.5s		5		Maintained from Apr. 14 to Nov. 07

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	MANITOWOC AND SHEBOYGAN (Chart 14922)						
	Manitowoc						
20842	- INTAKE EAST LIGHT	44-04-42.000N 087-38-54.000W	Q W	10 3		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
20843	- INTAKE WEST LIGHT	44-04-49.800N 087-39-18.000W	Q W	10 3		On post.	Maintained from Apr.15 to Dec. 1. Private aid.
20845	- Shoal Buoy 1 Marks northeast side of shoal.	44-05-18.132N 087-37-44.119W				Green can.	
20850	- Shoal Buoy 2	44-05-56.752N 087-37-32.183W				Red nun.	
20855	- SOUTH BREAKWATER LIGHT 3	44-05-29.101N 087-38-36.950W	Fl G 2.5s	37 11	7	White cylindrical tower with green band.	Higher intensity beam lakeward.
20860	**- Breakwater Light**	44-05-33.918N 087-38-36.910W	Iso W 6s	52 16	12	On cylindrical tower on fog signal building. 52	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying microphone five times on VHF-FM CH 83A.
20863	- No Wake Buoy	44-05-36.000N 087-38-48.000W				White can with orange bands.	Maintained from Apr. 15 to Oct. 1. Private aid.
20865	- Buoy 6	44-05-35.208N 087-38-51.063W				Red nun.	Maintained from Apr. 14 to Nov. 14.
	Manitowoc Harbor of Refuge						
20870	- Junction Buoy Mh	44-05-35.258N 087-38-58.408W				Red and green bands; nun.	Maintained from Apr. 14 to Nov. 14.
20875	- PIERHEAD LIGHT 8	44-05-32.650N 087-39-05.560W	Fl R 4s	33 10	4	TR on skeleton tower.	
20876	Manitowoc River Buoy 9	44-05-48.578N 087-39-56.399W					Maintained from Apr. 14 to Nov. 14
20878	CITY CENTRE PILE 1	44-05-49.500N 087-39-56.040W	Fl W 2.5s				Private aid.
20879	CITY CENTRE PILE 2	44-05-49.440N 087-39-56.700W	Fl W 2.5s				Private aid.
20880	- Buoy 1	44-05-37.576N 087-38-58.399W				Green can.	Maintained from Apr. 14 to Nov. 14.
20885	- Buoy 2	44-05-37.690N 087-38-53.597W				Red nun.	Maintained from Apr. 14 to Nov. 14.
20890	- Buoy 3	44-05-39.832N 087-38-58.887W				Green can.	Maintained from Apr. 14 to Nov. 14.
20895	- LIGHT 4	44-05-40.300N 087-38-56.000W	Fl R 2.5s	15 5	4	TR on post.	
20900	- ICE BOOM WEST LIGHT	44-05-41.900N 087-38-55.500W	Q R			On post.	Maintained on station only during deployment of ice boom. Private aid.
20905	- ICE BOOM EAST LIGHT	44-05-41.900N 087-38-55.900W	Q R	4 1		On post.	Maintained on station only during deployment of ice boom. Private aid.
20910	- LIGHT 5	44-05-41.900N 087-38-56.000W	Fl G 2.5s	15 5	5	SG on post.	
20915	- Daybeacon 6	44-05-41.500N 087-38-53.300W				TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	ALGOMA TO SHEBOYGAN (Chart 14903)						
	Two Rivers						
20925	- NORTH PIERHEAD LIGHT	44-08-34.030N 087-33-37.660W	Fl R 2.5s	34 10	12	White cylindrical tower with red band.	HORN: 1 blast ev 15s (2s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
20930	- SOUTH PIERHEAD LIGHT	44-08-32.034N 087-33-41.688W	Fl G 4s	30 9	4	SG on post.	
	ALGOMA TO SHEBOYGAN (Chart 14903)						
20935	**Rawley Point Light**	44-12-38.821N 087-30-31.615W	Fl W 15s	113 34	21	On cylindrical tower. 113	
	Kewaunee						
20950	- SHOAL LIGHT	44-27-03.941N 087-27-55.369W	Fl G 4s	43 13	8	White cylindrical tower with green band.	HORN: 1 blast ev 15s (2s bl). Operates from Apr. 1 to Nov. 1.
20955	**- Pierhead Light**	44-27-26.670N 087-29-34.400W	F W	45 14	12	Square tower on fog signal building. 45	HORN: 1 blast ev 30s (3s bl). Operated by keying the microphone five times on VHF FM channel 83A / 157.175MHz.
20965	- BREAKWATER LIGHT	44-27-29.310N 087-29-26.580W	Fl R 4s	39 12	8	White cylindrical tower with red band.	
20970	- NORTH PIERHEAD LIGHT 4	44-27-33.018N 087-29-48.346W	Fl R 6s	38 12	4	TR on pile.	
	LOWER GREEN BAY (Chart 14910)						
	Algoma						
20975	**- Light**	44-36-25.092N 087-25-45.513W	Iso R 6s	48 15	12	Cylindrical tower. 48	HORN: 1 blast ev 10s (1s bl). Operates by keying microphone five times on VHF-FM Ch. 83A.
20980	- LIGHT 1	44-36-23.180N 087-25-47.304W	Fl G 4s	20 6	6	SG on post.	
20985	- LIGHT 2	44-36-26.720N 087-25-48.810W	Fl R 4s	28 9	4	TR on pile on post.	
	STURGEON BAY AND CANAL (Chart 14919)						
20990	Canal Shoal Buoy 1 Marks east side of shoal.	44-45-33.500N 087-18-06.050W				Green can.	
	Sturgeon Bay Ship Canal						
20995	**- Light**	44-47-42.038N 087-18-48.030W	Fl R 10s	107 33	17	On cylindrical tower. 107	
21005	- NORTH PIERHEAD LIGHT	44-47-31.260N 087-18-34.322W	Fl R 2.5s	40 12	11	Cylindrical tower attached to fog signal building.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates by keying the microphone five times on VHF FM marine radio channel 83A/157.175MHz.
21010	- *Lighted Buoy 2*	44-46-43.000N 087-17-24.000W	Fl R 2.5s		4	Red.	Replaced by nun from Nov. 07 to Apr. 14.
21015	- Buoy 3	44-47-20.480N 087-18-27.955W				Green can.	
21020	- Buoy 4	44-47-23.718N 087-18-21.265W				Red nun.	
21025	- SOUTH PIERHEAD LIGHT	44-47-28.730N 087-18-37.700W	Fl G 4s	32 10	5	White cylindrical tower with green band.	
21030	- South Daybeacon 5A	44-47-36.000N 087-18-48.000W				SG on pile.	
21035	- LIGHT 6	44-47-38.952N 087-18-47.536W	Fl R 4s	11 3	4	TR on post.	
21040	- LIGHT 7	44-48-19.911N 087-19-50.735W	Fl G 4s	31 9	4	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	STURGEON BAY AND CANAL (Chart 14919)						
	Sturgeon Bay Ship Canal						
21045	- Buoy 9	44-48-43.334N 087-20-26.468W				Green can.	
21050	- Buoy 10	44-48-45.204N 087-20-24.138W				Red nun.	
21055	- Buoy 11	44-48-54.163N 087-20-44.188W				Green can.	
21060	- LIGHT 12	44-48-57.797N 087-20-41.601W	Fl R 4s	21 6	4	TR on pile.	
21065	- RANGE FRONT LIGHT	44-48-42.585N 087-20-10.030W	Q W	26 8		KRW on skeleton tower.	Lighted throughout 24 hours.
21070	- RANGE REAR LIGHT 1,658 feet, 120.4° from front light.	44-48-34.308N 087-19-50.194W	F W	46 14		KRW on skeleton tower.	Lighted throughout 24 hours.
	Strawberry Creek Channel Entrance *Aids maintained from Jun. 1 to Nov. 1.*						
21075	- *Lighted Bouy 1*	44-48-46.000N 087-20-38.000W				Green.	Private aid.
21080	- Buoy 2	44-48-46.300N 087-20-40.000W				Red nun.	Private aid.
21085	- LIGHT 3	44-48-44.000N 087-20-42.500W	F G	38 12		On tower.	Private aid.
21090	- LIGHT 4	44-48-43.600N 087-20-40.000W	F R	38 12		On tower.	Private aid.
21095	- RANGE FRONT LIGHT	44-48-40.000N 087-20-42.000W	F G	14 4		On post.	Private aid.
21100	- RANGE REAR LIGHT 125 feet, 190° from front light.	44-48-38.200N 087-20-43.000W	F G	20 6		On post.	Private aid.
	Sturgeon Bay Ship Channel						
21105	STURGEON BAY SHIP CANAL LEADING LIGHT	44-49-52.714N 087-22-56.999W	F G	25 8	5	NB on 2nd span from west end of highway bridge.	Lighted throughout 24 hours.
21110	Sturgeon Bay Ship Canal Buoy 15	44-49-24.745N 087-21-53.765W				Green can.	
21115	Sturgeon Bay Ship Canal Buoy 16	44-49-26.581N 087-21-52.240W				Red nun.	
21117	*Sturgeon Bay Ship Canal Lighted Buoy 15A*	44-49-35.280N 087-22-19.140W	Fl G 2.5s		4	Green can.	Replaced by can from Nov. 21 to Apr. 21.
21118	*Sturgeon Bay Ship Canal Lighted Buoy 16A*	44-49-37.260N 087-22-17.100W	Fl R 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
21120	*Sturgeon Bay Ship Canal Lighted Buoy 17*	44-49-39.863N 087-22-37.145W	Q G		4	Green.	Replaced by can from Nov. 21 to Apr. 21.
21125	Sturgeon Bay Ship Canal Buoy 19	44-50-01.860N 087-22-57.161W				Green can.	
21130	Dunlap Reef Buoy C	44-50-05.000N 087-23-11.000W				White with orange bands and orange diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21135	Dunlap Reef Buoy B	44-50-14.000N 087-23-21.900W				White can with orange bands and diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21140	Dunlap Reef Buoy D	44-50-15.800N 087-23-12.900W				White can with orange bands and diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21155	- Buoy 22	44-50-48.321N 087-23-31.719W				Red nun.	
21160	- LIGHT 21 Marks north side of Dunlap Reef.	44-50-24.844N 087-23-17.513W	Fl G 4s	31 9	7	SG on post.	Higher intensity beam up and downstream.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	STURGEON BAY AND CANAL (Chart 14919)						
	Sturgeon Bay Ship Channel						
21165	Dunlap Reef Buoy A	44-50-25.000N 087-23-21.000W				White with orange bands and orange diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21170	- Buoy 23	44-50-46.985N 087-23-35.527W				Green can.	
21175	- Buoy 24	44-51-09.613N 087-23-49.071W				Red nun.	Maintained from Apr. 21 to Nov. 21.
21180	- Buoy 25	44-51-08.531N 087-23-53.703W				Green can.	Maintained from Apr. 21 to Nov. 21.
21185	- *Lighted Buoy 26*	44-51-35.436N 087-24-09.306W	Fl R 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
21190	- LIGHT 27	44-51-34.200N 087-24-17.210W	Fl G 4s	29 9	5	SG on post.	Higher intensity beam up and downstream.
21195	- Buoy 28	44-52-04.395N 087-24-29.406W				Red nun.	
21200	- Buoy 29	44-52-02.843N 087-24-35.848W				Green can.	
21205	**- Entrance Leading Light**	44-52-07.440N 087-24-52.954W	F Y	36 11	17	KRW on cylindrical tower. 36	Sectored light, Yellow light in the channel center, green light right of channel center, red light left of channel center.
21206	- *Lighted Buoy 30*	44-52-33.000N 087-24-48.000W	Q R		4	Red.	Replaced by nun from Apr. 21 to Nov. 21.
21210	- Buoy 31 Marks east side of shoal.	44-52-45.709N 087-24-55.219W				Green can.	Maintained from Apr. 21 to Nov. 21.
21215	- *Lighted Buoy 32*	44-52-43.813N 087-24-48.727W	Fl R 2.5s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
21217	DOOR COUNTY PARK LIGHT 1	44-54-15.000N 087-24-23.000W	Fl G 4s				Maintained from Apr. 1 TO Nov. 30. Private aid.
21218	DOOR COUNTY PARK LIGHT 2	44-54-15.000N 087-24-21.000W	Fl R 4s				Private aid.
	LOWER GREEN BAY (Chart 14910)						
21220	Whitefish Point Shoal Buoy 10 Marks southeast side of shoal.	44-51-56.594N 087-11-26.557W				Red nun.	
21225	Jacksonport Shoal Buoy 2	44-57-53.100N 087-09-11.300W				Red nun.	
	UPPER GREEN BAY (Chart 14909)						
	Baileys Harbor						
21228	- FRONT RANGE LIGHT	45-04-12.700N 087-07-11.100W	F R				Private aid.
21229	- REAR RANGE LIGHT	45-04-22.200N 087-07-16.200W	F W				Private aid.
21235	- *Entrance Lighted Bell Buoy*	45-01-50.681N 087-05-56.712W	Mo (A) W		4	Red and white stripes.	Maintained from Apr. 21 to Oct. 14.
21240	- Buoy 3	45-02-16.080N 087-06-36.083W				Green can.	
21245	- Buoy 2	45-02-27.997N 087-06-00.019W				Red nun.	
21250	BAILEYS YACHT CLUB BREAKWATER LIGHT	45-03-52.000N 087-05-53.000W	Q R	18 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	UPPER GREEN BAY (Chart 14909)						
21255	**Cana Island Light**	45-05-17.234N 087-02-51.515W	F W	83 25	17	On conical tower connected to dwelling. 83	
21260	North Bay Entrance South Side Buoy 1	45-07-42.317N 087-02-50.330W				Green can.	
21265	North Bay Entrance North Side Buoy 2	45-07-52.088N 087-02-37.028W				Red nun.	
21270	Four-Foot Shoal Buoy 8 Marks south side of shoal.	45-08-59.772N 086-59-33.200W				Red nun.	
	Rowley Bay						
21273	- Buoy 1	45-10-21.420N 087-01-23.880W				Green can.	
21275	- Buoy 2 Marks west side off Barkers Reef.	45-10-36.600N 087-01-05.200W				Red nun.	
21280	Spider Reef Buoy 6 Marks south side of reef.	45-11-34.422N 086-58-05.412W				Red nun.	
21285	- East Entrance Buoy 2A Marks shoal.	45-11-38.844N 086-59-40.446W				Red nun.	
21290	- Buoy 3 Marks east side of shoal.	45-11-34.600N 087-01-35.000W				Green can.	
21295	- Buoy 4 Marks south side of shoal.	45-11-53.100N 087-01-01.000W				Red nun.	
			GREEN BAY				
	UPPER GREEN BAY (Chart 14909)						
21296	Wagon Trails Resort Buoy 1	45-13-12.000N 087-01-59.460W					Maintained from May.15 to Sep.15. Private aid.
21296.1	Wagon Trails Resort Buoy 2	45-13-12.180N 087-02-00.000W					Maintained from May.15 to Sep.15. Private aid.
21296.2	Wagon Trails Resort Buoy 3	45-13-11.700N 087-02-00.300W					Maintained from May.15 to Sep.15. Private aid.
21296.3	Wagon Trails Resort Buoy 4	45-13-11.880N 087-02-00.540W					Maintained from May.15 to Sep.15. Private aid.
21296.4	Wagon Trails Resort Buoy 5	45-13-11.880N 087-02-00.960W					Maintained from May.15 to Sep.15. Private aid.
21296.5	Wagon Trails Resort Buoy 6	45-13-11.700N 087-02-01.140W					Maintained from May.15 to Sep.15. Private aid.
			LAKE MICHIGAN				
	UPPER GREEN BAY (Chart 14909)						
	Porte Des Morts Passage						
21300	*Porte Des Morts Entrance Lighted Bell Buoy*	45-13-52.769N 086-53-54.110W	Mo (A) W		4	Red and white stripes.	Maintained from Apr. 21 to Nov. 07. AIS MMSI: 993672158.
21305	PLUM ISLAND RANGE FRONT LIGHT	45-18-13.566N 086-57-17.903W	Iso R 6s	40 12		KRW on white skeleton tower.	Visible 5.5° each side of range line.
21310	PLUM ISLAND RANGE REAR LIGHT 1,633 feet, 330° from front light.	45-18-27.521N 086-57-29.415W	F R	84 26		KRW on white cylindrical tower.	Light visible 360°. Lighted throughout 24 hours.
21320	- Outer Shoal Buoy 1 Marks east side of shoal.	45-13-57.799N 086-55-28.876W				Green can.	
21325	**Pilot Island Light**	45-17-03.067N 086-55-11.012W	Fl (2)W 6s 1s fl 1s ec. 1s fl 3s ec.	48 15	12	Yellow square tower with red roofs attached to dwelling. 48	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	UPPER GREEN BAY (Chart 14909)						
	Porte Des Morts Passage						
21330	Nine-Foot Shoal Buoy 3 Marks east side of shoal.	45-16-32.757N 086-57-03.816W				Green can.	
21335	*Waverly Shoal Lighted Bell Buoy 5* Marks northeast side of shoal.	45-17-07.178N 086-56-42.484W	Fl G 2.5s		4	Green.	Replaced by can from Nov 7 to Apr. 21.
21337	- NORTHPORT HARBOR BREAKWATER LIGHT 1	45-17-32.000N 086-58-34.000W	Fl G 2.5s	20 6		SG on blue pole.	Private aid.
21338	- NORTHPORT HARBOR BREAKWATER LIGHT 2	45-17-28.000N 086-58-30.000W	Fl R 2.5s	20 6		TR on blue pole.	Private aid.
	Detroit Island Passage						
21340	- *Lighted Buoy 2* Marks southwest side of shoal.	45-18-57.017N 086-56-18.210W	Q R		4	Red	Replaced by nun from Nov. 7 to Apr. 21.
21345	*Plum Island Lighted Buoy 1*	45-19-18.441N 086-56-43.948W	Fl G 2.5s		5	Green.	Replaced by can from Nov. 7 to Apr. 21.
	Detroit Harbor						
21348	- Entrance Buoy 2	45-19-43.047N 086-56-10.253W				Red Nun	
21350	- ENTRANCE LIGHT	45-19-55.692N 086-56-12.299W	Fl W 4s	25 8	11	SG on skeleton tower.	HORN: 1 blast ev 30s (3s bl). Operates by keyeing microphone five times on VHF-FM Ch. 83A. Ra ref.
21354	- *Channel Lighted Buoy 4*	45-19-54.177N 086-56-09.350W	Fl R 2.5s		3	Red.	Maintained from 7 May to Nov. 21.
21355	- Channel Buoy 6	45-20-04.429N 086-56-07.849W				Red nun.	
21360	- CHANNEL LIGHT 8	45-20-13.008N 086-56-07.247W	Fl R 4s	32 10	5	TR on post.	
21365	- CHANNEL LIGHT 9	45-20-16.848N 086-56-10.762W	Fl G 2.5s	32 10	4	SG on post.	
21370	- Channel Buoy 10	45-20-20.362N 086-56-08.562W				Red nun.	
21375	- Channel Buoy 12	45-20-24.120N 086-56-07.596W				Red nun.	Maintained from 07 May to 21 November
21380	- Channel Danger Buoy	45-20-26.070N 086-56-11.268W				Isolated Danger Buoy	Maintained from 07 May to 21 Nov
21385	- Channel Buoy 13	45-20-25.180N 086-56-09.041W				Green can.	Maintained from 07 May to 21 Nov
	Shipyard Island Marina						
21390	- *Lighted Buoy 2*	45-20-32.000N 086-55-45.000W	Fl R 2.5s			Red.	Maintained from May 15 to Oct. 15. Private aid.
21395	- *Lighted Buoy 4*	45-20-27.500N 086-55-12.000W	Fl R 3s			Red.	Maintained from May 15 to Oct. 15. Private aid.
21400	- *Lighted Buoy 6*	45-20-24.100N 086-54-45.600W	Fl R 3s			Red.	Maintained from May 15 to Oct. 15. Private aid.
21405	- NORTH DOCK LIGHT	45-20-24.100N 086-54-33.500W	Fl R 2.5s	10 3		SG on post.	Maintained from May 15 to Oct. 15. Private aid.
21410	- SOUTH DOCK LIGHT	45-20-23.000N 086-54-30.000W	Fl R 2.5s	10 3		TR on post.	Maintained from May 15 to Oct. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	UPPER GREEN BAY (Chart 14909)						
21420	*Fisherman Shoal Lighted Bell Buoy 6* Marks southeast side of shoal.	45-21-32.889N 086-46-12.612W	Fl R 4s		4	Red.	Replaced by nun from Nov. 07 to Apr. 21.
	Rock Island Passage						
21423	- Traffic Buoy (RI) V-AIS	45-26-06.012N 086-44-32.016W					AIS MMSI# 993682124
21425	POTTAWATOMIE LIGHT	45-25-39.503N 086-49-43.536W	Fl W 4s	159 48	7	On square skeleton tower.	Light is obscured from 275° to 020° by dense foliage on Rock Island.
21435	*St Martin Island Shoal Lighted Buoy 2* Marks south side of shoal.	45-26-36.032N 086-45-07.421W	Fl R 2.5s		4	Red.	Maintained from Apr 21 to Nov 07. AIS MMSI: 993672240
21440	St Martin Shoal Buoy 4 Marks southwest side of shoal.	45-26-39.865N 086-46-26.030W				Red nun.	Maintained from Apr. 21 to Nov. 07.
	UPPER GREEN BAY (Chart 14909)						
21445	*Little Gull Island Lighted Bell Buoy 2*	45-29-33.624N 086-42-58.051W	Fl R 4s		4	Red.	Maintained from Apr. 21 to Oct. 14.
21450	**St. Martin Island Light**	45-30-15.937N 086-45-28.000W	Fl W 10s	84 26	W 16	On hexagonal tower. 84	
21455	Gravelly Island Shoal Buoy 4 Marks west side of shoal.	45-30-45.334N 086-43-59.080W				Red nun.	
21465	SUMMER ISLAND LIGHT	45-34-19.520N 086-37-40.480W	Fl W 4s	38 12	6	NR on skeleton tower.	
	DUTCH JOHNS POINT TO FISHERY POINT (Chart 14908)						
	Manistique						
21470	*Wiggins Point Shoal Lighted Bell Buoy 4*	45-50-26.985N 086-16-52.882W	Fl R 4s		4		Maintained from Apr. 28 to Nov. 14.
21475	- LIGHT	45-56-41.556N 086-14-51.430W	Iso R 6s	50 15	9	On tower.	HORN: 1 blast ev 30s (3s bl). Operate the fog signal by keying VHF Marine radio five times on channel 83A.
21480	- WEST BREAKWATER LIGHT 1	45-56-43.423N 086-14-55.459W	Fl G 4s	26 8	4	SG on post.	
21485	- WEST PIERHEAD LIGHT 3	45-56-52.220N 086-14-47.960W	Fl G 2.5s	23 7	4	SG on post.	
	WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)						
21490	**Seul Choix Point Light**	45-55-17.083N 085-54-43.142W	Fl W 6s	80 24	13	80	
	Port Inland						
21500	- LIGHT	45-57-08.000N 085-52-06.000W		48 15		On skeleton tower.	Maintained from Apr. 15 to Dec. 15. HORN: 1 blast ev 12s (2s bl). Private aid.
21505	- OUTER RANGE FRONT LIGHT	45-58-06.000N 085-52-06.000W	Q R	25 8		Orange and white square daymark on pile.	Maintained from Apr. 15 to Dec. 15. Private aid.
21510	- OUTER RANGE REAR LIGHT 800 feet, 000° from front light.	45-58-30.000N 085-52-06.000W	F R	45 14		Orange and white square daymark on pile.	Maintained from Apr. 15 to Dec. 15. Private aid.
21515	- INNER RANGE FRONT LIGHT	45-58-25.000N 085-52-06.000W	F R	20 6		Orange and white square daymark on pile.	Maintained from Apr. 15 to Dec. 15. Private aid.
21520	- INNER RANGE REAR LIGHT 625 feet, 047° from front light.	45-58-12.000N 085-52-00.000W	F R	40 12		Orange and white square daymark on pile.	Maintained from Apr. 15 to Dec. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LAKE MICHIGAN				
	WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)						
21525	*Boulder Reef Lighted Bell Buoy 1*	45-35-12.002N 085-58-57.889W	Fl G 4s		5	Green.	Replaced by can from Nov 14 to Apr. 28.
21530	GULL ISLAND LIGHT	45-42-41.646N 085-50-33.246W	Fl W 6s	77 23	9	NR on skeleton tower.	
21535	**Lansing Shoals Light**	45-54-13.440N 085-33-42.180W	Fl W 10s	69 21	12	Gray square tower on concrete crib. 69	RACON: Y (- . - -) HORN: 1 blast ev 30s (3s bl).
21540	*Garden Island Shoal Lighted Bell Buoy 1* Marks northeast side of shoal.	45-52-05.689N 085-28-26.126W	Fl G 4s		5	Green.	Replaced by can from Nov. 14 to Apr. 28.
21545	Trout Island Shoal Buoy 5 Marks west side of shoal.	45-46-45.600N 085-44-15.000W				Green can.	
21550	Whiskey Island Shoal Buoy 6	45-47-16.657N 085-37-58.576W				Red nun.	
21555	Whiskey Island Shoal Buoy 4 Marks south side of shoal.	45-48-07.155N 085-35-30.998W				Red nun.	
21560	Squaw Island Shoal Buoy 2 Marks east side of shoal.	45-50-12.970N 085-34-05.023W				Red nun.	
21565	Squaw Island Shoal Buoy 1	45-52-18.011N 085-35-00.557W				Green can.	
21570	Potter Reef Buoy 1 Marks northeast side of reef.	45-59-50.174N 085-30-54.851W				Green can.	
21575	Millecoquins Inner Reef Buoy 2 Marks west side of reef.	46-00-43.367N 085-28-15.186W				Red nun.	
21580	NAUBINWAY ISLAND LIGHT	46-04-32.160N 085-26-41.880W	Fl W 4s	32 10	6	White cylindrical tower.	
			GREEN BAY				
	DUTCH JOHNS POINT TO FISHERY POINT (Chart 14908)						
	Big Bay De Noc						
21590	*Fayette Lighted Bell Buoy 2*	45-43-21.389N 086-40-20.728W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Oct 14.
21592	- OGONTZ BAY BOAT LAUNCH LIGHT	45-49-58.000N 086-47-14.000W		20 6		On post.	Maintained from Apr. 15 to Oct. 30. Private aid.
21595	- Shoal Buoy 1 Marks south side of shoal.	45-44-42.017N 086-42-20.294W				Green can.	
21600	*Drisco Shoal Lighted Bell Buoy 2* Marks south side of shoal.	45-33-18.905N 086-57-33.773W	Fl R 2.5s		4	Red.	Replaced by nun from Nov. 21 to Apr. 28.
21605	*Southwest Drisco Shoal Lighted Buoy DA*	45-32-09.889N 087-00-36.449W	Fl (2)W 5s		4	Black with red band and two top marks.	Replaced by can from Nov. 21 Apr. 28. AIS MMSI: 993672241
21610	**Minneapolis Shoal Light**	45-34-53.326N 086-59-55.377W	Fl W 5s	82 25	15	On white square tower with red stripe.	RACON: M (- -) HORN: 1 blast ev 30s (3s bl). Operates by keying the microphone five times on VHF-FM 83A.
21615	Corona Shoal Buoy 4	45-36-42.104N 086-57-44.535W				Red nun.	Maintained from Apr. 28 to Nov. 21.
21620	*Ford River Shoal Lighted Buoy 5* Marks southeast side of shoal.	45-38-31.957N 087-03-38.802W	Fl G 4s		4	Green.	Maintained from Apr. 28 to Nov. 21.
21621	FORD RIVER BOAT LAUNCH LIGHT	45-40-26.000N 087-08-24.000W	Fl Y 4s			On post.	Maintained from May 1 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	DUTCH JOHNS POINT TO FISHERY POINT (Chart 14908)						
	Big Bay De Noc						
21625	*Eleven Foot Shoal Lighted Bell Buoy 6*	45-38-03.891N 086-59-16.469W	Fl R 6s		4	Red.	Replaced by nun from Nov. 21 to Apr. 28.
	LITTLE BAY DE NOC (Chart 14915)						
	Little Bay De Noc						
21630	- *Lighted Buoy 8*	45-43-45.789N 087-01-30.586W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Nov. 21. AIS MMSI: 993672242
21631	Escanaba Harbor Daybeacon 1	45-44-32.700N 087-02-15.500W				SG on post.	Private aid.
21632	ESCANABA YACHT HARBOR NORTH PIERHEAD LIGHT 2	45-41-35.400N 087-02-14.200W	F R	30 9		TR on post.	Private aid.
21635	ESCANABA LIGHT Marks shoal.	45-44-47.530N 087-02-13.938W	Iso W 6s	45 14	11	White square tower with green band.	HORN: 1 blast ev 30s (3s bl). Operates by keying the microphone five times on VHF-FM Ch. 83A.
21645	Escanaba Buoy 1 Marks north side of obstruction.	45-44-50.388N 087-02-38.589W				Green can.	
21646	Basic Marine Inc. Buoy 1	45-44-53.400N 087-03-06.500W				Green can.	Maintained from Apr. 15 to Dec. 1. Private aid.
21647	Basic Marine Inc. Buoy 2	45-44-58.000N 087-03-10.000W				Red nun.	Maintained from Apr. 15 to Dec. 1. Private aid.
21650	- *Shoal Lighted Buoy 10* Marks southwest side of shoal.	45-45-31.088N 087-01-21.991W	Fl R 4s		4	Red.	Maintained from Apr. 28 to Nov 21.
21655	C & N ORE DOCK LIGHT 4	45-46-03.000N 087-03-20.000W	F R	8 2			Maintained from May 1 to Jan. 1. Private aid.
21670	Vinette Co Buoy 2 Marks submerged piling.	45-46-15.000N 087-03-20.000W				Red nun.	Maintained from Apr. 15 to Oct. 31. Private aid.
21675	Vinette Co Buoy 4 Marks submerged piling.	45-46-14.600N 087-03-28.000W				Red nun.	Maintained from Apr. 15 to Oct. 31. Private aid.
21680	Vinette Co Buoy 6 Marks submerged piling.	45-46-14.300N 087-03-45.100W				Red nun.	Maintained from Apr. 15 to Oct. 31. Private aid.
21682	*Escanaba River Lighted Buoy 1*	45-46-34.200N 087-03-21.000W	Fl G 4s			Green.	Maintained from May 1 to Nov. 15. Private aid.
21682.1	*Escanaba River Lighted Buoy 2*	45-46-35.400N 087-03-19.200W	Fl R 4s			Red.	Maintained from May 1 to Nov. 15. Private aid.
21682.2	Escanaba River Buoy 3	45-46-36.000N 087-03-24.000W				Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.3	Escanaba River Buoy 4	45-46-36.600N 087-03-23.400W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21682.4	Escanaba River Buoy 5	45-46-37.800N 087-03-29.400W				Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.5	Escanaba River Buoy 6	45-46-38.400N 087-03-28.200W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21682.6	Escanaba River Buoy 7	45-46-38.400N 087-03-33.600W				Green can.	Maintained from May 1 to Nov. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	LITTLE BAY DE NOC (Chart 14915)						
	Little Bay De Noc						
21682.7	Escanaba River Buoy 8	45-46-39.000N 087-03-32.400W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21682.8	Escanaba River Buoy 9	45-46-39.000N 087-03-39.000W				Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.9	Escanaba River Buoy 10	45-46-40.200N 087-03-37.800W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21683	Escanaba River Buoy 11	45-46-40.200N 087-03-43.800W				Green can.	Maintained from May 1 to Nov. 15. Private aid.
21683.1	Escanaba River Buoy 12	45-46-41.400N 087-03-43.200W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21683.2	Escanaba River Buoy 13	45-46-41.400N 087-03-49.200W				Green can.	Maintained from May 1 to Nov. 15. Private aid.
21683.3	Escanaba River Buoy 14	45-46-42.600N 087-03-48.600W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21683.4	Escanaba River Buoy 16	45-46-43.200N 087-03-51.000W				Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21685	- *Lighted Buoy 11*	45-48-14.000N 087-02-41.000W	Fl G 2.5s		5	Green.	Maintained from Apr. 28 to Nov. 21.
21690	*Squaw Point Lighted Buoy 12*	45-49-55.464N 087-00-25.706W	Fl R 6s		4	Red.	Maintained from Apr. 28 to Nov. 21.
	Gladstone *Buoys maintained from May 15 to Oct. 15.*						
21695	- BREAKWATER LIGHT	45-50-17.500N 087-01-03.000W	Fl G 2.5s	20 6			Private aid.
21700	- Entrance Buoy 1	45-50-18.000N 087-01-02.000W				Green can.	Private aid.
21705	- Entrance Buoy 2	45-50-19.000N 087-01-00.000W				Red nun	Private aid.
21710	- Entrance Buoy 3	45-50-19.000N 087-01-04.000W				Green can.	Private aid.
21715	- Entrance Buoy 4	45-50-20.000N 087-01-02.000W				Red nun.	Private aid.
21720	- Entrance Buoy 5	45-50-20.000N 087-01-05.000W				Green can.	Private aid.
21725	- Entrance Buoy 6	45-50-21.000N 087-01-03.000W				Red nun.	Private aid.
	Little Bay De Noc						
21730	Saunders Point Buoy 13	45-50-53.163N 086-59-44.532W				Green can.	
21735	SAUNDERS POINT LIGHT	45-50-51.985N 087-00-01.542W	Iso G 6s	28 9	6	SG on post.	
21740	Saunders Point Shoal Inside Buoy 15	45-51-07.243N 086-59-55.718W				Green can.	
21741	- HUNTERS POINT BOAT LAUNCH LIGHT	45-50-48.000N 086-50-05.000W		20 6		On post.	Maintained from Apr. 15 to Oct. 30. Private aid.
21743	*Butler Island Lighted Buoy 17*	45-51-53.000N 087-00-33.000W	Fl G 4s		3		Maintained from May 1 to Nov. 14
21746	*Days River Shoal Lighted Buoy 19*	45-53-09.000N 086-58-32.000W	Fl G 2.5s		3		Maintained from May 1 to Nov. 14

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	UPPER GREEN BAY (Chart 14909)						
21760	JACKSON HARBOR LIGHT	45-24-10.190N 086-51-01.750W	Fl R 4s	20 6	7	TR on pile.	
21765	Jackson Harbor Buoy 1	45-24-12.363N 086-50-57.274W				Green can.	
21766	Jackson Harbor Buoy 2	45-24-12.925N 086-50-59.576W				Red nun.	
21770	BOYER BLUFF LIGHT	45-25-13.860N 086-56-11.770W	Fl W 6s	220 67	8	On skeleton tower.	
21775	*Whaleback Shoal East End Lighted Bell Buoy 4*	45-21-00.685N 087-10-12.119W	Fl R 6s		4	Red.	Replaced by nun from Nov 21 to Apr. 28.
21780	Whaleback Shoal West End Buoy 1 Marks northwest side of shoal.	45-22-07.988N 087-11-49.625W				Green can.	
21785	CEDAR RIVER PIERHEAD LIGHT	45-24-26.451N 087-21-03.719W	Fl G 4s	26 8	7	SG on post.	
21787	CEDAR RIVER LIGHT 2	45-24-29.314N 087-21-01.342W	Fl R 4s	20 6	4	TR on pole.	
21790	*Cedar River Entrance Lighted Buoy 1*	45-23-43.821N 087-20-28.625W	Fl G 6s		4	Green can.	Marks rock. Maintained from 28 Apr to 21 Nov.
21793	Cedar River Buoy 3	45-24-11.634N 087-20-59.742W				Green can.	Maintained from May 14 to Nov. 14.
21793.5	Cedar River Buoy 4	45-24-11.160N 087-20-53.864W				Red nun.	Maintained from May 14 to Nov. 14.
21794	Cedar River Buoy 5	45-24-20.052N 087-21-01.260W				Green can.	Maintained from May 14 to Nov. 14
21794.1	Cedar River Buoy 6	45-24-20.766N 087-20-59.694W				Red nun.	Maintained from May 14 to Nov. 14.
21794.2	Cedar River Buoy 9	45-24-24.042N 087-21-02.530W				Green can.	Maintained from May 14 to Nov. 14.
21794.3	Cedar River Buoy 10	45-24-23.400N 087-21-01.428W				Red nun.	Maintained from May 14 to Nov. 14.
21794.4	Cedar River Buoy 11	45-24-25.776N 087-21-02.877W				Green can.	Maintained from May 14 to Nov. 14.
21794.5	Cedar River Buoy 12	45-24-25.410N 087-21-01.536W				Red nun.	Maintained from May 14 to Nov. 14.
21795	Sister Islands Buoy 1	45-13-33.614N 087-09-07.634W				Green can.	
21797	YACHT WORKS MARINA WEST BREAKWATER LIGHT A	45-12-12.000N 087-07-16.200W	Fl W 4s	22 7			Private aid.
21798	YACHT WORKS MARINA BREAKWATER LIGHT 1	45-12-08.460N 087-07-15.300W	Fl G 2.5s	27 8		SG on pile.	Private aid.
21799	YACHT WORKS MARINA BREAKWATER LIGHT 2	45-12-08.340N 087-07-13.740W	Fl R 2.5s	31 9		TR on pile.	Private aid.
21800	SISTER BAY MARINA LIGHT 1	45-11-54.000N 087-07-12.000W	Fl G 4s	20 6		SG on post.	Private aid.
21802	SISTER BAY RESORT AND YACHT CLUB LIGHT	45-11-25.000N 087-07-24.000W	Fl R 2s	5 2		On post.	Maintained from May 1 to Nov. 1. Private aid.
21805	*Horseshoe Reef Lighted Buoy 2* Marks southeast side of reef.	45-12-59.653N 087-11-54.104W	Fl R 4s		4	Red.	Replaced by nun from Oct. 14 to May 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	UPPER GREEN BAY (Chart 14909)						
21810	Sister Shoals Buoy 3	45-11-57.157N 087-10-37.218W				Green can.	
21815	HORSESHOE ISLAND LIGHT	45-10-38.152N 087-12-41.395W	Fl G 4s	33 10	4	NB on post.	
	Strawberry Channel						
21820	- Northeast Buoy 4 Marks east side of shoal.	45-10-48.000N 087-14-55.600W				Red nun.	
21825	EAGLE BLUFF LIGHT	45-10-07.300N 087-14-11.980W	Fl W 6s	75 23	6	Yellow square tower with brown roof attached to dwelling	Light is obscured from 220° to 030°.
21830	- *Southeast Lighted Bell Buoy 6*	45-09-02.846N 087-14-59.535W	Fl R 4s		3	Red.	No winter mark from Oct. 14 to May 1.
21835	- *Mid-Channel Lighted Buoy S*	45-08-33.000N 087-16-22.000W	Fl (2+1)R 6s		4	Red and green bands.	Replaced by nun from Oct. 14 to May 1.
21845	Hanover Shoal Buoy 2	45-08-33.557N 087-17-42.293W				Red nun.	Replaced by smaller nun from Oct. 14 to Apr. 1.
21850	Hat Island South Shoal Buoy HI	45-05-17.177N 087-19-23.883W				Black can with red band. Topmark spheres.	Maintained from Apr. 21 to Oct. 14.
	UPPER GREEN BAY (Chart 14909)						
21851	EGG HARBOR LIGHT 1	45-02-57.225N 087-17-03.198W	Fl G 4s				Private aid.
	Strawberry Channel						
21855	*Anchorage Cove Lighted Buoy 1*	45-04-08.000N 087-16-54.000W	Q G			Green.	Maintained from May 1 to Oct. 30. Private aid.
21860	*Anchorage Cove Lighted Buoy 2*	45-04-06.000N 087-16-54.000W	Q R			Red.	Maintained from May 1 to Oct. 30. Private aid.
21865	Anchorage Cove Buoy 3	45-04-06.000N 087-16-54.000W				Green can.	Maintained from May 1 to Oct. 30. Private aid.
21870	Anchorage Cove Buoy 4	45-04-06.000N 087-16-54.000W				Red nun.	Maintained from May 1 to Oct. 30. Private aid.
21875	LILLA HAMMAR LIGHT 1	45-03-58.200N 087-17-07.800W	F G	12 4		SG on post.	Maintained from Jun. 15 to Sep. 15. Private aid.
21880	LILLA HAMMAR LIGHT 2	45-03-58.200N 087-17-07.800W	F R	12 4		TR on post.	Maintained from Jun. 15 to Sep. 15. Private aid.
21885	LILLA HAMMAR ENTRANCE LIGHT	45-04-15.000N 087-16-50.000W	F W	9 3		On post.	Maintained from Jun. 15 to Sep. 15. Private aid.
21890	*Chambers Islands North Shoal Lighted Bell Buoy 1*	45-14-24.042N 087-19-48.305W	Fl G 4s		4	Green.	Replaced by can from Nov 14 to Apr. 21.
21895	**Chambers Island Light**	45-12-06.432N 087-21-56.354W	Fl W 6s	97 30	12	On skeleton tower. 60	
21900	*Chambers Island West Shoal Lighted Bell Buoy 3*	45-10-48.124N 087-24-23.486W	Fl G 2.5s		4	Green.	Replaced by can from Nov 14 to Apr. 21. AIS MMSI: 993672243
	MENOMINEE AND MARINETTE HARBORS (Chart 14917)						
	Menominee						
21905	- MARINA BREAKWATER LIGHT 2	45-06-23.000N 087-36-00.000W	Fl R 4s	40 12		TR on post.	Private aid.
21910	- Marina Breakwater Daybeacon 3	45-06-23.600N 087-36-03.700W				SG on post.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	MENOMINEE AND MARINETTE HARBORS (Chart 14917)						
	Menominee						
21915	- *Shoal Lighted Bell Buoy 2A*	45-06-19.848N 087-34-26.085W	Fl R 4s		4	Red.	Replaced by nun from Nov. 14 to Apr. 21.
21920	- *Entrance Lighted Buoy 1* Marks shoal.	45-05-55.949N 087-34-33.985W	Fl G 2.5s		4	Green can.	Replaced by can buoy from Nov 14 to Apr 21. AIS MMSI: 993672244
21925	- *Entrance Lighted Buoy 2* Marks shoal.	45-06-00.248N 087-34-40.785W	Fl R 2.5s		4	Red nun.	Replaced by nun buoy from Nov 14 to Apr 21. AIS MMSI 993672245
21930	MARINETTE PIERHEAD LIGHT 3	45-05-47.089N 087-35-06.301W	Fl G 4s	25 8	4	SG on post.	
21935	- PIERHEAD LIGHT 4	45-05-50.110N 087-35-09.701W	Oc R 4s	46 14	9		
21940	**- Pier Light 6**	45-05-46.930N 087-35-19.160W	F R	59 18	12	On red skeleton tower. 50	
21945	- River Buoy 2	45-06-01.951N 087-36-58.774W				Red nun.	Maintained from May 7 to Nov. 7.
21950	- River Buoy 4	45-06-03.991N 087-37-07.954W				Red nun.	Maintained from May 7 to Nov. 7.
21955	- River Buoy 6	45-06-04.471N 087-37-13.114W				Red nun.	Maintained from May 7 to Nov. 7.
21957	- River Buoy 7 Marks shoal.	45-06-04.891N 087-37-26.434W				Green can.	Maintained from May 7 to Nov. 7.
21960	Menekaunee Shoal Buoy 6	45-04-14.553N 087-34-02.582W				Red nun.	
	UPPER GREEN BAY (Chart 14909)						
21965	*Green Island Shoal Lighted Buoy 1*	45-03-37.456N 087-31-30.681W	Fl G 4s		4	Green.	Replaced by can from Nov. 14 to Apr. 28. Marks west side of shoal.
21970	GREEN ISLAND LIGHT	45-03-20.556N 087-29-30.562W	Fl W 6s	80 24	9	NR on skeleton tower.	
21975	Green Island Southeast Shoal Buoy 2	45-02-40.625N 087-28-51.456W				Red nun.	Maintained from Apr. 28 to Nov. 14. AIS MMSI: 993672246
21980	MARINETTE LITTLE RIVER LIGHT	45-02-42.000N 087-37-30.000W	Fl Y 2.5s	28 9		NY on post.	Private aid.
	LOWER GREEN BAY (Chart 14910)						
21985	Monument Shoal Buoy 5 Marks west side of shoal.	44-59-34.492N 087-22-56.532W				Green can.	
21990	PESHTIGO REEF LIGHT Marks southeast side of shoal.	44-57-23.872N 087-34-44.820W	Fl W 6s	72 22	9	On white column with red band.	HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
21995	*Sherwood Point Lighted Buoy 7*	44-54-52.727N 087-27-42.872W	Fl G 4s		4	Green.	Replaced by can from Nov. 14 to Apr. 21.
22000	**Sherwood Point Light**	44-53-34.000N 087-26-00.360W	Iso W 6s	61 19	12	White square tower, dwelling attached. 61	
22005	*Sherwood Point Traffic Lighted Bell Buoy*	44-53-34.312N 087-24-51.469W	Mo (A) W		4	Red and white stripes.	Maintained from Apr. 21 to Nov. 21. AIS MMSI: 993672247

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	LOWER GREEN BAY (Chart 14910)						
	Little Sturgeon						
	Buoys maintained from May 15 to Oct. 15.						
22012.1	- Buoy 1	44-50-36.600N 087-32-48.000W				Green can.	Private aid.
22012.2	- Buoy 2	44-50-38.000N 087-32-54.000W				Red nun.	Private aid.
22012.3	- Buoy 3	44-50-31.000N 087-33-02.000W				Green can.	Private aid.
22012.4	- Buoy 4	44-50-33.000N 087-33-04.000W				Red nun.	Private aid.
22012.5	- Buoy 5	44-50-30.000N 087-33-08.000W				Green can.	Private aid.
22012.6	- Buoy 6	44-50-32.000N 087-33-09.000W				Red nun.	Private aid.
22012.7	- Buoy 7	44-50-31.000N 087-33-15.000W				Green can.	Private aid.
22012.8	- Buoy 8	44-50-32.000N 087-33-16.000W				Red nun.	Private aid.
22012.9	- Buoy 9	44-50-33.000N 087-33-21.000W				Green can.	Private aid.
22013	- Buoy 10	44-50-35.000N 087-33-21.000W				Red nun.	Private aid.
22013.1	- Buoy 11	44-50-37.000N 087-33-27.000W				Green can.	Private aid.
22013.2	- Buoy 12	44-50-37.000N 087-33-26.000W				Red nun.	Private aid.
22013.5	CARMODY COUNTY PARK NAVIGATIONAL LIGHT	44-50-38.000N 087-33-29.900W	Fl G 3s			On single pole.	Maintained from Apr. 1 to Sept. 30. Private aid.
22014	*Oconto Harbor Lighted Bell Buoy 2*	44-53-00.000N 087-46-00.000W	Fl R 4s		4	Red.	Replaced by nun from Oct. 14 to May 01.
22015	OCONTO HARBOR NORTH PIERHEAD LIGHT 2	44-53-57.000N 087-49-16.000W	F R	40 12		TR on pile.	Maintained from Apr. 15 to Nov. 1. Private aid.
22020	OCONTO HARBOR SOUTH PIERHEAD LIGHT 3	44-53-54.010N 087-49-19.142W	Fl G 6s	20 6	7	SG on post.	
22025	*Oconto River Lighted Buoy 4*	44-53-49.000N 087-49-32.000W	Q R			Red.	Maintained from Apr. 15 to Nov. 1. Private aid.
22035	PENSAUKEE HARBOR LIGHT	44-49-11.490N 087-53-54.462W	Fl R 4s	16 5	7	TR on post.	
22040	*Pensaukee Harbor Entrance Lighted Buoy 2*	44-49-05.731N 087-53-11.194W	Fl R 6s		3	Red.	Maintained from May 7 to Nov. 1. Buoy may be relocated without prior notice to mark the best channel.
	All Season's Marina						
22050	BAY SHORE COUNTY PARK LIGHT	44-38-19.000N 087-45-15.000W	Fl R 2s	15 5		On pile.	Maintained from May 7 to Nov. 1. Private aid.
22055	*Suamico Lighted Buoy 1*	44-38-01.593N 088-00-04.116W	Fl G 4s		3	Green.	Maintained from May 7 to Nov. 1. Buoy may be relocated without prior notice to mark the best channel.
22055.2	*Suamico Lighted Buoy 2*	44-38-02.000N 088-00-07.000W	Q R			Red.	Maintained from May 1 to Oct. 31. Private aid.
22055.3	*Suamico Lighted Buoy 3*	44-37-56.000N 088-00-12.000W	Q G			Green.	Maintained from May 1 to Oct. 31. Private aid.
22055.4	*Suamico Lighted Buoy 4*	44-37-57.000N 088-00-11.000W	Q R			Red.	Maintained from May 1 to Oct. 31. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	LOWER GREEN BAY (Chart 14910)						
	All Season's Marina						
22055.5	*Suamico Lighted Buoy 5*	44-37-52.000N 088-00-18.000W	Q G			Green.	Maintained from May 1 to Oct. 31. Private aid.
22055.6	*Suamico Lighted Buoy 6*	44-37-53.000N 088-00-19.000W	Q R			Red.	Maintained from May 1 to Oct. 31. Private aid.
22055.7	*Suamico Lighted Buoy 7*	44-37-48.000N 088-00-24.000W	Q G			Green.	Maintained from May 1 to Oct. 31. Private aid.
22065	*Suamico Lighted Buoy 9*	44-37-49.000N 088-00-28.000W	Q G			Green.	Maintained from May 1 to Oct. 31. Private aid.
22066	*Suamico Lighted Buoy 10*	44-37-50.000N 088-00-28.000W	Q R			Red.	Maintained from May 1 to Oct. 31. Private aid.
22070	Suamico River Obstruction Buoy	44-37-51.000N 088-00-32.000W				White with orange bands.	Maintained from Apr. 15 to Nov. 15. Private aid.
	Pirates Cove Marina *Buoys maintained from May 1 to Oct. 15.*						
22075	- *Lighted Buoy 1*	44-35-25.551N 087-59-33.132W	Fl G 2.5s			Green.	Private aid.
22080	- *Lighted Buoy 2*	44-35-26.739N 087-59-28.428W	Fl R 2.5s			Red.	Private aid.
22085	- Buoy 3	44-35-57.952N 087-59-58.530W				Green can.	Private aid.
22090	- Buoy 4	44-35-59.610N 087-59-54.981W				Red nun.	Private aid.
22095	- Buoy 5	44-36-21.449N 088-00-16.259W				Green can.	Private aid.
22100	- Buoy 6	44-36-22.520N 088-00-12.134W				Red nun.	Private aid.
22100.1	- Buoy 7	44-36-43.125N 088-00-31.587W				Green can.	Private aid.
22100.2	- Buoy 8	44-36-46.200N 088-00-29.417W				Red nun.	Private aid.
22100.3	- Buoy 9	44-36-50.582N 088-00-40.824W				Green can.	Private aid.
22100.4	- Buoy 10	44-36-51.219N 088-00-40.761W				Red nun.	Private aid.
	HEAD OF GREEN BAY (Chart 14918)						
	Green Bay Harbor						
	Green Bay Harbor Entrance Channel *Lighted buoys maintained from Apr. 21 to Dec. 1, unless otherwise noted.*						
22105	- *Lighted Buoy 1*	44-40-36.700N 087-52-34.700W	Fl G 2.5s		4	Green.	AIS MMSI: 993672229
22110	- *Lighted Bell Buoy 2*	44-40-39.037N 087-52-41.860W	Fl R 2.5s		4	Red.	AIS MMSI: 993672230
22115	- *Lighted Buoy 3*	44-39-53.404N 087-53-14.911W	Fl G 4s		4	Green.	
22120	- *Lighted Buoy 4*	44-39-55.074N 087-53-22.088W	Fl R 4s		4	Red.	
22125	- *Lighted Buoy 5*	44-39-07.875N 087-53-56.465W	Fl G 6s		4	Green.	AIS MMSI: 993672248
22130	**Green Bay Harbor Entrance Light**	44-39-11.134N 087-54-04.538W	Oc R 4s	72 22	12	White conical tower on cylindrical base. 72	HORN: 1 blast ev 15s (2s bl). Operate the fog signal by keying the VHF-FM marine radio five times on channel 83A.
22135	- *Lighted Buoy 7*	44-38-16.562N 087-54-43.405W	Fl G 2.5s		4	Green.	
22140	- *Lighted Buoy 8*	44-38-19.546N 087-54-50.527W	Fl R 2.5s		4	Red.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	HEAD OF GREEN BAY (Chart 14918)						
	Green Bay Harbor						
	Green Bay Harbor Entrance Channel						
	Lighted buoys maintained from Apr. 21 to Dec. 1, unless otherwise noted.						
22145	- *Lighted Buoy 9*	44-37-22.415N 087-55-32.891W	Fl G 4s		4	Green.	Replaced by can from 01 Dec to 21 Apr. AIS MMSI 993672231
22150	- *Lighted Buoy 10*	44-37-24.667N 087-55-41.519W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 21. AIS MMSI: 993672232
22155	- *Lighted Bell Buoy 11*	44-36-31.495N 087-56-20.599W	Fl G 4s		4	Green.	
22160	- *Lighted Buoy 12*	44-36-34.185N 087-56-26.396W	Fl R 4s		4	Red.	
22165	- LIGHT 14	44-35-49.473N 087-57-08.782W	Q R	40 12	6	White cylindrical tower with red band.	
22170	- *Lighted Buoy 15*	44-35-34.474N 087-57-12.969W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22175	- *Lighted Bell Buoy 16*	44-35-31.424N 087-57-31.730W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22180	- RANGE FRONT LIGHT	44-35-22.679N 087-57-27.737W	Q G	45 14		KRW on cylindrical tower.	Visible 5.5° each side of range line.
22181	- RANGE FRONT PASSING LIGHT	44-35-22.670N 087-57-27.362W	Fl Y 4s	45 14	5	On same structure as Green Bay Harbor Entrance Channel Range Front Light.	Above Range Front Light.
22185	- RANGE REAR LIGHT 5,499 feet, 213.1° from front light.	44-34-37.202N 087-58-09.261W	Oc G 4s	92 28		KRW on white cylindrical tower.	Visible 4° each side of range line.
22186	- RANGE REAR PASSING LIGHT	44-34-37.178N 087-58-09.348W	Fl Y 4s	20 6	5	On same structure as Green Bay Harbor Entrance Channel Range Rear Light	Below Range Rear Light.
22188	- *Lighted Buoy 15A*	44-35-09.852N 087-58-06.494W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28
22189	- *Lighted Buoy 16A*	44-35-13.992N 087-58-10.157W	Fl R 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28
22200	- *Lighted Buoy 17*	44-34-55.402N 087-58-37.017W	Q G		4	Green.	Replaced by can from Dec 1 to Apr 28.
22205	- LIGHT 18	44-34-56.021N 087-58-50.498W	Fl R 2.5s	35 11	7	White cylindrical tower with red band.	
22210	- *Lighted Buoy 19*	44-34-42.774N 087-58-53.372W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22215	- INNER RANGE FRONT LIGHT	44-34-48.517N 087-58-59.804W	Q G	31 9		KRW on cylindrical tower.	Visible 14° each side of range line.
22216	- INNER RANGE FRONT PASSING LIGHT	44-34-48.500N 087-58-59.861W	Fl Y 4s	30 9	5	On same structure as Green Bay Harbor Entrance Channel Inner Range Front Light.	Above Inner Range Front Light.
22220	- INNER RANGE REAR LIGHT 2,498 feet, 237.5° from front light.	44-34-35.270N 087-59-28.920W	Iso G 6s	50 15		KRW on white cylindrical tower.	Visible 14° each side of range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREEN BAY				
	HEAD OF GREEN BAY (Chart 14918)						
	Green Bay Harbor						
	Green Bay Harbor Entrance Channel						
	Lighted buoys maintained from Apr. 21 to Dec. 1, unless otherwise noted.						
22221	- INNER RANGE REAR PASSING LIGHT	44-34-35.210N 087-59-28.947W	Fl Y 4s	50 15	5	On same structure as Green Bay Harbor Entrance Channel Inner Range Rear Light.	Above Inner Range Rear Light.
22225	- *Lighted Buoy 22*	44-34-30.282N 087-59-08.531W	Fl R 2.5s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22230	- *Lighted Buoy 21*	44-34-29.069N 087-59-04.716W	Fl G 2.5s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22235	- *Lighted Buoy 24*	44-34-02.037N 087-59-25.403W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22240	- *Lighted Buoy 23*	44-34-01.017N 087-59-21.705W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22245	- LIGHT 25	44-33-31.649N 087-59-38.266W	Fl G 2.5s	28 9	7	SG on post.	
22255	- *Lighted Buoy 27*	44-32-56.741N 087-59-57.482W	Fl G 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22260	- *Lighted Buoy 28*	44-32-58.178N 088-00-01.375W	Fl R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22265	- *Lighted Buoy 30*	44-32-22.173N 088-00-19.374W	Fl R 2.5s		4	Red.	Maintained from Apr. 28 to Dec. 1.
	Green Bay Harbor						
22270	- DISPOSAL LIGHT	44-32-21.000N 088-00-13.000W	Q W	8 2		On dolphin.	Maintained from Apr. 15 to Nov. 15. Private aid.
	South Bay Marina						
	Lights maintained from Apr. 1 to Nov. 30.						
22271	- EAST BREAKWATER LIGHT	44-32-24.100N 087-59-58.000W	Fl W 6s	11 3		On pile.	Private aid.
22271.1	- EAST MIDDLE BREAKWATER LIGHT	44-32-24.100N 088-00-04.000W	Fl W 6s	11 3		On pile.	Private aid.
22271.2	- WEST MIDDLE BREAKWATER LIGHT	44-32-24.100N 088-00-08.000W	Fl W 6s	11 3		On pile.	Private aid.
22271.3	- WEST BREAKWATER LIGHT	44-32-22.000N 088-00-11.000W	Fl W 6s	11 3		On pile.	Private aid.
	Green Bay Harbor						
22272	SOUTH BAY MARINA ENTRANCE LIGHT 1	44-32-20.800N 088-00-11.500W	F G	11 3		SG on pile.	Private aid.
22273	SOUTH BAY MARINA ENTRANCE LIGHT 2	44-32-20.000N 088-00-11.500W	F R	11 3		TR on pile.	Private aid.
			LOWER FOX RIVER AND LAKE WINNEBAGO				
	LOWER FOX RIVER (Chart 14916)						
	Green Bay City						
	Due to silting, all buoys in the Fox River and Lake Winnebago may be relocated without prior notice to mark the best channel.						
	Buoys maintained from May 14 to Oct. 14.						
22280	- Buoy 2	44-30-07.140N 088-01-27.799W				Red nun.	
22285	- Buoy 4	44-29-28.179N 088-01-38.832W				Red nun.	
22290	- Buoy 6	44-29-22.371N 088-01-44.568W				Red nun.	
22295	- Buoy 7	44-29-14.401N 088-01-52.012W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LOWER FOX RIVER AND LAKE WINNEBAGO				
	LOWER FOX RIVER (Chart 14916)						
	Green Bay City						
	Due to silting, all buoys in the Fox River and Lake Winnebago may be relocated without prior notice to mark the best channel.						
	Buoys maintained from May 14 to Oct. 14.						
22300	- Buoy 8	44-29-15.489N 088-01-53.431W				Red nun.	
22305	- Buoy 10	44-29-08.754N 088-02-05.785W				Red nun.	
22310	- Buoy 12	44-29-00.689N 088-02-20.578W				Red nun.	
22315	- Buoy 13	44-28-50.144N 088-02-36.503W				Green can.	
22320	- Buoy 14	44-28-51.686N 088-02-35.973W				Red nun.	
22323	- Buoy 16	44-28-42.173N 088-02-43.046W				Red nun.	
22325	- Buoy 18	44-28-15.606N 088-03-03.168W				Red nun.	
22330	- Buoy 19	44-27-57.886N 088-03-13.316W				Green can.	
22335	- Buoy 20	44-27-59.034N 088-03-16.140W				Red nun.	
22345	- Buoy 22	44-27-40.580N 088-03-32.836W				Red nun.	
22350	- Buoy 24	44-27-27.146N 088-03-47.615W				Red nun.	
22355	- Buoy 26	44-27-13.311N 088-04-01.513W				Red nun.	
22360	- Buoy 27	44-27-11.851N 088-03-59.399W				Green can.	
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