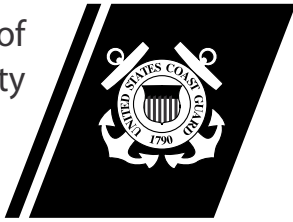


U.S. Department of  
Homeland Security

United States  
Coast Guard



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# 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.**

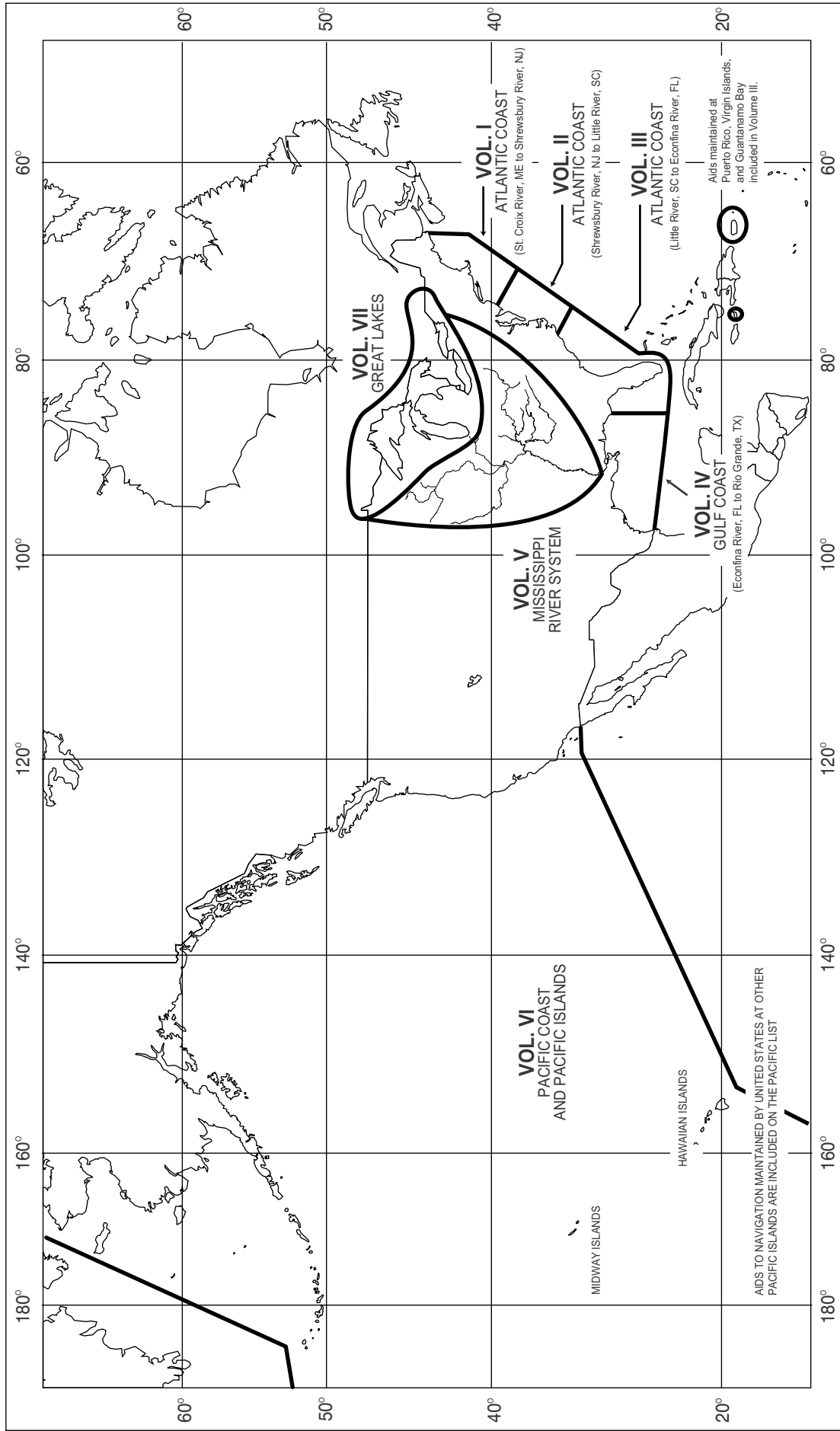
2007

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LIMITS OF LIGHT LISTS PUBLISHED BY  
**U.S. COAST GUARD**





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## U. S. COAST GUARD NINTH DISTRICT UNIT LISTING

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Green Bay, WI 54308-8486  
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#### STANT LORAIN

110 Alabama Ave  
Lorain, OH 44052-2095  
PH:(440)288-1207

#### STANT MUSKEGON

1453 Beach St.  
Muskegon, MI 49441-1082  
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#### STANT PORTAGE

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#### STANT SAGINAW RIVER

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PH:(989)892-0556

#### STANT ST. IGNANCE

1075 Huron St  
St. Ignance, MI 49871-1899  
PH:(906)643-6402

#### BUOY TENDERS

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PH:(231)547-4447/48

#### USCGC ALDER (WLB-216)

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Duluth, MN 55802-2492  
PH:(218)529-3131

#### USCGC BRISTOL BAY (WTGB-102)

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Detroit, MI 48207-4380  
PH:(313)568-9548

#### USCGC BUCKTHORN (WLI-642)

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Sault Ste. Marie, MI 49783-9501  
PH:(906)635-3288/89

#### USCGC HOLLYHOCK (WLB-214)

2700 Omar St  
Port Huron, MI 48060-8519  
PH:(810)982-2684/86

#### USCGC NEW MACKINAW (WLBB-30)

632 Coast Guard Dr.  
Cheboygan, MI 49721-1299  
PH:(231)597-2030

#### USCGC MOBILE BAY (WTGB-103)

P.O. Box 287  
Sturgeon Bay, WI 54235-0287  
PH:(920)743-2646

## USCG NAVIGATION CENTER Navigation Information Service (NIS)

The Coast Guard is the official government source of information for civil users of the Global Positioning Satellite 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 Loran-C, 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, DGPS, and LORAN 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, DGPS, and LORAN 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)**  
**7323 Telegraph Road**  
**Alexandria, VA 22310-3998**  
**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. 27/07*

<http://www.navcen.uscg.gov/lnm/d9/default.htm>

**To National Geospatial-Intelligence Agency (NGA).No. 29/07**

**The 2007 edition supersedes the 2006 Print edition.**

### RECORD OF CORRECTIONS

YEAR 2007					YEAR 2008				
1.....	12.....	23.....	33.....	43.....	1.....	12.....	23.....	33.....	43.....
2.....	13.....	24.....	34.....	44.....	2.....	13.....	24.....	34.....	44.....
3.....	14.....	25.....	35.....	45.....	3.....	14.....	25.....	35.....	45.....
4.....	15.....	26.....	36.....	46.....	4.....	15.....	26.....	36.....	46.....
5.....	16.....	27.....	37.....	47.....	5.....	16.....	27.....	37.....	47.....
6.....	17.....	28.....	38.....	48.....	6.....	17.....	28.....	38.....	48.....
7.....	18.....	29.....	39.....	49.....	7.....	18.....	29.....	39.....	49.....
8.....	19.....	30.....	40.....	50.....	8.....	19.....	30.....	40.....	50.....
9.....	20.....	31.....	41.....	51.....	9.....	20.....	31.....	41.....	51.....
10.....	21.....	32.....	42.....	52.....	10.....	21.....	32.....	42.....	52.....
11.....	22.....				11.....	22.....			

## Preface

Lights and other marine aids to navigation, maintained by or under authority of the U.S. Coast Guard and located on the waters of the Great Lakes are listed in this volume.

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 Coast Guard mooring buoys and some buoys having no lateral significance, such as special purpose, anchorage, fish net, and dredging.

### Aids to Navigation Link:

<http://www.uscgboating.org/safety/aton/system.htm>

**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.

This Light List is published via hardcopy annually, and posted electronically at:

<http://www.navcen.uscg.gov/pubs/LightLists/LightLists.htm> 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 published 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 updated monthly, and is available at:

<http://www.navcen.uscg.gov/pubs/LightLists/V7COMPLETE.pdf>

**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 published 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 :

**Ninth District Commander:  
1240 East 9<sup>th</sup> Sreet  
Cleveland, OH 44199-2060,**

or

**USCG Navigation Center, Charting Branch  
7323 Telegraph Road  
Alexandria , Virginia 22315-3940**

**Email: [Tls-pf-Nlsws@USCG.mil](mailto:Tls-pf-Nlsws@USCG.mil).**

## INTRODUCTION

Arrangement. Aids to navigation on the coasts are arranged in geographic order clockwise from north to south along the 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 north to south, 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, listed 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 listed:

Seacoast/Lake coast Lights and Secondary Lights

RACONS

Sound Signals

RIVER, HARBOR, AND OTHER LIGHTS

*Lighted Buoys*

Daybeacons and Unlighted Buoys

Light List Numbers are assigned to all federal 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 of the aid to navigation.

A dash (-) is used to indicate the bold heading is part of the name of the aid to navigation. When reporting discrepancies or making reference to such aids 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 rangelines are given in degrees and tenths.

Column (3): Geographic position of the aid to navigation in latitude and longitude. *NOTE:* Position is approximate, to the nearest second, and is intended only to facilitate locating the aid on the chart.

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

Column (5): Height above water from the focal plane of the fixed light to mean high water (low water datum on Great

Lakes), listed in feet. For metric conversion, see page F-1.

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

Column (7): 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.

Column (8): Remarks, including; sound signal characteristic, RACON, light sector arc of visibility, radar reflector, emergency lights, seasonal remarks, and Private AtoN identification.

### Abbreviations used in the Light Lists.

Al - Alternating	MHz - Megahertz
bl - blast	Mo - Morse Code
C - Canadian	Oc - Occulting
ec - Eclipse	ODAS - Anchored
ev - Every	Oceanographic
F - Fixed	Data Buoy
fl - flash	Q - Quick (Flashing)
Fl - Flashing	Ra ref - Radar
Fl(2) - Group flashing	reflector
I - Interrupted	s - seconds
Iso - Isophase (Equal interval)	si - silent
kHz - Kilohertz	SPM - Single Point
LFI - Long Flash	Mooring Buoy
lt - Lighted	SS - Sound Signal
Y - Yellow	W - White

### U.S. COAST GUARD LIGHT LISTS

Coast Guard Light Lists are sold by the Superintendent of Documents, U.S. Government Printing Office (GPO) and can be ordered by phone: (202) 512-1800; FAX: (202) 512-2250; Web: <http://bookstore.gpo.gov>; or mail: Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954. Light Lists are also available at GPO Bookstores and from GPO Sales Agents. The Light Lists can also be found online at <http://www.navcen.uscg.gov> under the "Light Lists & Corrections" heading in the left hand menu.

### NOTICES TO MARINERS

Broadcast Notices to Mariners are made by the Coast Guard through Coast Guard and Navy radio stations. These broadcast notices, which are broadcast on VHF-FM, NAVTEX, and other maritime frequencies, are navigational warnings that contain information of importance to the safety of navigation. Included are reports of deficiencies and changes to aids to navigation, the positions of ice and derelicts, and other important hydrographic information.

Radio stations broadcasting Notices to Mariners are listed in the National Ocean Service Coast Pilots and in the National Geospatial-Intelligence Agency publication Radio Navigational Aids (CDPUBRA117).



5 Local Notices to Mariners (U.S. regional coverage) are another means by which the Coast Guard disseminates navigation information for the United States, its territories, and possessions. A Local Notice to Mariners is issued by each Coast Guard district and is used to report changes and discrepancies to aids to navigation maintained by and under the authority of the Coast Guard. Local Notices to Mariners contain other marine information such as channel depths, naval operations, regattas, etc., which may affect vessels and waterways within the jurisdiction of each Coast Guard district. Reports of channel conditions, obstructions, menaces to navigation, danger areas, new chart editions, etc., are also included in the Local Notice to Mariners.

These notices are essential to all navigators for the purposes of keeping their charts, Lights Lists, Coast Pilots and other nautical publications up-to-date. These notices are published as often as required, but usually weekly. They may be obtained via the U.S. Coast Guard Navigation Center website at <http://www.navcen.uscg.gov/lnm>. Vessels operating in ports and waterways in several districts will have to obtain the Local Notice to Mariners from each district in order to be fully informed.

Weekly Notices to Mariners are prepared jointly by the National Geospatial-Intelligence Agency, the U.S. Coast Guard, and the National Ocean Service, and are published weekly by National Geospatial-Intelligence Agency.

The Weekly Notices to Mariners advise mariners of important matters affecting navigational safety including new hydrographic discoveries, changes in channels and aids to navigation. Also included are corrections to Light Lists, Coast Pilots, and Sailing Directions. Foreign marine information is also included. This notice is intended for mariners and others who have a need for information related to oceangoing operations. Because it is intended for use by oceangoing vessels, many corrections that affect small craft navigation and associated waters are not included. Information concerning small craft is contained in the Coast Guard Local Notices to Mariners only. The Weekly Notices to Mariners may be obtained free of charge via the World Wide Web (<http://pollux.nss.nima.mil/index/index.html>) or by e-mail subscription.

#### NAUTICAL CHARTS AND PUBLICATIONS

Charts and Coast Pilots covering the United States and its territories are published by the National Ocean Service (NOS), Silver Spring, MD 20910, and are for sale by NOS and authorized NOS Sales Agents. A free catalog of available NOS/NOAA products can be obtained from by phone: (301) 436-8301/(800) 638-8972; FAX: (301) 436-6829; or mail: FAA, National Aeronautical Charting Office, Distribution Division AVN-530, 6303 Ivy Lane, Suite 400, Greenbelt, MD 20770.

Maps for the Mississippi River System are published by the various U.S. Army Corps of Engineers District Engineers.

Tide Tables and Tidal Current Tables are no longer printed or distributed by NOS. Private publishing companies are printing the tables using data provided by NOS. These products may be obtained from local stores that carry marine publications.

#### AIDS TO NAVIGATION DISCREPANCIES

65 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 person 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 directly to one of the U.S. Government radio stations listed in *Chapter 3, Section 300L, Radio Navigational Aids (RAPUB 117)*.

Recommendations and requests for aids to navigation and to report aids to navigation that are no longer needed should be mailed to the Coast Guard district concerned (see pg. v).

#### U.S. AIDS TO NAVIGATION SYSTEM

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 will improve 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 degrees north latitude, which follow IALA Region A. Lateral aids to navigation in Region A vary from those located within Region B. Non-lateral aids to navigation 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.

The U.S. Aids to Navigation System is designed for use with nautical charts. Nautical charts portray the physical features of the marine environment, including soundings and other submarine features, landmarks, and other aids necessary for the proper navigation of a vessel. This crucial information cannot be obtained from other sources, even ones such as topographic maps, aeronautical charts, or atlases. The exact meaning of an aid to navigation may not be clear to the mariner unless the appropriate chart is consulted, as the chart illustrates the relationship of the individual aid to navigation to channel limits, obstructions, hazards to navigation, and to the total aids to navigation system.

The navigator should maintain and consult suitable publications and instruments for navigation depending on the vessel's requirements. This shipboard 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 by nonlateral aids to navigation where appropriate.

5 TYPES OF MARKS

Lateral marks are buoys or beacons indicating the port and starboard sides of a route to be followed, and are used in conjunction with a *conventional direction of buoyage*.

10 Generally, lateral aids to navigation indicate on which side of a vessel an aid to navigation should be passed when the vessel is proceeding in the Conventional Direction of Buoyage. Normally, the Conventional Direction of Buoyage is the direction in which a vessel enters navigable channels from seaward and proceeds towards the head of navigation. In the absence of a route leading from seaward, the Conventional Direction of Buoyage generally follows a clockwise direction around land masses. For example, proceeding southerly along the Atlantic Coast, from Florida to Texas along the Gulf Coast, and northerly along the Pacific Coast are considered as proceeding in the Conventional Direction of Buoyage. In some instances, this direction must be arbitrarily assigned. Where doubt exists, the mariner should consult charts and other nautical publications.

25 Virtually all U.S. lateral marks are located in IALA Region B and follow the traditional 3R rule of red, right, returning. A summary of the port and starboard hand lateral mark characteristics is contained in the following table.

Characteristic	Port Hand	Starboard Hand
Color	Green	Red
Shape (buoys)	Cylindrical (can) or pillar	Conical (nun) or pillar
Dayboard	Green square	Red triangle
Topmark (if fitted)	Cylinder	Cone, point upward
Light Color (if lighted)	Green	Red
Reflector Color	Green	Red
Number	Odd	Even

30 U.S. lateral aids to navigation at certain Pacific Islands are located within IALA Region A and thus exhibit opposite color significance. Port hand marks are red with square or cylindrical shapes while starboard hand marks are green with triangular or conical shapes.

35 Preferred channel marks are aids to navigation which mark channel junctions or bifurcations and often mark wrecks or obstructions. Preferred channel marks may normally be passed on either side by a vessel, but indicate to the mariner the preferred channel. Preferred channel marks are colored with red and green bands.

40 At a point where a channel divides, when proceeding in the "conventional direction of buoyage", a preferred channel in IALA Region B may be indicated by a modified port or starboard lateral mark as follows:

Characteristic	Preferred to starboard	Preferred to port
Color	Green with one broad red band	Red with one broad green band
Shape (buoys)	Cylindrical (can) or pillar	Conical (nun) or pillar
Dayboard	Green square, lower half red	Red triangle, lower half green
Topmark (when fitted)	Green square or cylinder	Red triangular cone, point upward
Light Color (if lighted)	Green	Red
Rhythm	Composite group flashing (2+1)	Composite group flashing (2+1)
Reflector color	Green	Red

45 **CAUTION:** It may not always be possible to pass on either side of preferred channel aids to navigation. The appropriate nautical chart should always be consulted.

50 Non-lateral marks have no lateral significance, but may be used to supplement the lateral aids to navigation specified above. Occasionally, daybeacons or minor lights outside of the normal channel will not have lateral significance since they do not define limits to navigable waters. These aids to navigation will utilize diamond-shaped dayboards and are divided into four diamond-shaped sectors. The side sectors of these dayboards are colored white, and the top and bottom sectors are colored black, red, or green as the situation dictates.

60 Safe water marks are used to mark fairways, mid-channels, and offshore approach points, and indicate that there is unobstructed water on all sides. They can also be used by the mariner transiting offshore waters to identify the proximity of intended landfall. Safe water marks are red and white striped and have a red spherical topmark to further aid in identification. If lighted, they display a white light with the characteristic Morse code "A".

65 Isolated danger marks are erected on, or moored over, or placed immediately adjacent to an isolated danger that may be passed on all sides. These marks should not be approached closely without special caution.

70 Isolated danger marks are colored with black and red bands, and if lighted, display a group flashing (2) white light. A topmark consisting of two black spheres, one above the other is fitted for both lighted and unlighted marks.

5 Special marks are not primarily intended to assist safe navigation, but to indicate special areas or features referred to in charts or other nautical publications. The feature should be described in a nautical document such as a chart, Light List, Coast Pilot or Notice to Mariner. Some areas that may be marked by these aids to navigation are spoil areas, pipelines, traffic separation schemes, jetties, or military exercise areas. Special marks are yellow in color and, if lighted, display a yellow light.

10 Information and regulatory marks are used to alert the mariner to various warnings or regulatory matters. These marks have orange geometric shapes against a white background. The meanings associated with the orange shapes are as follows:

- 1) An open-faced diamond signifies danger.
- 2) A vertical diamond shape having a cross centered within indicates that vessels are excluded from the marked area.
- 3) A circular shape indicates that certain operating restrictions are in effect within the marked area.

25 Warnings, instructions or explanations may be shown within the shapes.

BUOYS AND BEACONS Aids to navigation are placed on shore or on marine sites to assist a navigator to determine his position or safe course. They may mark limits of navigable channels, or warn of dangers or obstructions to navigation. The primary components of the U.S. Aids to Navigation System are beacons and buoys.

30 Buoys are floating aids to navigation used extensively throughout U.S. waters. They are moored to the seabed by sinkers with chain or other moorings of various lengths.

35 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.

40 Mariners should not rely on buoys alone for determining their positions due to factors limiting their reliability. Prudent mariners will use bearings or angles from beacons or other landmarks, soundings, and various methods of electronic navigation.

45 Buoy positions represented on nautical charts are approximate positions only, due to the practical limitations of positioning and maintaining buoys and their sinkers in precise geographical locations.

50 Buoy moorings vary in length. The mooring lengths define a "watch circle", and buoys can be expected to move within this circle. Actual watch circles do not coincide with the symbols representing them on charts.

55 Buoy positions are normally 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. Also buoys may be dragged off station, sunk or capsized by a collision with a vessel.

60 Beacons are aids to navigation which are permanently fixed to the earth's surface. They range from large light-houses 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.

65 Beacons exhibit a daymark. For small structures these are colored geometric shapes which 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 does the aid's light or reflector at night. The daymark of towers, however, consists of the structure itself. As a result, these daymarks do not infer lateral significance.

70 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.

#### LIGHTED AIDS TO NAVIGATION

75 Most lighted aids to navigation are equipped with 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.)

80 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.

85 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 thick weather. 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.

90 In regions where ice conditions prevail in the winter, the lantern panes of unattended 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.

95 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.

100 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.

5 The distance of an observer from a light cannot be estimated by its apparent intensity. Always check the characteristics of lights so powerful lights, visible in the distance, are not mistaken 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.

15 The apparent characteristic of a complex light may change with the distance of the observer. For example, a light which actually displays a characteristic of fixed white varied by flashes of alternating white and red (the rhythms having a decreasing range of visibility in the order: flashing white, flashing red, fixed white) may, when first sighted in clear weather, show as a simple flashing white light. As the vessel draws nearer, the red flash will become visible and the characteristics will apparently be alternating flashing white and red. Later, the fixed white light will be seen between the flashes and the true characteristic of the light will finally be recognized as fixed white, alternating flashing white and red (F W A I W R).

30 If a vessel has considerable vertical motion due to pitching in heavy seas, a light sighted on the horizon may alternately 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.

35 Similarly, the effects 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.

40 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.

50 Altering course on the changing sectors of a light or using the boundaries between light sectors to determine the bearing for any purpose is not recommended. 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 are present in the intervening atmosphere, a white sector might have a reddish hue.

60 The area in which a light can be observed is normally an arc with the light as the center and the range of visibility as the radius. However, on some bearings the range may be reduced by obstructions. In such cases, the obstructed arc might differ with height of eye and distance. When adjoining land cuts off a light and the arc of visibility is given, the bearing on which the light disappears may vary with the distance of the vessel from which observed and with the height of eye. When the light is cut off by a sloping hill or point of land, the light may be seen over a wider arc by a

vessel farther away than by one closer to the light.

75 The arc drawn on charts around a light is not intended to give information as to the distance at which it can be seen, but solely to indicate, in the case of lights, which do not show equally in all directions, the bearings between which the variation of visibility or obstruction of the light occurs.

#### PRIVATE AIDS TO NAVIGATION

80 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.

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

#### OIL WELL STRUCTURES

90 Oil well structures in navigable waters are not listed in the Light List. 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.

95 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 fixed or quick flashing white or red 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,

100 anchor and mooring buoys, etc., normally are not lighted. In addition, some of the structures are equipped with sound signals (bell, siren, whistle, or horn). When operating, bells sound one stroke every 15 seconds, while sirens, whistles, or horns sound a single two-second blast every 20 seconds.

#### CHARACTERISTICS OF AIDS TO NAVIGATION LIGHT COLORS

110 Only aids to navigation with green or red lights have lateral significance. When proceeding in the conventional direction of buoyage, the mariner in IALA Region B, may see the following lighted aids to navigation:

115 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).

125 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.

130 Most aids to navigation are fitted with retro reflective mate-

5 rial to increase their visibility in darkness. Red or green retro reflective material is used on lateral aids to navigation that, if lighted, will display lights of the same color.

#### LIGHT RHYTHMS

10 Light rhythms have no lateral significance. Aids to navigation with lateral significance exhibit flashing, quick, occulting or isophase light rhythms. Ordinarily, flashing lights (frequency not exceeding 30 flashes per minute) will be used.

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

Safe water marks show a white Morse code "A" rhythm (a short flash followed by a long flash).

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

Special marks show yellow lights and exhibit a flashing or fixed rhythm; however, a flashing rhythm is preferred.

25 Information and regulatory marks, when lighted, display 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.

#### 30 SHAPES

In order to provide easy identification, certain unlighted buoys and dayboards on beacons are differentiated by shape. These shapes are laterally significant only when associated with laterally significant colors.

35 Cylindrical buoys (referred to as "can buoys") and square dayboards mark the left side of a channel when proceeding from seaward. These aids to navigation are associated with solid green or green and red-banded marks where the topmost band is green.

40 Conical buoys (referred to as "nun buoys") and triangular dayboards mark the right 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.

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

#### NUMBERS

50 All solid red and solid green aids to navigation are numbered, with red aids to navigation bearing even numbers and green aids to navigation bearing odd numbers. The numbers for each increase from seaward, proceeding in the conventional direction of buoyage. Numbers are kept in approximate sequence on both sides of the channel by omitting numbers where necessary.

55 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 from seaward, proceeding in the conventional direction of buoyage and are added to numbers as suffixes.

60 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.

#### 65 DAYBOARDS

70 In order to describe the appearance and purpose of each dayboard used in the U.S. System, standard designations have been formulated. 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

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

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

80 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.

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

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

90 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.

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

##### 2. Second letter - Key color

G - Green                      R - Red

B - Black                      W - White

Y - Yellow

##### 100 3. Third letter (color of center stripe; range boards only)

5 **4. Additional information after a (-)**

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

10 -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.

15 -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.  
20

Descriptions:

**SG:** Square green dayboard with a green reflective border.

25 **SG-I:** Square green dayboard with a green reflective border and a yellow reflective horizontal strip.

**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.

30 **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.

35 **TR-I:** Triangular red dayboard with a red reflective border and a yellow reflective horizontal strip.

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

40 **TR-TY:** Triangular red dayboard with a red reflective border and a yellow reflective triangle.

**JG:** Dayboard bearing horizontal bands of green and red, green band topmost, with a green reflective border.

45 **JG-I:** Square dayboard bearing horizontal bands of green and red, green band topmost, with a green reflective border and a yellow reflective horizontal strip.

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

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

**JR:** Dayboard bearing horizontal bands of red and green, red band topmost, with a red reflective border.

55 **JR-I:** Triangular dayboard bearing horizontal bands of red and green, red band topmost, with a red reflective border and a yellow horizontal strip.

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

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

**MR:** Octagonal dayboard bearing stripes of white and red,

with a white reflective border.

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

70 **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 a white reflective border.

75 **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 a white reflective border.

**KBG:** Rectangular black dayboard bearing a central green stripe.

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

80 **KBR:** Rectangular black dayboard bearing a central red stripe.

**KBR-I:** Rectangular black dayboard bearing a central red stripe and a yellow reflective horizontal strip.

85 **KBW:** Rectangular black dayboard bearing a central white stripe.

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

**KGB:** Rectangular green dayboard bearing a central black stripe.

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

**KGR:** Rectangular green dayboard bearing a central red stripe.

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

**KGW:** Rectangular green dayboard bearing a central white stripe.

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

100 **KRB:** Rectangular red dayboard bearing a central black stripe.

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

**KRG:** Rectangular red dayboard bearing a central green stripe.

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

**KRW:** Rectangular red dayboard bearing a central white stripe.

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

**KWB:** Rectangular white dayboard bearing a central black stripe.

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

**KWG:** Rectangular white dayboard bearing a central green stripe.

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

5 KWR: Rectangular white dayboard bearing a central red stripe.

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

10 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.

15 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.

20 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.

25 ND: Rectangular white mileage marker with black numerals indicating the mile number (western rivers only).

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

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

30 These abbreviated descriptions are used in column (7) and may also be found on the illustration of U.S. Aids to Navigation System.

#### OTHER SHORT RANGE AIDS TO NAVIGATION

35 Lighthouses are placed on shore or on marine sites and most often do not show lateral markings. They assist the mariner in determining his position or safe course, or warn of obstructions or dangers to navigation. Lighthouses with no lateral significance usually exhibit a white light.

40 Occasionally, lighthouses use sectored lights to mark shoals or warn mariners of other dangers. Lights so equipped show one color from most directions and a different color or colors over definite arcs of the horizon as indicated on the appropriate nautical chart. These sectors provide approximate bearing information and the observer should note a change of color as the boundary between the sectors is crossed. Since sector bearings are not precise, they should be considered as a warning only, and used in conjunction with a nautical chart.

50 Seasonal aids to navigation are placed into service, withdrawn, or changed at specified times of the year. The dates shown in the Light List (Col. 8) are approximate and may vary due to adverse weather or other conditions.

55 Ranges are non-lateral aids to navigation employing dual 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 display rectangular dayboards of various colors and are generally, but not always lighted. When lighted, ranges may display lights of any color.

60 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 fog detector). 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.

70 The devices producing the sound, e.g., diaphones, diaphragm horns, sirens, whistles, bells, and gongs determine tones.

75 Phase characteristics are defined by the signal's sound pattern, i.e., the number of blasts and silent periods per minute and their durations. Sound signals sounded from fixed structures generally produce a specific number of blasts and silent periods each minute when operating. Buoy sound signals 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.

80 The characteristic of a sound signal can be located in column (8) of the Light List. Unless it is specifically stated that a sound signal "Operates continuously", or the signal is a bell, gong, or whistle on a buoy, it can be assumed that the sound signal only operates during times of fog, reduced visibility, or adverse weather.

90 An emergency sound signal is sounded at some locations when the main and standby signals are inoperative. If the emergency signal is of a different type or characteristic than the main signal, its characteristic is listed in column (8) of this publication.

95 *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.

#### VARIATIONS TO THE U.S. SYSTEM

100 Intracoastal Waterway aids to navigation: The Intracoastal Waterway runs parallel to the Atlantic and Gulf coasts from Manasquan Inlet, New Jersey to the Mexican border. Aids to navigation marking these waters have some portion of them marked with yellow. Otherwise, the coloring and numbering of the aids to navigation follow the same system as that in other U.S. waterways.

110 In order that vessels may readily follow the Intracoastal Waterway route, special markings are employed. These marks consist of a yellow square and yellow triangle and indicate which side the aid to navigation should be passed when following the conventional direction of buoyage. The yellow square indicates that the aid to navigation should be kept on the left side and the yellow triangle indicates that the aid to navigation should be kept on the right side.

120 The Western Rivers System, a variation of the standard U.S. Aids to Navigation System described in the preceding sections, is employed on the Mississippi River and its tributaries above Baton Rouge, LA and on certain other rivers which flow toward the Gulf of Mexico.

The Western Rivers System varies from the standard U.S. system as follows:

- 1) Aids to navigation are not numbered.
- 125 2) Numbers on aids to navigation do not have lateral significance, but rather indicate mileage from a fixed point (normally the river mouth).

- 5 3) Diamond shaped crossing dayboards, red and white or green and white as appropriate, and are used to indicate where the river channel crosses from one bank to the other.
- 10 4) Lights on green aids to navigation show a single-flash characteristic, which may be green or white.
- 5) Lights on red aids to navigation show a group-flash characteristic, which may be red or white.
- 6) Isolated danger marks are not used.

#### BRIDGE MARKINGS

15 Bridges across navigable waters are generally 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 used on drawbridges to show when they are in the closed position.

20 Green lights are used 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 retroreflective panels may be used to mark bridge piers and may also be used on bridges not required to display lights.

30 Lateral red and green lights and dayboards may mark main channels through bridges. Adjacent piers should be marked with fixed yellow lights when the main channel is marked with lateral aids to navigation.

35 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 retroreflective panels and may exhibit a yellow light that displays a Morse code "B"(-...).

40 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. They indicate the vertical clearance available under the span.

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

#### ELECTRONIC AIDS TO NAVIGATION

##### 50 RACONS

Aids to navigation may be enhanced by the use of RAдар beacons (RACONS). RACONS, when triggered by a vessel's radar, will transmit a coded reply to the vessel's radar. This reply serves to identify the RACON station by exhibiting a series of dots and dashes which appear on the radar display radially from the RACON. This display will represent the approximate range and bearing to the RACON. Although RACONS may be used on both laterally significant and non-laterally significant aids to navigation, the RACON signal itself is for identification purposes only. RACONS are also used as bridge marks to mark the point of best passage.

All RACONS operate in the radar X-band from 9,300 to 9,500 MHz. Some RACONS also operate in the 2,900 to 3,000 MHz radar S-band.

65 RACONS have a typical output of 100 to 300 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 with a directional antenna mounted at a height of 70 50 feet on a fixed structure. It must be understood that these are nominal ranges and are dependent upon many factors.

The beginning of the RACON presentation occurs about 50 yards beyond the RACON position and will persist for a number of revolutions of the radar antenna (depending on its rotation rate). Distance to the RACON can be measured to the point at which the RACON flash begins, but the figure obtained will be greater than the ship's distance from the RACON. This is due to the slight response delay in the RACON apparatus.

85 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 adjustment of 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

90 Many aids to navigation incorporate special fixtures designed to enhance the reflection of radar energy. These fixtures, called radar reflectors, help radar-equipped vessels to detect buoys and beacons, which are so equipped. They do not however, positively identify a radar target as an aid to navigation.

##### 95 LORAN-C

LORAN, an acronym for **L**ong **R**ange **N**avigation, is an electronic aid to navigation consisting of shore-based radio transmitters. The LORAN system enables users equipped with a LORAN receiver to determine their position quickly and accurately, day or night, in practically any weather.

100 A LORAN-C chain consists of three to six transmitting stations separated by several hundred miles. Within a chain, one station is designated as master (M) while the other stations are designated as secondary. Each secondary station is identified as either Victor (V), Whiskey (W), X-ray (X), Yankee (Y), or Zulu (Z).

105 The master station is always the first station to transmit. It transmits a series of nine pulses. The secondary stations then follow in turn, transmit eight pulses each, at precisely timed intervals. This cycle continuously repeats itself. The length of the cycle is measured in microseconds and is called a Group Repetition Interval (GRI).

110 LORAN-C chains are designated by the four most significant digits of their GRI. For example, a chain with a GRI of 89,700 microseconds is referred to as 8970. A different GRI is used for each chain because all LORAN-C stations broadcast in the same 90 to 110 kilohertz frequency band and would otherwise interfere with one another.



5 The LORAN-C system can be used in either a hyperbolic or  
range mode. In the widely used hyperbolic mode, a LORAN-  
C line of position is determined by measuring the time dif-  
ference between synchronized pulses received from two  
separate transmitting stations. In the range mode, a line of  
10 position is determined by measuring the time required for  
LORAN-C pulses to travel from a transmitting station to the  
user's receiver.

A user's position is determined by locating the crossing  
point of two lines of position on a LORAN-C chart. Many  
15 receivers have built-in coordinate converters that automati-  
cally display the receiver's latitude and longitude. With a  
coordinate converter, a position can be determined using a  
chart that is not overprinted with LORAN-C lines of position.

CAUTION: The latitude/longitude computation in some  
20 receivers is based upon an all seawater propagation path.  
This may lead to error if the LORAN-C signals from the vari-  
ous stations involve appreciable overland propagation  
paths. These errors may put the mariner at risk in areas  
requiring precise positioning, if the proper correctors (ASF)  
25 are not applied. *Therefore, it is recommended that mari-  
ners using Coordinate Converters check the manufacturer's  
operating manual to determine if and how corrections are  
to be applied to compensate for timing variations caused by  
the overland paths.*

30 There are two types of LORAN-C accuracy; absolute and  
repeatable. Absolute accuracy is a measure of the naviga-  
tor's ability to determine latitude and longitude position  
from the LORAN-C time differences measured. Repeatable  
accuracy is a measure of the LORAN-C navigator's ability to  
35 return to a position where readings have been taken be-  
fore.

The absolute accuracy of LORAN-C is 0.25 nautical miles,  
with 95% confidence within the published coverage area  
using standard LORAN-C charts and tables. Repeatable  
40 accuracy depends on many factors, so measurements must  
be taken to determine the repeatable accuracy in any given  
area. Coast Guard surveys have found repeatable accuracy  
to be between 30 and 170 meters in most ground wave  
coverage areas.

45 If the timing or pulse shape of a master-secondary pair  
deviates from specified tolerances, the first two pulses of  
secondary station's pulse train will blink on and off. The  
LORAN-C receiver sees this blinking signal and indicates a  
warning to the user. This warning will continue until the  
50 signals are once again in tolerance. A blinking signal is not  
exhibited during off-air periods, so a separate receiver  
alarm indicates any loss of signal. Never use a blinking  
secondary signal for navigation.

Although LORAN-C signal availability normally exceeds  
55 99.9% and scheduled off-air periods are broadcast to the  
mariners, LORAN-C should not be relied upon as the only  
aid to navigation. A prudent navigator will use radar, a radio  
direction finder, a Fathometer and any other aid to naviga-  
tion, in addition to the LORAN-C receiver.

60 LORAN-C interference

Interference to LORAN-C may result from radio transmis-  
sions by public or private sources operating near the  
LORAN-C band of 90-110kHz. Anyone observing interfer-  
ence to LORAN-C, should promptly report it to the Coast  
65 Guard command listed below. Include, in such reports, in-  
formation regarding the date, time, identifying characteris-  
tics, strength of the interfering signals and your vessel's  
position. These interference reports are very important and  
cooperation from users of LORAN-C will assist the Coast  
70 Guard in improving LORAN-C service.

Commanding Officer

U.S. Coast Guard Navigation Center

7323 Telegraph Road, Alexandria, VA 22310-  
3998

75 Phone:(703) 313-5900

FAX:(703) 313-5920

Internet: <http://www.navcen.uscg.gov>

LORAN-C Charts and Publications

80 Navigational charts overprinted with LORAN-C lines of posi-  
tion are published by the National Ocean Service and the  
National Imagery and Mapping Agency and are sold  
through National Ocean Service/NOAA. A free catalog of  
available products can be obtained from NOS by phone:  
(301) 436-6990/(800) 638-8972; FAX: (301) 436-6829; or  
85 mail: National Ocean Service/NOAA, Distribution Division  
N/ACC3, Riverdale, MD 20737-1199.

GLOBAL POSITIONING SYSTEM (GPS)

90 The Global Positioning System (GPS) is a satellite-based  
Radionavigation System providing continuous worldwide  
coverage. GPS provides navigation, position, and timing  
information to air, marine, and land users. The GPS System  
has reached Full Operating Capability (FOC). FOC status  
signifies that the system meets specific requirements of  
performance. The GPS is operated and controlled by the  
95 Department of Defense (DOD) under U.S. Air Force man-  
agement.

GPS consists of a constellation of 24 satellites, orbiting  
Earth in six planes of 4 satellites each, at an altitude of  
10,900 nautical miles. The orbit period of each satellite is  
100 12 hours. Mariners can expect 7-9 satellites available for  
use with unrestricted view of the sky. Fewer satellites will  
be available in areas where portions of the sky are blocked  
by mountains, buildings, or vegetation. At least three satel-  
lites are required for a two-dimensional solution. On May  
105 1<sup>st</sup>, 2000, the United States stopped the intentional degra-  
dation of GPS Signals known as "Selective Availability" and  
users can now expect accuracy to within 10 meters. The  
GPS system does not provide integrity information and  
mariners should exercise extreme caution when using GPS  
110 in restricted waterways.

Although originally intended for military use only, Federal  
radionavigation policy has established that GPS will be  
available for civil use. Whenever possible, advance notice  
of when the GPS satellites should not be used will be pro-  
115 vided by the DOD and made available by the U.S. Coast  
Guard. GPS status messages are available at  
<http://www.navcen.uscg.gov>

5 DIFFERENTIAL GPS (DGPS)

The Coast Guard has implemented a system for marine navigation called Differential GPS (DGPS). As the newest electronic system of navigation, DGPS transmitters provide offshore coverage and an all-weather electronic aid to navigation capability. The Coast Guard DGPS transmitting sites provide coverage to the Great Lakes, and coastal areas of the continental United States as well as selected portions of Alaska, Hawaii, Puerto Rico and the inland river system.

The Coast Guard's DGPS system achieved Full Operational Capability (FOC) on March 15, 1999. The network now meets the high standards of accuracy, integrity, reliability, availability and coverage required for the Harbor Entrance and Approach phase of navigation. As of November 2000, 56 sites were providing differential correction.

The Department of Transportation (DOT) has recognized the benefit of an augmented GPS signal for other public safety applications. In DOT's effort to expand the maritime DGPS signals into a Nationwide DGPS (NDGPS) network, an additional 10 sites are currently transmitting DGPS corrections. Some of these sites provide wide coverage to navigable waters with the same performance criteria as the Maritime DGPS signal. Where available, these signals are also useable for maritime navigation. The NDGPS network will not be completed for several years.

DGPS is an augmentation to the GPS signals. Each site corrects for small variations in the signals from each satellite that is in view at that time. Satellite signals can vary due to small changes in the satellite's circuitry and orbit and from changes caused by local weather conditions. Satellite corrections are transmitted to users via radio signals in the medium frequency band (285-325 kHz) previously used for marine radiobeacons. DGPS corrections and integrity information are transmitted using Minimum Shift Keying (MSK) modulation; the modulation data rate is usually 100 or 200 bits per second (bps) but can also be 50 bps. The range of DGPS transmissions is from 40 to 300 nautical miles.

DGPS is 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 provides absolute position accuracy of 1-5 meters.

Each DGPS site has two reference stations (which calculate the differential corrections), two integrity monitors (which ensure the differential corrections are accurate), a transmitter and communications equipment to communicate status information to and receive control commands from the control station. Each transmitter and reference station has a unique ID number that permits users to determine which site/equipment is providing their differential corrections. As distance from the transmitting site increases, the small error in the differential corrections increases; best accuracy is achieved when using the DGPS site closest to the user.

Information regarding the location of DGPS transmitters is given on page xvi. Users can access additional information and DGPS system status, submit questions, and provide comments via the Navigation Information Service website or by calling the Coast Guard Navigation Center watchstander (see below).

NAVIGATION INFORMATION SERVICE (NIS)

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

NAVIGATION CENTER Internet Service (www)

Users with access to the World Wide Web (www) can access real time or archived GPS, NDGPS, DGPS Loran-C, and LNM information at <http://www.navcen.uscg.gov> as well as subscribe to a list server that enables users to receive GPS status messages and Notice to NAVSTAR User (NANU) messages via direct Internet e-mail.

The NAVCEN 24 hour voice recording is a 3-line telephone answering machine. Up to 3 callers can listen to the 90 second recording at the same time.

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, DGPS, and LORAN 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 Navigation Center  
7323 Telegraph Road, Alexandria, VA 22310-3998  
Phone:(703) 313-5900  
FAX:(703) 313-5920  
Internet: <http://www.navcen.uscg.gov>

## GLOSSARY OF AIDS TO NAVIGATION TERMS

- 5 **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.
- 10 **Alternating Light:** 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.
- 15 **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.
- 20 **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.)
- 25 **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 on buoys.
- 30 **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.
- 35 **Buoy:** A floating object of defined shape and color, which is anchored at a given position and serves as an aid to navigation.
- 40 **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, radio-beacons, and daybeacons.
- 45 **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.
- 50 **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.
- 55 **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).
- 60 **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).
- 65 **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 the second tone of lower pitch.
- 70 **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 or 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.
- 75 **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 wire rope.
- 80 **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.
- 85 **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.
- 90 **Fixed Light:** A light showing continuously and steady, as apposed 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 character.
- 95 **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 flashes 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.)
- 100 **Floating Aid to Navigation:** A buoy, secured in its assigned position by a mooring.
- 105 **Fog Detector:** An electronic devise used o automatically determine conditions of visibility which warrant the activation of a sound signal or additional light signals.
- Fog Signal:** See sound signal.
- 110 **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.
- 115 **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.

## GLOSSARY OF AIDS TO NAVIGATION TERMS

- 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 light:** 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 the 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.
- LORAN:** An Acronym for **Long Range Navigation**, is an electronic aid to navigation consisting of shore-based radio transmitters. The LORAN system enables users equipped with a LORAN receiver to determine their position quickly and accurately, day or night, in practically any weather.
- Luminous Range:** The greatest distance a light can be expected to be seen given its nominal range and the prevailing meteorological visibility.
- Mark:** A visual aid to navigation. Often called navigational mark, includes 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 the 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 to commencement of two identical successive cycles of the characteristic of the light sound signal.
- Pile:** A long, heavy 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.

## GLOSSARY OF AIDS TO NAVIGATION TERMS

- 5 **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.
- 10 **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.
- 15 **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.
- 20 **Replaced (temporarily):** An aid to navigation previously off station, adrift, or missing restored by another aid to navigation of different type and/or characteristic.
- Reset:** A floating aid to navigation previously off station, adrift, or missing, returned to its assigned position (station).
- 25 **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.
- 30 **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.
- 35 **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 left to the starboard hand when proceeding in the conventional direction of buoyage.
- 40 **Topmark:** One or more relatively small objects of characteristic shape and color placed on an aid to identify its purpose.
- Traffic Separation Scheme:** Shipping corridors marked by buoys which separate incoming from outgoing vessels. Improperly called SEA LANES.
- 45 **Watching Properly:** An aid to navigation on its assigned position exhibiting the advertised characteristics in all respects.
- 50 **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.
- 55 **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.
- 60 **Withdrawn:** The discontinuance of a aid to navigation or equipment on an aid to navigation during severe ice conditions or for the winter season.

## ABBREVIATIONS USED IN BROADCAST NOTICE TO MARINERS

5	<b><u>Light Characteristics</u></b>		50	Temporarily Replaced by Unlighted Buoy	TRUB
	Alternating	AL		Whistle	WHIS
	Characteristic	CHAR			
	Composite Group-Flashing	FL(2+1)		<b><u>Organizations</u></b>	
	Composite Group-Occulting	OC(2+1)		Commander, Coast Guard	
10	Continuous Quick-Flashing	Q	55	District	CCGD(#)
	Fixed and Flashing	FFL		Coast Guard	CG
	Fixed	F		Corps of Engineers	COE
	Group-Flashing	FL(3)		National Geospatial-Intelligence	
	Group-Occulting	OC(2)		Agency	NGA
15	Interrupted Quick-Flashing	IQ	60	National Ocean Service	NOS
	Isophase	ISO		National Weather Service	NWS
	Morse Code	MO(A)			
	Occulting	OC		<b><u>Vessels</u></b>	
	Single-Flashing	FL		Aircraft	A/C
20			65	Fishing Vessel	F/V
	<b><u>Colors</u></b>			Liquefied Natural Gas Carrier	LNG
	Black	B		Motor Vessel2	M/V
	Blue	BU		Pleasure Craft	P/C
	Green	G		Research Vessel	R/V
25	Orange	OR	70	Sailing Vessel	S/V
	Red	R			
	White	W		<b><u>Compass Directions</u></b>	
	Yellow	Y		North	N
				South	S
30	<b><u>Aids to Navigation</u></b>		75	East	E
	Aeronautical radiobeacon	AERO RBN		West	W
	Destroyed	DESTR		Northeast	NE
	Differential GPS	DGPS		Northwest	NW
	Discontinued	DISCONTD		Southeast	SE
35	Established	ESTAB	80	Southwest	SW
	Exposed Location Buoy	ELB			
	Fog signal station	FOG SIG		<b><u>Months</u></b>	
	Light List Number	LLNR		January	JAN
	Light	LT		February	FEB
40	Lighted Bell Buoy	LBB	85	March	MAR
	Lighted Buoy	LB		April	APR
	Lighted Gong Buoy	LGB		May	MAY
	Lighted Horn Buoy	LHB		June	JUN
	Lighted Whistle Buoy	LWB		July	JUL
45	Ocean Data Acquisition System	ODAS	90	August	AUG
	Privately Maintained	PRIV MAINTD		September	SEP
	Radar Reflector	RA REF		October	OCT
	Radar responder beacon	RACON		November	NOV
	Temporarily Replaced by Lighted Buoy	TRLB		December	DEC

## ABBREVIATIONS USED IN BROADCAST NOTICE TO MARINERS















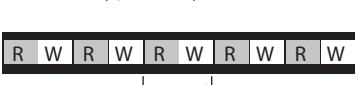

5	<b><u>Days of the Week</u></b>		Occasion/Occasionally	OCCASION
	Monday	MON	Operating Area	OPAREA
	Tuesday	TUE	Pacific	PAC
	Wednesday	WED	Point(s)	PT(S)
	Thursday	THU	55 Position	POS
10	Friday	FRI	Position Approximate	PA
	Saturday	SAT	Pressure	PRES
	Sunday	SUN	Private, Privately	PRIV
			Prohibited	PROHIB
	<b><u>Various</u></b>		60 Publication	PUB
15	Anchorage	ANCH	Range	RGE
	Anchorage prohibited	ANCH PROHIB	Reported	REP
	Approximate	APPROX	Restricted	RESTR
	Atlantic	ATL	Rock	RK
	Authorized	AUTH	65 Saint	ST
20	Average	AVG	Second (time; geo pos)	SEC
	Bearing	BRG	Signal station	SIG STA
	Breakwater	BKW	Station	STA
	Broadcast Notice to Mariners	BNM	Statute Mile(s)	SM
	Channel	CHAN	70 Storm signal station	S SIG STA
25	Code of Federal Regulations	CFR	Temporary	TEMP
	Continue	CONT	Thunderstorm	TSTORM
	Degrees (temp; geo pos)	DEG	Through	THRU
	Diameter	DIA	True	T
	Edition	ED	75 Uncovers; Dries	UNCOV
30	Effect/Effective	EFF	Universal Coordinate Time	UTC
	Entrance	ENTR	Urgent Marine Information Broadcast	UMIB
	Explosive Anchorage	EXPLOS ANCH	Velocity	VEL
	Fathom(s)	FM(S)	Vertical clearance	VERT CL
	Foot/Feet	FT	80 Visibility	VIS
35	Harbor	HBR	Yard(s)	YD
	Height	HT	Warning	WARN
	Hertz	HZ	Weather	WX
	Horizontal clearance	HOR CL	Wreck	WK
	Hour	HR	85	
40	International Regulations for Preventing Collisions at Sea	COLREGS	<b><u>Countries and States</u></b>	
	Kilohertz	KHZ	Alabama	AL
	Kilometer	KM	Alaska	AK
	Knot(s)	KT(S)	American Samoa	AS
45	Minute (time; geo pos)	MIN	90 Arizona	AZ
	Moderate	MOD	Arkansas	AR
	Mountain, Mount	MT	California	CA
	Nautical Mile(s)	NM	Canada	CN
	Notice to Mariners	NTM	Colorado	CO
50	Obstruction	OBSTR	95 Connecticut	CT

## ABBREVIATIONS USED IN BROADCAST NOTICE TO MARINERS

5	Delaware	DE	New Jersey	NJ
	District of Columbia	DC	New Mexico	NM
	Florida	FL	New York	NY
	Georgia	GA	North Carolina	NC
	Guam	GU	35 North Dakota	ND
10	Hawaii	HI	Northern Marianas	MP
	Idaho	ID	Ohio	OH
	Illinois	IL	Oklahoma	OK
	Indiana	IN	Oregon	OR
	Iowa	IA	40 Pennsylvania	PA
15	Kansas	KS	Puerto Rico	PR
	Kentucky	KY	Rhode Island	RI
	Louisiana	LA	South Carolina	SC
	Maine	ME	South Dakota	SD
	Maryland	MD	45 Tennessee	TN
20	Marshall Islands	MH	Texas	TX
	Massachusetts	MA	United States	US
	Missouri	MO	Utah	UT
	Mississippi	MS	Vermont	VT
	Mexico	MX	50 Virgin Islands	VI
25	Michigan	MI	Virginia	VA
	Minnesota	MN	Washington	WA
	Montana	MT	West Virginia	WV
	Nebraska	NE	Wisconsin	WI
	Nevada	NV	55 Wyoming	WY
30	New Hampshire	NH		



# 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.	Oc
	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.	FI
	4.1 Single-flashing. A flashing light in which a flash is regularly repeated (frequency not exceeding 30 flashes per minute).	FI
	4.2 Group-flashing. A flashing light in which a group of flashes, specified in number, is regularly repeated.	FI (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 flashes.	FI (2+1)
	5. Quick. A light in which flashes are produced at a rate of 60 flashes per minute.	Q
	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.	IQ
	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.	FFI
	8. ALTERNATING. A light showing different colors alternately	AIRW

## Geographic Sections

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# Section 1

## St. Lawrence River

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. LAWRENCE RIVER</b>							
<b>ILE ST. RÉGIS TO/À CROIL ISLANDS (Chart 1433)(C)</b>							
<b>St. Lawrence Seaway</b>							
5	- Lighted Buoy 1	45 00 14 N 74 40 06 W	<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
10	- LIGHT 2 (C)	45 00 12 N 74 40 30 W	<b>Q R</b>	40 12		White circular tower, red top. 20	Seasonal.
15	- Lighted Buoy 3	44 59 58 N 74 40 28 W	<b>Q G</b>			Green.	Spar; winter marker. S.L.S.D.C.
20	- LIGHT 4 (C)	45 00 06 N 74 41 00 W	<b>FI R</b> 4s	40 12		White circular tower, red top. 20	Seasonal.
25	- Lighted Buoy 5	44 59 54 N 74 41 00 W	<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
30	- Lighted Buoy 5A	44 59 54 N 74 41 24 W	<b>FI G</b> 4s			Green.	Winter marker. S.L.S.D.C.
35	- Lighted Buoy 5B	45 00 00 N 74 41 48 W	<b>FI G</b> 4s			Green.	S.L.S.D.C.
40	- Lighted Buoy 6		<b>FI R</b> 4s			Red.	Winter marker. S.L.S.D.C.
45	- Lighted Buoy 6A		<b>FI R</b> 4s			Red.	S.L.S.D.C.
50	- Lighted Buoy 7		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
55	- Lighted Buoy 8		<b>FI R</b> 4s			Red.	Spar; winter marker. S.L.S.D.C.
60	- Lighted Buoy 9		<b>FI G</b> 4s			Green.	S.L.S.D.C.
65	- LIGHT 10 SECTOR (C)	45 00 06 N 74 42 54 W	<b>F W</b> ( <b>R &amp; G</b> sectors)	54 16		White skeleton tower on pile crib with orange triangular daymark. 44	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 N 74 42 54 W	<b>F R</b>	51 16		White skeleton tower on pile crib with orange triangular daymark. 44	Visible from 044.5° to 051.5°. Increased intensity on a bearing of 048°. Seasonal.
70	- LIGHT 11	44 59 48 N 74 43 06 W	<b>FI G</b> 2.5s	28 9		SG on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
75	- LIGHT 13	44 59 36 N 74 43 24 W	<b>FI G</b> 4s	28 9		SG on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
80	- Lighted Buoy 14		<b>FI R</b> 4s			Red.	S.L.S.D.C.
85	- Lighted Buoy 15		<b>Q G</b>			Green.	S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
90	Aluminum Foundry Water Intake Buoy					Yellow.	Private aid.
95	- Lighted Buoy 16		<b>F I R</b> 4s			Red.	S.L.S.D.C.
100	- Lighted Buoy 17		<b>F I G</b> 4s			Green.	S.L.S.D.C.
105	POLLY'S GUT TRAINING DIKE EAST END LIGHT A		<b>Q Y</b>	15 5		On white pile.	S.L.S.D.C.
110	POLLY'S GUT TRAINING DIKE WEST END LIGHT B		<b>Q Y</b>	6 2		On box.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
115	POLLY'S GUT TRAINING DIKE A LIGHT C	44 59 30 N 74 45 48 W	<b>Q Y</b>	15 5		On white pile.	S.L.S.D.C.
120	- Buoy 18					Red nun.	S.L.S.D.C.
125	- Buoy 19					Green can.	S.L.S.D.C.
130	- LIGHT 20		<b>F R</b>	28 9		TR on wall.	S.L.S.D.C.
135	- LIGHT 21		<b>F G</b>	28 9		SG on wall.	S.L.S.D.C.
140	- LIGHT 23		<b>F G</b>	28 9		SG on wall.	S.L.S.D.C.
145	- LIGHT 24		<b>F R</b>	28 9		TR on wall.	S.L.S.D.C.
150	- LIGHT 25 About 75 feet outside channel limit.		<b>F I G</b> 2.5s	28 9		SG on pile.	S.L.S.D.C.
155	- Lighted Buoy 26	44 59 10 N 74 47 37 W	<b>F I R</b> 4s	28 9		Red.	S.L.S.D.C.
160	- MOORING CELLS LIGHT A		<b>F Y</b>	15 5			S.L.S.D.C.
165	- MOORING CELLS LIGHT B		<b>F Y</b>	15 5			S.L.S.D.C.
170	- LIGHT 28 About 63 feet outside channel limit.		<b>F I R</b> 4s	28 9		TR on pile.	S.L.S.D.C.
175	- LIGHT 29 About 73 feet outside channel limit.		<b>F I G</b> 4s	28 9		SG on pile.	S.L.S.D.C.
180	- LIGHT 30 About 50 feet outside channel limit.		<b>F I R</b> 2.5s	28 9		TR on pile.	S.L.S.D.C.
185	- LIGHT 31		<b>F I G</b> 2.5s	28 9		SG on cell.	S.L.S.D.C.
190	- MOORING CELLS LIGHT C		<b>F Y</b>	15 5			S.L.S.D.C.
195	- Lighted Buoy 32		<b>F I R</b> 4s			Red.	Winter marker. S.L.S.D.C.
200	- Buoy 32A					Red nun.	S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
205	- Lighted Buoy 33		<b>FI G</b> 4s			Green.	S.L.S.D.C.
210	- LIGHT 34	44 58 54 N 74 50 30 W	<b>FR</b>	28 9		TR on wall.	S.L.S.D.C.
215	- LIGHT 35		<b>FG</b>	28 9		SG on wall.	S.L.S.D.C.
220	- LIGHT 37		<b>FG</b>	28 9		SG on wall.	S.L.S.D.C.
225	- LIGHT 38		<b>FR</b>	28 9		TR on wall.	S.L.S.D.C.
230	- Buoy 38A					Red nun.	S.L.S.D.C.
235	- Lighted Buoy 39		<b>FI G</b> 4s			Green.	Winter marker. S.L.S.D.C.
240	- Lighted Buoy 40		<b>FIR</b> 4s			Red.	Winter marker. S.L.S.D.C.
245	- MOORING CELLS LIGHT D		<b>F Y</b>	15 5			S.L.S.D.C.
250	- LIGHT 41		<b>FI G</b> 2.5s	28 9		SG on pile.	S.L.S.D.C.
255	- LIGHT 42 About 55 feet outside channel limit.		<b>FIR</b> 2.5s	28 9		TR on pile.	S.L.S.D.C.
260	- LIGHT 43 About 55 feet outside channel limit.		<b>FI G</b> 4s	28 9		SG on pile.	S.L.S.D.C.
265	- LIGHT 44 About 50 feet outside channel limit.		<b>FIR</b> 4s	28 9		TR on pile.	S.L.S.D.C.
270	- LIGHT 45 About 75 feet outside channel limit.		<b>FI G</b> 2.5s	28 9		SG on pile.	S.L.S.D.C.
275	- LIGHT 46 About 55 feet outside channel limit.		<b>FIR</b> 2.5s	28 9		TR on pile.	S.L.S.D.C.
280	- Lighted Buoy 46A		<b>FIR</b> 4s			Red.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
285	- LIGHT 47	44 57 54 N 74 55 42 W	<b>FI G</b> 4s	28 9		SG on cell.	Maintained from Apr. 15 to Dec. 15. S.L.S.D.C.
290	- LIGHT 48 About 50 feet outside channel limit.		<b>FIR</b> 4s	28 9		TR on pile.	S.L.S.D.C.
295	- Lighted Buoy 48A	44 57 54 N 74 56 12 W	<b>FIR</b> 4s			Red.	Winter marker. S.L.S.D.C.
300	- Lighted Buoy 49		<b>FI G</b> 4s			Green.	Winter marker. S.L.S.D.C.
305	- Lighted Buoy 50		<b>FIR</b> 4s			Red.	Winter marker. S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
310	- LIGHT 51		<b>FI G</b> 4s	28 9		SG on tower.	S.L.S.D.C.
315	- <i>Lighted Buoy 52</i>		<b>FI R</b> 4s			Red.	Winter marker. S.L.S.D.C.
320	- LIGHT 54		<b>FI R</b> 2.5s	28 9		TR on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
325	- LIGHT 55 About 60 feet outside channel limit.	44 57 30 N 74 58 06 W	<b>FI G</b> 2.5s	28 9		SG on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
330	- <i>Lighted Buoy 56</i>		<b>FI R</b> 4s			Red.	Winter marker. S.L.S.D.C.
<b>CROIL ISLAND TO/Á CARDINAL (Chart 1434)(C)</b>							
<b>St. Lawrence Seaway</b>							
335	- LIGHT 57 About 125 feet outside channel limit.		<b>Q G</b>	30 9		SG on tower on cell.	S.L.S.D.C.
<b>Lake St. Lawrence Yacht Club Channel</b>							
<i>Buoys maintained from May 1 to Oct. 1.</i>							
336.1	- Buoy 1	44 56 30 N 74 59 54 W				Green can.	Private aid.
336.15	- Buoy 2					Red nun.	Private aid.
336.2	- Buoy 3					Green can.	Private aid.
336.25	- Buoy 4					Red nun.	Private aid.
336.3	- Buoy 5					Green can.	Private aid.
336.35	- Buoy 6					Red nun.	Private aid.
336.4	- Buoy 7					Green can.	Private aid.
336.45	- Buoy 8					Red nun.	Private aid.
336.5	- Buoy 9					Green can.	Private aid.
336.55	- Buoy 10					Red nun.	Private aid.
336.6	- Buoy 11					Green can.	Private aid.
336.65	- Buoy 12					Red nun.	Private aid.
340	- LIGHT 58 About 175 feet outside channel limit.		<b>FI R</b> 4s	28 9		TR on tower on cell.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
345	CAT ISLAND LEADING LIGHT	44 57 12 N 75 00 24 W	<b>F W</b>			NB on cells.	Visible 4° each side of 257.4° S.L.S.D.C.
350	- <i>Lighted Buoy 60</i> Marks shoal.		<b>Q R</b>			Red.	Winter marker. S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
<b>Wilson Hill Small Boat Channel</b>							
<i>Buoys maintained from Apr. 30 to Sep. 30.</i>							
351	- Buoy 1	44 56 24 N 75 00 30 W				Green can.	Private aid.
351.05	- Buoy 2					Red nun.	Private aid.
351.1	- Buoy 3					Green can.	Private aid.
351.15	- Buoy 4					Red nun.	Private aid.
351.2	- Buoy 5					Green can.	Private aid.
351.25	- Buoy 6					Red nun.	Private aid.
351.3	- Buoy 7					Green can.	Private aid.
351.35	- Buoy 8					Red nun.	Private aid.
351.4	- Buoy 9					Green can.	Private aid.
351.45	- Buoy 10					Red nun.	Private aid.
351.5	- Buoy 11					Green can.	Private aid.
351.55	- Buoy 12					Red nun.	Private aid.
<b>St. Lawrence Seaway</b>							
355	- Lighted Buoy 61		<b>FI G</b> 4s			Green.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
360	WILSON HILL RANGE FRONT LIGHT	44 57 00 N 74 59 42 W	<b>F G</b>	28 9		Orange triangular daymark with black stripes on square tower.	S.L.S.D.C.
365	WILSON HILL RANGE REAR LIGHT 1,500 feet, 068.7° from front light.		<b>F G</b>	58 18		Orange triangular daymark with black stripes on square tower.	S.L.S.D.C.
370	- Lighted Buoy 63		<b>FI G</b> 4s			Green.	S.L.S.D.C.
375	Weaver Shoal Anchorage Area E Lighted Buoy XA (C)	44 56 54 N 75 01 54 W	<b>FI Y</b> 4s			Yellow.	Seasonal.
380	Weaver Shoal Anchorage Area W Lighted Buoy XC (C)	44 56 30 N 75 03 24 W	<b>FI Y</b> 4s			Yellow.	Seasonal.
385	- Lighted Buoy 67		<b>FI G</b> 4s			Green.	Winter marker. S.L.S.D.C.
390	- LIGHT 68 Marks Weaver Shoal. (C)	44 55 54 N 74 04 06 W	<b>Q R</b>	45 14		White circular tower. 43	
395	- LIGHT 70 (C)	44 55 48 N 75 04 48 W	<b>FI R</b> 4s	29 9		White circular tower with red top. 20	Seasonal.
400	- LIGHT 71		<b>FI G</b> 4s	23 7		SG on pile.	S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
410	- Lighted Buoy 72 (C)	44 55 48 N 75 05 30 W	<b>Q R</b>			Red.	Seasonal.
415	- LIGHT 73		<b>FI G 2.5s</b>	30 9		SG on tower on cell.	RACON: M (--) S.L.S.D.C.
420	- Lighted Buoy 74 (C)	44 55 24 N 75 06 36 W	<b>FI R 4s</b>			Red.	Seasonal.
425	DORAN SHOAL RANGE FRONT LIGHT (C)	44 56 00 N 75 06 48 W	<b>F Y</b>	33 10		Orange triangular daymark with black stripes on skeleton tower. 26	Seasonal.
430	DORAN SHOAL RANGE REAR LIGHT 1,225 feet, 040.2° from front light. (C)		<b>F Y</b>	56 17		Orange triangular daymark with black stripes on skeleton tower. 45	Seasonal.
<b>Coles Creek Channel</b>							
<i>These private aids best mark the channel and may shift as channel conditions warrant. Maintained from Apr. 30 to Sept. 30.</i>							
435	- Lighted Buoy 1		<b>FI G 4s</b>			Green.	
440	- Lighted Buoy 2		<b>FI R 4s</b>			Red.	
445	- Lighted Buoy 3		<b>FI G 4s</b>			Green.	
450	- Lighted Buoy 4		<b>FI R 4s</b>			Red.	
455	- Lighted Buoy 5		<b>FI G 4s</b>			Green.	
460	- Lighted Buoy 6		<b>FI R 4s</b>			Red.	
465	- Lighted Buoy 7		<b>FI G 4s</b>			Green.	
470	- Lighted Buoy 8		<b>FI R 4s</b>			Red.	
475	- Lighted Buoy 9		<b>FI G 4s</b>			Green.	
480	- Lighted Buoy 10		<b>FI R 4s</b>			Red.	
<b>St. Lawrence Seaway</b>							
485	- LIGHT 75 About 100 feet outside channel limit.		<b>FI G 4s</b>	30 9		SG on tower on cell.	S.L.S.D.C.
490	- Lighted Buoy 77		<b>FI G 4s</b>			Green.	Spar; winter marker. S.L.S.D.C.
495	WEAVER SHOAL RANGE FRONT LIGHT (C)	44 55 30 N 75 07 54 W	<b>F W</b>	33 10		White triangular daymark with black stripe on skeleton tower.	Seasonal.
500	WEAVER SHOAL RANGE REAR LIGHT 1,520 feet, 262° from front light. (C)		<b>F W</b>	56 17		White inverted triangular daymark with black stripe on skeleton tower.	Seasonal.
505	- Lighted Buoy 78 (C)		<b>Q R</b>			Red.	Seasonal.
510	- LIGHT 79 About 70 feet outside channel limit.		<b>Q G</b>	30 9		SG on tower on cell.	S.L.S.D.C.

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515	GOOSE NECK ISLAND SHOALS RANGE FRONT LIGHT (C)	44 54 54 N 75 08 48 W	<b>F R</b>	33 10		Orange triangular daymark with black stripes on skeleton tower.	Seasonal.
520	GOOSE NECK ISLAND SHOALS RANGE REAR LIGHT 470 feet, 255° from front light. (C)		<b>F R</b>	45 14		Orange inverted daymark with black stripes on skeleton tower. 35	Seasonal.
530	- LIGHT 81 Marks Doran Shoal. (C)	44 54 00 N 75 09 00 W	<b>Q G</b>	37 11		White circular tower with green band at top.	Seasonal.
535	- LIGHT 82 About 150 feet outside channel limits. (C)	44 54 06 N 75 09 12 W	<b>F I R</b> 4s	29 9		White circular tower with red top. 20	Seasonal.
540	- <i>Lighted Buoy 84</i> (C)	44 53 48 N 75 09 42 W	<b>F I R</b> 4s			Red.	Seasonal.
550	- LIGHT 85		<b>F I G</b> 4s	10 3		SG on tower on cell.	Maintained from Apr. 15 to Dec. 15. S.L.S.D.C.
555	- <i>Lighted Buoy 86</i> (C)	44 53 12 N 75 11 00 W	<b>F I R</b> 4s			Red.	Seasonal.
560	<i>Canada Island</i> <i>Anchorage Area N</i> <i>Lighted Buoy XJ</i> (C)	44 53 36 N 75 10 30 W	<b>F I Y</b> 4s			Yellow.	Seasonal.
565	- <i>Lighted Buoy 87</i>		<b>F I G</b> 4s			Green.	Winter marker. S.L.S.D.C.
570	- <i>Lighted Buoy 88 (C)</i>	44 53 06 N 75 11 24 W	<b>F I R</b> 4s			Red.	
575	- <i>Lighted Buoy 89</i> Marks northwest side of Clark Island Shoal.		<b>F I G</b> 4s			Green.	S.L.S.D.C.
580	OGDEN ISLAND RANGE FRONT LIGHT	44 52 48 N 75 11 42 W	<b>F G</b>	28 9		Orange triangular daymark with black stripes on skeleton tower on cell.	S.L.S.D.C.
585	OGDEN ISLAND RANGE REAR LIGHT 950 feet, 237.3° from front light.		<b>F G</b>	52 16		Orange triangular daymark with black stripes on square tower.	S.L.S.D.C.
590	- <i>Lighted Buoy 91</i>		<b>F I G</b> 4s			Green.	S.L.S.D.C.
595	- LIGHT 92 (C)	44 52 54 N 75 12 12 W	<b>F I R</b> 4s	36 11		White circular tower with red top. 25	Seasonal.
600	MARIATOWN RANGE FRONT LIGHT (C)	44 53 00 N 75 12 36 W	<b>F G</b>	33 10		Orange triangular daymark with black stripes on white skeleton tower. 25	Seasonal.
605	MARIATOWN RANGE REAR LIGHT 443 feet, 057° from front light. (C)		<b>F G</b>	47 14		Orange inverted triangular daymark with black stripes on white skeleton tower. 35	Seasonal.
610	- <i>Lighted Buoy 92A</i> (C)	44 52 48 N 75 12 36 W	<b>F I R</b> 4s			Red.	Seasonal.

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615	- Lighted Buoy 93		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
620	- Lighted Buoy 94 (C)		<b>Q R</b>			Red.	Seasonal.
625	- Lighted Buoy 95 (C)	44 52 30 N 75 13 24 W	<b>FI G</b> 4s			Green.	Seasonal.
630	- LIGHT 96 (C)		<b>FI R</b> 4s	27 8	7	White circular tower with red top. 23	Seasonal.
635	MARIATOWN APPROACH RANGE FRONT LIGHT (C)	44 52 36 N 75 13 42 W	<b>F R</b>	38 12		Orange triangular daymark with black stripe on white skeleton tower. 25	Seasonal.
640	MARIATOWN APPROACH RANGE REAR LIGHT 500 feet, 255.4° from front light. (C)		<b>F R</b>	53 16		Orange triangular daymark with black stripe on white skeleton tower. 35	Seasonal.
645	- Lighted Buoy 96A (C)	44 52 18 N 75 14 00 W	<b>FI R</b> 4s			Red.	Seasonal.
650	- Lighted Buoy 98 (C)		<b>FI R</b> 4s			Red.	Seasonal.
655	- Lighted Buoy 99		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
660	- Lighted Buoy 100 (C)	44 51 36 N 75 15 18 W	<b>Q R</b>			Red.	Seasonal.
665	- Lighted Buoy 101 Marks shoal.		<b>FI G</b> 4s			Green.	S.L.S.D.C.
670	- Lighted Buoy 102 (C)	44 51 30 N 75 15 42 W	<b>FI R</b> 4s			Red.	Seasonal.
675	- Lighted Buoy 103		<b>FI G</b> 4s			Green.	S.L.S.D.C.
680	- Lighted Buoy 104 (C)	44 51 18 N 75 16 24 W	<b>Q R</b>			Red.	Seasonal.
685	- Lighted Buoy 105		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
700	- Lighted Buoy 107A (C)		<b>FI G</b> 4s			Green boat-shaped buoy.	Seasonal.
705	IROQUOIS LOCK RANGE FRONT LIGHT (C)	44 50 42 N 75 18 12 W	<b>F W</b>	33 10		Orange triangular daymark with black stripes on white skeleton tower.	Seasonal.
710	IROQUOIS LOCK RANGE REAR LIGHT 745 feet, 026.3° from front light. (C)		<b>F W</b>	43 13		Orange triangular daymark with black stripes on white skeleton tower. 35	Seasonal.
715	- Lighted Buoy 108 (C)		<b>Q R</b>			Red.	Seasonal.
720	- Lighted Buoy 108A (C)	44 50 24 N 75 18 30 W	<b>FI R</b> 4s			Red.	Seasonal.

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<b>ST. LAWRENCE RIVER</b>							
725	IROQUOIS APPROACH RANGE FRONT LIGHT (C)	44 50 24 N 75 18 36 W	<b>F R</b>	32 10		Orange triangular daymark with black stripes on white skeleton tower. 25	Seasonal.
730	IROQUOIS APPROACH RANGE REAR LIGHT 601 feet, 241.4° from front light. (C)		<b>F R</b>	47 14		Orange triangular daymark with black stripes on white skeleton tower. 40	Seasonal.
735	- Lighted Buoy 109 (C)		<b>Q G</b>			Green boat-shaped buoy.	Seasonal.
745	- LIGHT 111 (C)		<b>FI R 4s</b>	46 14		Orange triangular daymark on white skeleton tower. 40	Seasonal.
755	- Lighted Buoy 112 (C)	44 49 00 N 75 19 30 W	<b>FIR 4s</b>			Red.	Seasonal.
760	- Lighted Buoy 113 (C)	44 48 54 N 75 19 18 W	<b>Q G</b>			Green.	
765	- LIGHT 114 (C)	44 48 48 N 75 19 48 W	<b>FIR 4s</b>	23 7		White circular tower with red top. 20	Seasonal.
770	TOUSSAINT ISLAND WEST LIGHT (C)	44 48 42 N 75 20 00 W	<b>Iso R 2s</b>	21 6		White circular tower with red top. 20	Seasonal.
775	SPARROWHAWK POINT LEADING LIGHT	44 48 06 N 75 20 00 W	<b>F G</b>	48 15		Orange triangular daymark with black stripe on post.	Higher intensity beam on bearing 205.8°. S.L.S.D.C.
780	- LIGHT 115 About 200 feet outside channel limit.		<b>FI G 2.5s</b>	28 9		SG on pile on cell.	S.L.S.D.C.
785	- Lighted Buoy 116		<b>FIR 4s</b>			Red.	Spar; winter marker. S.L.S.D.C.
790	- Lighted Buoy 117		<b>FI G 4s</b>			Green.	Spar; winter marker. S.L.S.D.C.
795	- Lighted Buoy 118 (C)	44 47 06 N 75 22 12 W	<b>FIR 4s</b>			Red.	Seasonal.
800	- Lighted Buoy 119		<b>FI G 4s</b>			Green.	S.L.S.D.C.
805	- Lighted Buoy 120 (C)	44 46 54 N 75 22 42 W	<b>FIR 4s</b>			Red.	Seasonal.
810	GALOP ISLAND EAST RANGE FRONT LIGHT	44 46 36 N 75 22 54 W	<b>F G</b>	28 9		Orange triangular daymark with black stripes on skeleton tower.	S.L.S.D.C.
815	GALOP ISLAND EAST RANGE REAR LIGHT 1,700 feet, 227° from front light.		<b>F G</b>	60 18		Orange triangular daymark with black stripes on square tower.	S.L.S.D.C.
820	- LIGHT 121		<b>FI G 4s</b>	28 9		SG on pile on cell.	S.L.S.D.C.
825	Galop Island Sluff in Downstream Buoy					Green can.	S.L.S.D.C.
830	- Buoy 121A					Green can.	S.L.S.D.C.
835	- Lighted Buoy 122		<b>FIR 4s</b>			Red.	Spar; winter marker. S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
<b>CARDINAL TO/Á WHALEBACK SHOAL (Chart 1435)(C)</b>							
<b>St. Lawrence Seaway</b>							
840	- LIGHT 123 About 160 feet outside channel limit.		<b>FI G</b> 4s	28 9		White square daymark with green border on white pile.	S.L.S.D.C.
845	- Lighted Buoy 125		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
855	- Lighted Buoy 125A		<b>FI G</b> 4s			Green.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
860	- Lighted Buoy 126		<b>FI R</b> 4s			Red.	Winter marker. S.L.S.D.C.
865	- Lighted Buoy 127		<b>FI G</b> 4s			Green.	S.L.S.D.C.
870	DRUMMOND ISLAND RANGE FRONT LIGHT (C)	44 45 30 N 75 25 36 W	<b>Iso R</b> 2s	45 14		Orange inverted triangular daymark with black stripe on white skeleton tower. 30	Seasonal.
875	DRUMMOND ISLAND RANGE REAR LIGHT 3,168 feet, 236.5° from front light. (C)		<b>F R</b>	70 21		Orange inverted triangular daymark with black stripes on skeleton tower. 51	Seasonal.
880	GALOP ISLAND WEST RANGE FRONT LIGHT	44 45 12 N 75 25 12 W	<b>F G</b>	28 9		Orange triangular daymark with black stripes on skeleton tower.	S.L.S.D.C.
885	GALOP ISLAND WEST RANGE REAR LIGHT 1,296 feet, 058.0° from front light.	44 45 18 N 75 24 54 W	<b>F G</b>	48 15		Orange triangular daymark with black stripes on skeleton tower.	S.L.S.D.C.
890	- Lighted Buoy 126A		<b>Q R</b>			Red.	S.L.S.D.C.
895	- ICE BOOM CELL LIGHT C Marks location of anchors, cables and pile cells.		<b>F Y</b>	12 4		Post on cell.	Private aid.
900	- Lighted Buoy 129	44 44 48 N 75 25 54 W	<b>Q G</b>			Green.	Spar; winter marker. S.L.S.D.C.
905	- Lighted Buoy 128	44 44 48 N 75 26 12 W	<b>FI R</b> 4s			Red.	Spar; winter marker. S.L.S.D.C.
910	CHIMNEY ISLAND LEADING LIGHT	44 44 30 N 75 26 24 W	<b>F W</b> (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°. S.L.S.D.C.
925	- Lighted Buoy 130A (C)		<b>FI R</b> 4s			Red.	Seasonal.
940	- Lighted Buoy 131 (C)	44 44 18 N 75 27 06 W	<b>FI G</b> 4s			Green.	Seasonal.
950	- Lighted Buoy 131A (C)	44 43 42 N 75 28 00 W	<b>FI G</b> 4s			Green.	Seasonal.

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<b>ST. LAWRENCE RIVER</b>							
955	- ICE BOOM CELL LIGHT B Marks location of anchors, cables and pile cells.		<b>F Y</b>	12 4		White post on cell.	Private aid.
960	- <i>Lighted Buoy 131B</i>		<b>FI G 4s</b>			Green.	Spar; winter marker. S.L.S.D.C.
965	- <i>Lighted Buoy 132</i> (C)	44 43 06 N 75 29 06 W	<b>FI R 4s</b>			Red.	Seasonal.
970	- <i>Lighted Buoy 133</i>		<b>FI G 4s</b>			Green.	Spar; winter marker. S.L.S.D.C.
975	PRESCOTT HERITAGE HARBOUR LIGHT (C)	44 42 36 N 75 30 36 W	<b>Iso G 4s</b>	25 8		White lighthouse with green top.	Seasonal.
<b>Ogdensburg Harbor</b>							
985	- <i>East Entrance</i> <i>Lighted Buoy 2</i>	44 42 33 N 75 29 15 W	<b>FI R 4s</b>		4	Red.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
990	- <i>East Entrance Lighted</i> <i>Buoy 4</i>	44 42 22 N 75 29 22 W	<b>FI R 4s</b>		4	Red.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
995	- <i>West Entrance</i> <i>Lighted Buoy 2</i>	44 42 06 N 75 30 22 W	<b>FI R 4s</b>		4	Red.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1000	- West Entrance Buoy 3	44 41 58 N 75 30 04 W				Green can.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1005	- West Entrance Buoy 4	44 41 54 N 75 30 11 W				Red nun.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1010	- <i>West Entrance</i> <i>Lighted Buoy 5</i>	44 41 58 N 75 29 57 W	<b>FI G 4s</b>		4	Green.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
<b>St. Lawrence Seaway</b>							
1020	Catamaran Shoal Buoy 135 Marks northwest side of shoal.					Green can.	S.L.S.D.C.
1025	<i>North McNair Shoal</i> <i>Lighted Buoy 136</i> (C)		<b>FI R 4s</b>			Red.	Seasonal.
1035	<i>South McNair Shoal</i> <i>Lighted Buoy 137A</i> (C)	44 35 36 N 75 40 00 W	<b>FI G 4s</b>			Green.	Seasonal.
1040	<b>Brockville Breakwater Light</b> (C)		<b>FI R 4s</b>	32 10		White circular tower with red top. 21	Seasonal.
1045	SKELETON ISLAND LIGHT 138 (C)		<b>FI R 4s</b>	37 11		White circular tower with red top. 20	Seasonal.

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<b>ST. LAWRENCE RIVER</b>							
1050	<i>Refugee Island Shoal Lighted Buoy 139</i> Marks east side of shoal. (C)		<b>FI G 4s</b>			Green.	Seasonal.
1065	McCOY ISLAND LIGHT 141 (C)		<b>Q G</b>	30 9		White circular tower with black top. 20	Seasonal.
1070	ROYAL ISLAND LIGHT 142 Marks shoal. (C)		<b>FI R 4s</b>	31 9		White circular tower with red top. 20	Seasonal.
1075	- LIGHT 143 (C)	44 34 00 N 75 42 24 W	<b>FI G 4s</b>	26 8		White circular tower with black top. 20	Seasonal.
1080	- <i>Lighted Buoy 143A</i> Marks north side of shoal. (C)	44 33 42 N 75 42 42 W	<b>FI G 4s</b>			Green.	Seasonal.
1085	- LIGHT 144 Marks McDonald Point Shoal. (C)		<b>Q R</b>	28 9		White circular tower with red top. 12	Seasonal.
1090	STOVIN ISLAND LIGHT 145 (C)	44 33 36 N 75 42 54 W	<b>FI G 4s</b>	34 10		White circular tower with green top. 20	Seasonal.
1095	NEEDLES EYE ISLAND LIGHT 146 (C)		<b>FI R 4s</b>	34 10		White circular tower with red top. 20	Seasonal.
1100	<i>DeRottenburg Lighted Buoy 145A</i> (C)		<b>FI G 4s</b>			Green.	Seasonal.
1105	- <i>Lighted Buoy 146A</i> (C)		<b>FI R 4s</b>			Red.	
1110	DeWATTEVILLE ISLAND RANGE FRONT LIGHT (C)	44 32 54 N 75 44 00 W	<b>F W</b>	30 9		Orange triangular daymark with black stripes on white circular tower with red top. 20	Seasonal.
1115	DeWATTEVILLE ISLAND RANGE REAR LIGHT 1,140 feet, 036.9° from front light. (C)		<b>F W</b>	69 21		Orange inverted triangular daymark with black stripes on red skeleton tower. 35	Visible on range line only. Seasonal.
1120	- LIGHT 147 (C)	44 32 30 N 75 44 12 W	<b>FI G 4s</b>	30 9		White circular tower with green top. 12	Seasonal.
1125	- <i>Lighted Buoy 147A</i> (C)	44 32 12 N 75 44 36 W	<b>FI G 4s</b>			Green.	Seasonal.
1130	- LIGHT 150 (C)	44 31 48 N 75 45 18 W	<b>FI R 4s</b>	28 9		White cylindrical tower with red top. 12	Seasonal.
1135	<i>Cole Shoal Lighted Buoy 150A</i> Marks south side of Cole Shoal. (C)		<b>FI R 4s</b>			Red.	Seasonal.
1140	- LIGHT 151 (C)	44 31 24 N 75 45 24 W	<b>FI G 4s</b>	30 9		White circular tower with green top. 15	Seasonal.

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<b>ST. LAWRENCE RIVER</b>							
1145	- Lighted Buoy 152 (C)	44 31 06 N 75 46 00 W	<b>FI R</b> 4s			Red.	Seasonal.
1150	BROCKVILLE CROSSOVER RANGE FRONT LIGHT (C)	44 31 36 N 75 45 54 W	<b>Iso G</b> 2s	32 10		Orange triangular daymark with black stripe on white circular tower. 30	Seasonal.
1155	BROCKVILLE CROSSOVER RANGE REAR LIGHT 2,153 feet, 013.5° from front light. (C)		<b>F G</b>	61 19		Orange inverted triangular daymark with black stripe on white skeleton tower. 36	Seasonal.
1170	- Lighted Buoy 153	44 30 36 N 75 46 12 W	<b>Q G</b>			Green.	Spar; winter marker. S.L.S.D.C. RACON: M(- -).
1175	- Buoy 154 Marks shoal.					Red nun.	S.L.S.D.C.
1180	- LIGHT 156 Marks Bay State Shoal, about 60 feet outside channel limit.		<b>FI R</b> 2.5s	30 9		TR on tower on cell.	S.L.S.D.C.
1185	- Lighted Buoy 157	44 30 18 N 75 46 18 W	<b>FI G</b> 4s			Green.	Winter marker. S.L.S.D.C.
1190	- Lighted Buoy 159	44 29 48 N 75 46 24 W	<b>FI G</b> 4s			Green.	Winter marker. S.L.S.D.C.
1195	- LIGHT 160 Marks Cross Over Island Shoal, about 105 feet outside channel limit.	44 29 48 N 75 46 36 W	<b>FI R</b> 4s	28 9		TR on tower on cell.	S.L.S.D.C.
1200	- Lighted Buoy 162		<b>Q R</b>			Red.	Spar; winter marker. S.L.S.D.C.
1205	- LIGHT 163 About 140 feet outside channel limit.		<b>FI G</b> 2.5s	28 9		SG on pile.	S.L.S.D.C.
1210	CHIPPEWA POINT DIRECTIONAL LIGHT		<b>F W</b> (R & G sectors)	28 9		White post.	White from 193° to 195°, red from 186° to 193°, green from 195° to 202°. S.L.S.D.C.
1215	- Lighted Buoy 163A		<b>FI G</b> 4s			Green.	S.L.S.D.C.
1220	- Lighted Buoy 164		<b>FI R</b> 4s			Red.	Spar; winter marker. S.L.S.D.C.
<b>WHALEBACK SHOAL TO/Á SUMMERLAND GROUP (Chart 1436)(C)</b>							
<b>St. Lawrence Seaway</b>							
1225	- LIGHT 165		<b>FI G</b> 4s	23 7		SG on tower on cell.	S.L.S.D.C.
1230	CHIMNEY ISLAND LIGHT (C)	44 28 00 N 75 50 00 W	<b>FI R</b> 4s	18 5		White circular tower with red top. 16	Seasonal.
1235	HAFFIE SHOAL LIGHT (C)	44 27 30 N 75 50 42 W	<b>FI R</b> 4s	34 10		White circular tower with red top. 24	Seasonal.
1240	- Lighted Buoy 166		<b>FI R</b> 4s			Red.	S.L.S.D.C.
1245	- Lighted Buoy 167		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
1250	- LIGHT 168 About 205 feet outside channel limit.	44 27 00 N 75 48 48 W	<b>FI R</b> 4s	23 7		TR on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
1255	- <i>Lighted Buoy 170</i>		<b>FI R</b> 4s			Red.	S.L.S.D.C.
1260	- <i>Lighted Buoy 172</i> Marks shoal. (C)		<b>FI R</b> 4s			Red.	Seasonal.
1265	<i>Haskell Shoal Lighted Buoy 173</i> Marks north side of shoal. (C)	44 26 12 N 75 49 24 W	<b>Q G</b>			Green.	Spar; winter marker. Seasonal.
1270	- <i>Lighted Buoy 176</i>		<b>FI R</b> 4s			Red.	Winter marker. S.L.S.D.C.
1275	- <i>Lighted Buoy 177</i>		<b>FI G</b> 4s			Green.	S.L.S.D.C.
1280	- LIGHT 178 About 175 feet outside channel limit.		<b>FI R</b> 4s	28 9		TR on pile.	S.L.S.D.C.
1285	- LIGHT 179		<b>FI G</b> 2.5s	28 9		SG on pile.	S.L.S.D.C.
1290	- LIGHT 180 Marks Ironside Shoal.	44 23 48 N 75 51 24 W	<b>Q R</b>	28 9		TR on tower on cell.	S.L.S.D.C.
1295	- <i>Lighted Buoy 181</i>		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
1300	- <i>Lighted Buoy 181A</i>		<b>FI G</b> 4s			Green.	S.L.S.D.C.
1305	- LIGHT 182 Marks Whiskey Island Shoal, about 95 feet outside channel limit.		<b>FI R</b> 4s	28 9		TR on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
1310	- LIGHT 183 Marks Excelsior Shoal, about 180 feet outside channel limit.	44 22 24 N 75 53 06 W	<b>FI G</b> 4s	34 10		SG on tower on concrete base.	S.L.S.D.C.
1315	- <i>Lighted Buoy 185</i>		<b>FI G</b> 4s			Green.	S.L.S.D.C.
1320	- LIGHT 186 About 320 feet outside channel limit.		<b>FI R</b> 4s	28 9		TR on pile.	S.L.S.D.C.
<b>SUMMERLAND GROUP TO/Á GRINDSTONE ISLAND (Chart 1437)(C)</b>							
<b>St. Lawrence Seaway</b>							
1325	- LIGHT 187		<b>FI G</b> 4s	28 9		SG on pile.	S.L.S.D.C.
1330	Hammond Shoal Buoy Marks south side of shoal.	44 20 45 N 75 54 42 W				Green and red bands; can.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1335	- LIGHT 189 About 290 feet outside channel limit.		<b>FI G</b> 4s	30 9		SG on conical tower.	S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
1340	- LIGHT 191 Marks southwest side of Sunken Rock Shoal, about 70 feet outside channel limits.		<b>FI G</b> 2.5s	28 9		SG on tower on concrete base.	S.L.S.D.C.
1345	- LIGHT 192 Marks Frontenac Shoal, about 25 feet outside channel limit.		<b>FI R</b> 4s	28 9		TR on pile.	S.L.S.D.C.
1350	Broadway Shoal Buoy Marks north side of shoal.	44 20 22 N 75 55 16 W				Green and red bands; can.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1353	ALEXANDRIA BAY HARBOR LIGHT	44 20 06 N 75 55 18 W	<b>FI Y</b> 2s	3 1		On floating dock.	Maintained from Apr. 1 to Dec. 1. Private aid.
1355	Alexandria Bay Shoal Daybeacon					Cylindrical daymark with red and black bands on concrete drum.	Private aid.
1360	- LIGHT 194 Marks Pullman Shoal, about 100 feet outside channel limit.	44 20 06 N 75 55 48 W	<b>FI R</b> 4s	34 10		TR on tower on concrete base.	S.L.S.D.C.
1365	- LIGHT 195 About 12 feet outside channel limit.		<b>FI G</b> 4s	23 7		SG on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
1370	- LIGHT 197		<b>FI G</b> 4s	28 9		SG on pile.	S.L.S.D.C.
1375	- LIGHT 198		<b>FI R</b> 4s	23 7		TR on tower on concrete base.	S.L.S.D.C.
1380	- LIGHT 199 Marks Comfort Island Shoal.		<b>FI G</b> 2.5s	28 9		SG on tower on concrete base.	RACON: M ( -- ). S.L.S.D.C.
1385	Keewaydin State Park Breakwater Light	45 19 22 N 75 56 11 W	<b>FI G</b> 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 19 21 N 75 56 14 W	<b>FI R</b> 4s		5	Red nun.	Maintained May 1 to Nov. 1. Private aid.
1390	- LIGHT 200 About 90 feet outside channel limit.		<b>Q R</b>	28 9		TR on pile.	S.L.S.D.C.
1395	- <i>Lighted Buoy 202</i>	44 19 24 N 75 56 36 W	<b>Iso R</b> 3s			Red.	S.L.S.D.C.
1400	POINT VIVIAN LEADING LIGHT		<b>F W</b> ( <b>R &amp; G</b> 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.
1405	- LIGHT 203 About 40 feet outside channel limit.		<b>FI G</b> 4s	28 9		SG on pile.	S.L.S.D.C.
1410	- LIGHT 204 About 30 feet outside channel limit.		<b>FI R</b> 4s	28 9		TR on pile.	S.L.S.D.C.
1415	- <i>Lighted Buoy 205</i>		<b>FI G</b> 4s			Green.	S.L.S.D.C.

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<b>ST. LAWRENCE RIVER</b>							
1420	- LIGHT 206 About 25 feet outside channel limit.	44 18 36 N 75 58 12 W	<b>Iso R 2s</b>	28 9		TR on pile.	S.L.S.D.C.
1425	- LIGHT 207 About 15 feet outside channel limit.		<b>FI G 4s</b>	28 9		SG on pile.	S.L.S.D.C.
1430	- LIGHT 209 About 40 feet outside channel limit.	44 17 54 N 75 59 12 W	<b>FI G 2.5s</b>	31 9		SG on tower on cell.	S.L.S.D.C.
1435	- <i>Lighted Buoy 208</i>		<b>FI R 4s</b>			Red.	S.L.S.D.C.
1440	- <i>Lighted Buoy 209A</i>		<b>FI G 4s</b>			Green.	S.L.S.D.C.
1445	- LIGHT 210 About 50 feet outside channel limit.	44 17 42 N 75 59 54 W	<b>FI R 4s</b>	28 9		TR on pile.	S.L.S.D.C.
1450	- <i>Lighted Buoy 211</i>		<b>FI G 4s</b>			Green.	Spar; winter marker. S.L.S.D.C.
1455	- <i>Lighted Buoy 212</i>		<b>FI R 4s</b>			Red.	S.L.S.D.C.
1460	- LIGHT 213 40 feet outside channel limit.	44 16 54 N 76 00 54 W	<b>FI G 2.5s</b>	31 9		SG on tower on cell.	S.L.S.D.C.
1465	FISHER LANDING LIGHT	44 16 43 N 76 00 38 W	<b>FI G 4s</b>	11 3	4	SG on column on concrete base.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1470	- LIGHT 214 Marks east side of Granite State Shoal, about 51 feet outside channel limit.		<b>FI R 2.5s</b>	28 9		TR on tower.	RACON: M(- -). S.L.S.D.C.
1475	- <i>Lighted Buoy 215</i>		<b>Q G</b>			Green.	Spar; winter maker. S.L.S.D.C.
1480	- <i>Lighted Buoy 216</i>		<b>FI R 4s</b>			Red.	Winter marker. S.L.S.D.C.
1485	- Buoy 216A					Red nun.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
1490	- <i>Lighted Buoy 217</i>		<b>FI G 4s</b>			Green.	Spar; winter marker. S.L.S.D.C.
1495	- <i>Lighted Buoy 217A</i>	44 15 36 N 76 03 54 W	<b>Q G</b>			Green.	S.L.S.D.C.
1500	- <i>Lighted Buoy 218</i>		<b>FI R 4s</b>			Red.	Winter marker. S.L.S.D.C.
1505	- LIGHT 219 About 68 feet outside channel limit.		<b>FI G 4s</b>	28 9		SG on pile.	S.L.S.D.C.
1510	- <i>Lighted Buoy 221</i> Marks west side of shoal.		<b>FI G 4s</b>			Green.	S.L.S.D.C.
1515	- LIGHT 222 Marks southeast side of Chapman Shoal, about 50 feet outside channel limit.		<b>FI R 2.5s</b>	28 9		TR on tower.	S.L.S.D.C. RACON: C(- • - •).

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. LAWRENCE RIVER</b>							
<b>Clayton Marina</b>							
<i>Buoys maintained from May 1 to Nov. 1.</i>							
1517	- Buoy 2					Red nun.	Private aid.
1518	- Buoy 4					Red nun.	Private aid.
1519	- Buoy 6					Red nun.	Private aid.
1519.5	- Buoy 8					Red nun.	Private aid.
<b>St. Lawrence Seaway</b>							
1520	Clayton Shoal Lighted Buoy 1	44 14 44 N 76 05 02 W	FIG 4s		4	Green.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1525	- Lighted Buoy 224		FIR 4s			Red.	S.L.S.D.C.
1527	CLAYTON FLOATING DOCK LIGHT	44 14 36 N 76 05 18 W	FI W 4s	7 2		Marks NE corner of dock.	Maintained from Apr. 1 to Dec. 31. Private aid.
1530	MARY STREET DOCK LIGHT	14 14 12 N 76 05 30 W	FG	12 4		On steel post.	Private aid.
1545	- Lighted Buoy 225 Marks shoal.		FIG 4s			Green.	Spar; winter marker. S.L.S.D.C.
1550	- LIGHT 226 Marks Calumet Shoal, about 188 feet outside channel limit.		FIR 2.5s	23 7		TR on pile.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C.
1555	- Lighted Buoy 226A		FIR 4s			Red.	Winter marker. S.L.S.D.C.
1560	- LIGHT 227 About 322 feet outside channel limit.	44 14 24 N 76 06 30 W	FG	23 7		SG on tower on concrete base.	S.L.S.D.C.
<b>GRINDSTONE ISLAND TO/Á CARLETON ISLAND (Chart 1438)(C)</b>							
<b>St. Lawrence Seaway</b>							
1565	- Buoy 228 Marks shoal.					Red nun.	S.L.S.D.C.
1570	- LIGHT 229	44 13 12 N 76 09 36 W	FIG 2.5s	28 9		SG on pile.	S.L.S.D.C.
<b>Wolfe Island Cut</b>							
1575	- Lighted Buoy PV2 (C)	44 14 00 N 76 10 30 W	QR			Red.	Seasonal.
1580	- Lighted Buoy PV1 (C)		FIG 4s			Green.	Seasonal.
1595	- North Lighted Buoy PV6 (C)		FIR 4s			Red.	Seasonal.
<b>St. Lawrence Seaway</b>							
1605	Wolfe Island Light (C)	44 14 18 N 76 11 00 W	FW	37 11	12	White pyramid tower. 21	Seasonal.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. LAWRENCE RIVER</b>							
1610	- LIGHT 231	44 12 18 N 76 12 24 W	<b>FI G</b> 4s	33 <b>10</b>		SG on tower on concrete base.	S.L.S.D.C.
1615	- <i>Lighted Buoy 233</i> Marks north side of shoal.		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
1625	- <i>Lighted Buoy 234</i>		<b>FI R</b> 4s			Red.	S.L.S.D.C.
1630	- <i>Lighted Buoy 235</i>		<b>Q G</b>			Green.	Spar; winter marker. S.L.S.D.C.
1635	BAYFIELD ISLAND LIGHT (C)	44 11 42 N 76 19 42 W	<b>RWG</b> <b>(Directional)</b>	38 <b>12</b>		White square skeleton tower with orange triangular daymark. 33	F R 260.5° to 262°, AI WR 262° to 262.25°, W phase increasing with bearing, F W 262.25° to 263.75°, AI WG 263.75° to 264°, G phase increasing with bearing, F G 264° to 265.5°. Seasonal.
1640	- <i>Lighted Buoy 237</i>		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
1645	- <i>Lighted Buoy 236</i>		<b>FI R</b> 4s			Red.	S.L.S.D.C.
1650	- <i>Lighted Buoy 238</i>		<b>FI R</b> 4s			Red.	Spar; winter marker. S.L.S.D.C.
1655	IRVINE POINT RANGE FRONT LIGHT (C)	44 12 18 N 76 18 36 W	<b>F R</b>	35 <b>11</b>		Orange rectangular daymark with black vertical stripe on white skeleton tower. 25	Visible on range line only. Seasonal.
1660	IRVINE POINT RANGE REAR LIGHT 2,560 feet, 013.3° from front light. (C)		<b>F R</b>	70 <b>21</b>		Orange rectangular daymark with black vertical stripe on white skeleton tower. 51	Visible on range line only. Seasonal.
1665	- <i>Lighted Buoy 239</i>		<b>FI G</b> 4s			Green.	Spar; winter marker. S.L.S.D.C.
1670	CARLETON ISLAND LEADING LIGHT	44 10 12 N 76 18 42 W	<b>F G</b>	29 <b>9</b>		Orange triangular daymark with black stripes on square tower.	Visible on bearing 033° only. S.L.S.D.C.
1675	- <i>Lighted Buoy 240</i>		<b>Q R</b>			Red.	Spar; winter marker. S.L.S.D.C.
<b>CARLETON ISLAND TO/Á CHARITY SHOAL (Chart 1439)(C)</b>							
<b>St. Lawrence Seaway</b>							
1680	- <i>Lighted Buoy 241</i>		<b>FI G</b> 4s			Green.	S.L.S.D.C.
1685	Carleton Island South Channel Buoy 1	44 10 00 N 76 17 49 W				Green can.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1690	Carleton Island South Channel Buoy 3	44 09 54 N 76 18 19 W				Green can.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.
1695	Carleton Island South Channel Buoy 5	44 09 46 N 76 18 48 W				Green can.	Maintained from Apr. 1 to Dec. 15. S.L.S.D.C. Aid maintained by SLSDC.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. LAWRENCE RIVER</b>							
1700	CAPE VINCENT BREAKWATER EAST END LIGHT		<b>Q W</b>	20 <b>6</b>		SG on post.	S.L.S.D.C.
1705	CAPE VINCENT BREAKWATER WEST END LIGHT		<b>F R</b>	20 <b>6</b>		TR on post.	Higher intensity on bearing 068° and 193°. S.L.S.D.C.
1710	- Lighted Buoy 242		<b>F I R</b> 4s			Red.	S.L.S.D.C.
1720	- Lighted Buoy 243	44 07 48 N 76 20 42 W	<b>F I G</b> 4s			Green.	S.L.S.D.C.
1725	- Lighted Buoy 244 Marks shoal.		<b>F I R</b> 4s			Red.	S.L.S.D.C.
1735	<b>Tibbetts Point Light</b>	44 06 00 N 76 22 12 W	<b>Oc W</b> 10s	69 <b>21</b>	16	White conical tower. 59	Standby light of reduced intensity shows Oc R 4s.
1745	<i>Tibbetts Point Traffic Lighted Buoy</i>	44 06 00 N 76 24 24 W	<b>Mo (A) W</b>			Red and white stripes.	S.L.S.D.C.
1750	- Lighted Buoy 245		<b>F I G</b> 4s			Green.	S.L.S.D.C.

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# Section 2

## Lake Ontario

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
<b>CLAYTON TO FALSE DUCK ISLAND (Chart 14802)</b>							
1755	<i>Allan Otty Shoal Lighted Buoy 2</i> Marks southeast side of shoal.	44 03 48 N 76 27 00 W	<b>FI R</b> 4s			Red.	S.L.S.D.C.
1760	EAST CHARITY SHOAL LIGHT Marks east side of Charity Shoals Group.	44 02 12 N 76 28 54 W	<b>FI W</b> 4s	52 16	9	Tower.	
1765	<i>East Charity Shoal Traffic Lighted Buoy</i>	44 01 18 N 76 27 42 W	<b>Mo (A) W</b>			Red and white stripes.	S.L.S.D.C.
1770	<i>Stony Island Lighted Buoy 2</i>		<b>FI R</b> 4s		4	Red.	Maintained from May 7 to Nov. 14.
1775	<i>Point Peninsula Lighted Buoy 3</i>		<b>FI G</b> 6s		4	Green.	Maintained from May 7 to Nov. 14.
<b>CHAUMONT, HENDERSON AND BLACK RIVER BAYS (Chart 14811)</b>							
<b>Chaumont Bay</b>							
1780	CHERRY ISLAND LIGHT	44 00 54 N 76 11 12 W	<b>FI W</b> 4s	43 13	8	NR on white skeleton tower with enclosed base. 38	
1785	<i>Johnson Shoal Lighted Buoy 1</i>		<b>FI G</b> 4s		3	Green.	Maintained from May 14 to Nov. 1.
1790	<i>- Lighted Junction Buoy</i>		<b>FI (2+1) G</b> 6s		4	Green and red bands.	Maintained from May 14 to Nov. 1.
1795	Chaumont Harbor Daybeacon 2 Marks rock.					TR on pile on concrete base.	
1800	CHAUMONT HARBOR LIGHT		<b>F G</b>	30 9	6	SG on skeleton tower with enclosed base. 27	
1805	CRESCENT MARINE PIER LIGHT		<b>F R</b>	9 3		Post.	Maintained from May 1 to Dec. 1. Private aid.
<b>Chaumont Shoal</b>							
<i>Buoys maintained from Apr. 30 to Oct. 30. Due to shifting sandbar, buoys may be relocated without prior notice.</i>							
1810	- Buoy A	43 03 54 N 76 09 06 W				White can with orange bands and diamond worded DANGER.	Private aid.
1815	- Buoy B					White can with orange bands and diamond worded DANGER.	Private aid.
1820	- Buoy C					White can with orange bands and diamond worded DANGER.	Private aid.
1825	<i>- Lighted Buoy D</i>	43 03 54 N 76 08 48 W	<b>FI W</b> 2s			White with orange bands and diamond worded DANGER.	Private aid.
1830	- Buoy E					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
<b>LAKE ONTARIO</b>							
1835	- Buoy F					White can with orange bands and diamond worded DANGER.	Private aid.
1840	- Buoy G					White can with orange bands and diamond worded DANGER.	Private aid.
1845	- Buoy H					White can with orange bands and diamond worded DANGER.	Private aid.
<b>Black River Bay</b>							
1850	SACKETS HARBOR LIGHT	43 56 36 N 76 08 42 W	<b>FI W</b> 2.5s	57 17	4	NB on gray skeleton tower.	Light obscured by trees 092° to 157° and 242° to 267°.
1852	<i>Horse Island Lighted Buoy 2</i>	43 56 31 N 76 09 12 W	<b>FIR</b> 4s		3	Red.	Maintained from May 14 to Nov. 01.
<b>Navy Point</b>							
1855	- LIGHT		<b>FIR</b> 4s	27 8	4	TR on post.	
<i>Aids maintained from Jun. 1 to Nov. 1.</i>							
1860	- MARINE DOCK LIGHT 4	43 57 00 N 76 07 18 W	<b>FR</b>	15 5		TR on post.	Private aid.
1865	- <i>Marina Anchorage Lighted Buoy A</i>		<b>QY</b>			Yellow.	Private aid.
1870	- <i>Marina Anchorage Lighted Buoy B</i>		<b>QY</b>			Yellow.	Private aid.
1875	- <i>Marina Anchorage Lighted Buoy C</i>		<b>QY</b>			Yellow.	Private aid.
1880	- <i>Marina Anchorage Lighted Buoy D</i>		<b>QY</b>			Yellow.	Private aid.
<b>Black River Bay</b>							
<i>Aids maintained from Apr. 30 to Sep. 30 unless otherwise noted.</i>							
1882	MADISON BARRACKS MARINA ENTRANCE LIGHT	43 57 18 N 76 06 24 W	<b>FR</b>	17 5		TR on post.	Maintained from May 1 to Oct. 1. Private aid.
1885	<i>Black River Entrance Lighted Buoy 1</i>	43 59 12 N 76 04 42 W	<b>FIG</b> 4s			Green.	Private aid.
1890	<i>Black River Entrance Lighted Buoy 2</i>	43 59 06 N 76 04 36 W	<b>FIR</b> 4s			Red.	Private aid.
1895	- Buoy 3					Green can.	Private aid.
1900	- Buoy 4					Red spar.	Private aid.
1905	- Buoy 5					Green can.	Private aid.
1910	- Buoy 6					Red spar.	Private aid.
1915	- Buoy 7					Green can.	Private aid.
1920	- Buoy 8					Red spar.	Private aid.
1925	- Buoy 9					Green can.	Private aid.
1930	- Buoy 10					Red spar.	Private aid.
1935	- Buoy 11					Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
<b>Henderson Bay</b>							
1940	<i>Lime Barrel Shoal Lighted Buoy 1</i>		<b>FI G 4s</b>		4	Green.	Maintained from May 7 to Nov. 14.
1943	- Buoy 1	43 54 30 N 76 08 36 W				Green.	Maintained from May 14 to Nov. 1.
1945	WESTCOTT BEACH STATE PARK LIGHT 1	43 54 06 N 76 07 42 W	<b>FI G 3s</b>	19 6		SG on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
1950	WESTCOTT BEACH STATE PARK LIGHT 2		<b>FI R 3s</b>	19 6		TR on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
<b>Henderson Harbor Special Anchorage</b>							
<i>Maintained from May 1 to Oct. 30.</i>							
1955	- LIGHT A	43 51 06 N 76 12 12 W	<b>FI Y 4s</b>	5 2		On yellow post.	Private aid.
1960	- Lighted Buoy B		<b>FI Y 4s</b>			Yellow.	Private aid.
1965	- Lighted Buoy C		<b>FI Y 4s</b>			Yellow.	Private aid.
1970	- Lighted Buoy D		<b>FI Y 4s</b>			Yellow.	Private aid.
1975	- Lighted Buoy E		<b>FI Y 4s</b>			Yellow.	Private aid.
1980	- Lighted Buoy F		<b>FI Y 4s</b>			Yellow.	Private aid.
1985	- LIGHT G	43 51 36 N 76 12 00 W	<b>FI Y 4s</b>	5 2		On yellow post.	Private aid.
1990	- Lighted Buoy H		<b>FI Y 4s</b>			Yellow.	Private aid.
<b>CLAYTON TO FALSE DUCK ISLAND (Chart 14802)</b>							
<b>Henderson Bay</b>							
1995	<i>Galloo Island Shoal Lighted Buoy 3</i> Marks southwest side of shoal.	43 53 42 N 76 28 36 W	<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 14 to May 7.
2000	<b>Galloo Island Light</b>	43 53 18 N 76 26 42 W	<b>FI W 6s</b>	58 18	11	Conical tower with covered way to dwelling. 55	
2005	Calf Island Spit Buoy 5					Green can.	
2010	STONY POINT LIGHT	43 50 18 N 76 17 54 W	<b>Iso R 6s</b>	40 12	6	TR on skeleton tower. 30	
2015	PORT ONTARIO LIGHT	43 34 24 N 76 12 06 W	<b>FI W 2s</b>	50 15		Cupola on three-story gray house.	Maintained from Mar. 1 to Dec. 1. Private aid.
<b>Stony Creek Bay</b>							
<i>Buoys maintained from Apr. 30 to Sep. 30.</i>							
2019	- Lighted Channel Buoy 1	43 48 30 N 76 14 54 W	<b>FI G 2s</b>			Green.	Private aid.
2019.1	- Lighted Channel Buoy 2		<b>FI R 2s</b>			Red.	Private aid.
2019.2	- Buoy 3					Green can.	Private aid.
2019.3	- Buoy 4					Red nun.	Private aid.



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<b>LAKE ONTARIO</b>							
2020	Drowned Island Buoy 7					Green can.	
<b>Sandy Pond Entrance</b>							
<i>Buoys maintained from Apr. 30 to Sep. 30.</i>							
2024	- Lighted Buoy 1	43 39 30 N 76 12 12 W	<b>FI G</b> 4s			Green.	Private aid.
2024.1	- Lighted Buoy 2		<b>FI R</b> 4s			Red.	Private aid.
2024.2	- Lighted Buoy 3		<b>FI G</b> 4s			Green.	Private aid.
2024.3	- Lighted Buoy 4		<b>FI R</b> 4s			Red.	Private aid.
2024.4	- Buoy 5					Green can.	Private aid.
2024.5	- Buoy 6					Red nun.	Private aid.
2024.6	- Buoy 7					Green can.	Private aid.
2024.7	- Buoy 8					Red nun.	Private aid.
2024.8	- Buoy 9					Green can.	Private aid.
2024.9	- Buoy 10					Red nun.	Private aid.
<b>SOUTH OF STONY POINT TO PORT BAY (Chart 14803)</b>							
<b>Port Ontario</b>							
2025	- LIGHT 2	43 34 42 N 76 12 18 W	<b>FI R</b> 2.5s	36 11	3	Red and white cylindrical tower on jetty.	
2030	- LIGHT 3		<b>FI G</b> 2.5s	34 10	3	SG on pile on jetty.	
2035	- Buoy 4					Red nun.	Maintained from May 14 to Nov. 1.
2040	- Buoy 6					Red nun.	Maintained from May 14 to Nov. 1.
2045	MEXICO POINT LIGHT	43 31 24 N 76 15 18 W	<b>FI W</b> 5s	17 5		On aluminum post.	Maintained from Apr. 15 to Nov. 15. Private aid.
2050	MEXICO POINT BOAT LAUNCH LIGHT 1	43 31 30 N 76 15 24 W	<b>FI G</b> 4s	10 3		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
2055	MEXICO POINT BOAT LAUNCH LIGHT 2	43 31 36 N 76 15 30 W	<b>FI R</b> 4s	10 3		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
2056	LITTLE SALMON RIVER 2	43 31 45 N 76 15 41 W					Maintained from May 14 to Nov 01. Private aid.
2056.1	LITTLE SALMON RIVER 3	43 31 43 N 76 15 40 W					Maintained from May 14 to Nov 01. Private aid.
2056.2	LITTLE SALMON RIVER 4	43 31 40 N 76 15 36 W					Maintained from May 14 to Nov 01. Private aid.
2056.3	LITTLE SALMON RIVER 5	43 31 39 N 76 15 33 W					Maintained from May 14 to Nov 01. Private aid.
2056.4	LITTLE SALMON RIVER 6	43 31 32 N 76 15 37 W					Maintained from May 14 to Nov 01. Private aid.
2056.5	LITTLE SALMON RIVER 7	43 31 32 N 76 15 31 W					Maintained from May 14 to Nov 01. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
2056.6	LITTLE SALMON RIVER 8	43 31 25 N 76 15 34 W					Maintained from May 14 to Nov 01. Private aid.
2056.7	LITTLE SALMON RIVER 9	43 31 27 N 76 15 35 W					Maintained from May 14 to Nov 01. Private aid.
2056.8	LITTLE SALMON RIVER 10	43 31 42 N 76 15 18 W					Maintained from May 14 to Nov 01. Private aid.
2056.9	LITTLE SALMON RIVER 11	43 31 43 N 76 15 14 W					Maintained from May 14 to Nov 01. Private aid.
2057	LITTLE SALMON RIVER 12	43 31 35 N 76 15 08 W					Maintained from May 14 to Nov 01. Private aid.
2057.1	LITTLE SALMON RIVER 13	43 31 35 N 76 15 06 W					Maintained from May 14 to Nov 01. Private aid.
<b>Constellation Nuclear Security Zone</b>							
2060	-No Entry Bouy A	43 31 00 N 76 25 42 W				White can with 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 N 76 25 42 W				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 20 N 76 25 27 W				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 N 76 25 12 W				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 35 N 76 24 57 W				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 38 N 76 24 39 W				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 40 N 76 24 21 W				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 42 N 76 24 03 W				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 N 76 23 45 W				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 46 N 76 23 29 W				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 N 76 23 12 W				White can with orange bands orange exclusion symbol and worded NO ENTRY.	Replace by spar from Nov. 1 to Apr 15. Private aid.
2061.1	-No Entry Buoy L	43 31 36 N 76 23 12 W				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
<b>LAKE ONTARIO</b>							
<b>OSWEGO HARBOR (Chart 14813)</b>							
<b>Oswego Harbor</b>							
2065	- DETACHED BREAKWATER WEST END LIGHT		<b>FI G</b> 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		<b>FI Y</b> 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		<b>FI G</b> 6s	43 13	6	SG on gray post.	
2080	- <b>West Pierhead Light</b>	43 28 24 N 76 31 01 W	<b>Al WR</b> 10s 0.1s W. fl 4.9s ec. 0.1s W. fl 4.9s ec.	57 17	12	White square tower on corner of square building.	Standby light Oc R 4s of reduced intensity. HORN: 1 blast ev 30s (3s bl). Operates from Apr. 1 to Oct 15.
2090	- Inner Buoy 1 On southeast point of shoal.					Green can.	
2095	- <i>Inner Lighted Buoy 2</i>		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 14 to May 21.
2097	- Inner Buoy 4					Red nun.	
2100	Oswego Harbor Canal Channel Buoy 6	43 27 36 N 76 30 38 W				Red.	Maintained from May 1 to Nov 30. Private aid.
2105	- WEST CHANNEL LIGHT 2	43 28 00 N 76 31 12 W	<b>FI R</b> 4s	36 11	4	TR on pile.	
2110	- West Channel Buoy 3					Green can.	Maintained from May 14 to Nov 1.
2115	- West Channel Buoy 5					Green can.	Maintained from May 14 to Nov 1.
2120	- West Channel Buoy 7					Green can.	Maintained from May 14 to Nov 1.
<b>SOUTH OF STONY POINT TO PORT BAY (Chart 14803)</b>							
2130	<i>Ford Shoal Lighted Buoy 1</i>		<b>FI G</b> 4s		4	Green.	Maintained from May 7 to to Nov. 14.
2135	FAIR HAVEN BREAKWATER LIGHT 2	43 21 00 N 76 42 30 W	<b>FI R</b> 4s	28 9	7	TR on post. 24	
2140	FAIR HAVEN BREAKWATER LIGHT 1		<b>FI G</b> 4s	30 9	6	SG on post.	
<b>PORT BAY TO LONG POND (Chart 14804)</b>							
<b>Port Bay</b>							
<i>Aids maintained from May 1 to Oct. 20.</i>							
2145	- <i>Entrance Lighted Buoy 1</i>	43 18 18 N 76 50 12 W	<b>Iso G</b> 2s			Green.	Private aid.
2150	- ENTRANCE LIGHT 2		<b>Q R</b>	21 6		On red pile.	Private aid.
2155	- <i>Lighted Buoy 3</i>		<b>Iso G</b> 2s			Green.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
2165	- Lighted Buoy 5		Iso G 2s			Green.	Private aid.
<b>SODUS BAY (Chart 14814)</b>							
<b>Sodus Bay</b>							
2170	Sodus Outer Light	43 16 36 N 76 58 30 W	Iso W 6s	51 16	10	Tower. 49	
2180	- EAST PIER LIGHT 1		FI G 4s	18 5	6	SG on grey post.	
2182	- Channel Lighted Buoy 4	43 16 20 N 76 58 26 W	FI R 4s		3	Red.	Maintained from May 14 to Nov. 1.
2185	- Channel Lighted Buoy 5		FI G 2.5s		3	Green.	Maintained from May 14 to Nov. 1.
2190	- LIGHT 6	43 16 12 N 76 58 24 W	FI R 4s	18 5	4	TR on white column. 10	
2200	Newark Island Lighted Buoy 2	43 15 58 N 76 57 35 W	Q W		3	White.	Maintained from May 14 to Nov. 1.
2205	Special Anchorage Buoy A					Yellow can.	Maintained from May 14 to Nov. 1.
2207	Special Anchorage Buoy B					Yellow can.	Maintained from May 14 to Nov. 1.
2209	Special Anchorage Buoy C					Yellow can.	Maintained from May 14 to Nov. 1.
2211	Special Anchorage Buoy D					Yellow can.	Maintained from May 14 to Nov. 1.
2215	DAVENPORT MARINE DOCK LIGHT	43 13 30 N 76 55 36 W	F G	10 3		On pile.	Private aid.
<b>PORT BAY TO LONG POND (Chart 14804)</b>							
<b>Pultneyville Entrance</b>							
<i>Lighted buoys maintained from Apr. 30 to Sep. 30.</i>							
2220	PULTNEYVILLE YACHT CLUB LIGHT	43 17 06 N 77 11 06 W	FI W 4s	35 11		On pile.	Private aid.
2225	PULTNEYVILLE OUTER RANGE FRONT LIGHT	43 16 54 N 77 11 00 W	F G	18 5		White diamond daymark on pile.	Private aid.
2230	PULTNEYVILLE OUTER RANGE REAR LIGHT 60 feet, 189° from front light.		F G	30 9		White diamond daymark on pile. 30	Private aid.
2235	- Lighted Buoy 1	43 17 06 N 77 10 54 W	FI G 3s			Green.	Private aid.
2240	- Lighted Buoy 2		FI R 3s			Red.	Private aid.
2245	- Lighted Buoy 3		FI G 3s			Green.	Private aid.
2250	- Lighted Buoy 4		FI R 3s			Red.	Private aid.
2255	PULTNEYVILLE INNER RANGE FRONT LIGHT	43 17 00 N 77 11 06 W	F R	11 3		White diamond shaped daymark with red border on post.	Private aid.
2260	PULTNEYVILLE INNER RANGE REAR LIGHT 225 feet, 259° from front light.		F R	20 6		White diamond shaped daymark with red border on pile.	Private aid.
2265	- Lighted Buoy 5		FI G 3s			Green.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
2270	- Lighted Buoy 6		<b>FI R 3s</b>			Red.	Private aid.
<b>R. E. Ginna Nuclear Security Zone</b>							
Buoys maintained from Apr. 15 to Nov. 15.							
2271	- No Entry Buoy A	43 16 57 N 77 18 54 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.1	- No Entry Buoy B	43 17 08 N 77 18 54 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.2	- No Entry Buoy C	43 17 18 N 77 18 54 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.3	- No Entry Buoy D	43 17 18 N 77 18 42 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.4	- No Entry Buoy E	43 17 18 N 77 18 30 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.5	- No Entry Buoy F	43 17 18 N 77 18 18 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.6	- No Entry Buoy G	43 17 08 N 77 18 18 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.7	- No Entry Buoy H	43 16 57 N 77 18 18 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
2271.8	- No Entry Buoy I	43 16 47 N 77 18 18 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
<b>Pultneyville Entrance</b>							
2275	WEBSTER PARK BREAKWATER LIGHT 1	43 15 48 N 77 27 00 W	<b>FI G 6s</b>	20 6		On post on jetty.	Maintained from May 1 to Oct. 15. Private aid.
<b>Irondequoit Bay</b>							
2280	- LIGHT 2	43 14 18 N 77 32 00 W	<b>FI R 4s</b>	16 5	5	White cylindrical tower with red band.	
2285	- LIGHT 3	43 14 12 N 77 32 00 W	<b>FI G 2.5s</b>	16 5	3	SG on post.	
2287	Irondequoit Buoy 3A	43 14 15 N 77 32 01 W				Green.	Maintained from Apr. 15 to Sep. 15.
2290	- LIGHT 4		<b>FI R 4s</b>	16 5	3	TR on pile.	
2295	- LIGHT A		<b>FI (2+1) R 6s</b>	16 5	3	JR on pile.	
2300	- LIGHT 5		<b>Q G</b>	16 5	3	SG on pile.	
2305	- LIGHT 6		<b>Q R</b>	16 5	3	TR on pile.	
2310	- LIGHT 7		<b>FI G 4s</b>	16 5	3	SG on pile.	
2315	- LIGHT 8		<b>FI R 4s</b>	16 5	3	TR on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
<b>ROCHESTER HARBOR (Chart 14815)</b>							
<b>Rochester Harbor</b>							
2320	- Light	43 15 48 N 77 36 00 W	FI W 4s	40 12	14	White cylindrical tower with red band. 31	
2330	- EAST PIER LIGHT		FI G 4s	20 6	6	On post.	
2335	Genesee River Turning Basin Buoy 2 Marks south side of shoal.	43 14 02 N 77 37 05 W				Red nun.	
2337	<i>Genesee River Lighted Buoy WR2</i>	43 14 20 N 77 36 51 W	Q R		3		Maintained from May 7 to Nov. 7.
2340	BRADDOCK BAY CHANNEL LIGHT 1	43 18 23 N 77 42 55 W	FI G 4s			SG on post.	Maintained from Apr. 15 to Sep. 15. Private aid.
2345	BRADDOCK BAY CHANNEL LIGHT 2	43 18 24 N 77 42 30 W	FI R 4s			TR on post.	Maintained from Apr. 15 to Sep. 15. Private aid.
<b>LONG POND TO THIRTYMILE POINT (Chart 14805)</b>							
<b>Braddock Bay</b>							
2350	<b>Braddock Point Light</b>	43 20 30 N 77 45 30 W	Iso W 6s	55 17	15	Brown circular tower.	
2355	<i>Wautoma Shoal Lighted Buoy 1</i>	43 21 18 N 77 48 00 W	FI G 4s		4	Green.	Maintained from May 7 to Nov. 14.
2356	BROCKPORT HARBOR LIGHT		Q W	8 2		On post.	Maintained from Jun. 1 to Oct. 1. Private aid.
<b>Eagle Creek Marina</b>							
2360	- ENTRANCE LIGHT 1	43 22 00 N 78 01 36 W	Iso G 2s	10 3		SG on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
2361	- ENTRANCE LIGHT 2		Iso R 2s	10 3		TR on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
2362	- ENTRANCE LIGHT 3		Iso G 2s	10 3		SG on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
2363	- ENTRANCE LIGHT 4		Iso R 2s	10 3		TR on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
<b>Oak Orchard</b>							
2365	- BREAKWATER LIGHT B		FI W 6s	30 9	8	NR on post.	
2370	- BREAKWATER LIGHT A		Q W	25 8	3	NR on post.	
2375	- BREAKWATER LIGHT C		Q W	25 8	3	NR on post.	
2380	- JETTY LIGHT 3		FI G 4s	25 8	4	SG on post.	
2390	- JETTY LIGHT 4		FI 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
<b>LAKE ONTARIO</b>							
<b>Golden State Park Entrance</b>							
<i>Aids maintained from Apr. 15 to Nov. 15.</i>							
2393	- ENTRANCE LIGHT 3	43 22 18 N 78 28 42 W	<b>Q G</b>	30 9		SG on pole.	Private aid.
2395	THIRTYMILE POINT LIGHT	43 22 30 N 78 29 11 W	<b>FI W</b> 10s	60 18		Square tower on northeast corner of two-story house.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>THIRTYMILE POINT TO PORT DALHOUSIE (Chart 14806)</b>							
<b>Wilson Harbor</b>							
2400	- OLCOTT LIGHT	43 20 24 N 78 43 12 W	<b>FI R</b> 2.5s	29 9	6	TR on post.	
2405	- PIERHEAD LIGHT 2	43 19 11 N 78 50 13 W	<b>FI R</b> 4s	27 8	7	TR on post.	
2410	- Buoy 4					Red nun.	Maintained from May 1 to Nov. 1.
2415	- Buoy 3					Green can.	Maintained from May 1 to Nov. 1.
2420	- Daybeacon 6					TR on pile.	
2425	- Daybeacon 7					SG on pile.	
2430	- Daybeacon 8					TR on pile.	
2435	- Daybeacon 9					SG on pile.	
2440	- Daybeacon 10					TR on pile.	
2445	- Daybeacon 12					TR on pile.	
2450	- Daybeacon 13					SG on pile.	
2455	- Daybeacon 15					SG on pile.	
2460	- Daybeacon 16					TR on pile.	
2465	- Daybeacon 17					SG on pile.	
2470	- Daybeacon 18					TR on pile.	
2475	- Daybeacon 20					TR on pile.	
2480	- Daybeacon 21	43 18 45 N 78 50 53 W				SG on pile.	
<b>LOWER NIAGARA RIVER (Chart 14816)</b>							
2485	<b>Fort Niagara Light</b>	43 15 42 N 79 03 48 W	<b>Oc W</b> 4s	80 24	10	NG on tower.	
2490	<i>Niagara Bar Lighted Buoy 2</i>	43 19 00 N 79 04 18 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 14 to May 7.
2495	<i>Fort Niagara Lighted Bell Buoy 3</i> Marks northwest side of shoal.		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 14 to May 7.
<b>Niagara River (Below the Falls)</b>							
2505	NIAGARA RIVER RANGE FRONT LIGHT (C)	43 15 18 N 79 03 42 W	<b>FR</b>	34 10		White tower with red top. 34	Visible on range line only. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
2510	NIAGARA RIVER RANGE REAR LIGHT 693 feet, 149.3° from front light. (C)		<b>F R</b>	47 14		White tower with red top. 45	Visible on range line only. Seasonal.
2515	<i>Youngstown Safe Boating Zone</i> <i>Lighted Float A</i>	43 15 17 N 79 03 19 W	<b>Q Y</b>			4x8 foot yellow float displaying two 34x12 inch sign boards.	Maintained from May 1 to Nov. 1. Private aid.
2516	<i>Youngstown Safe Boating Zone</i> <i>Lighted Float B</i>	43 14 41 N 79 03 17 W	<b>Q Y</b>			4x8 foot yellow float displaying two 34x12 inch sign boards.	Maintained from May 1 to Nov. 1. Private aid.
2517	<i>Youngstown Safe Boating Zone</i> <i>Lighted Float C</i>	43 14 16 N 79 03 19 W	<b>Q Y</b>			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 N 79 03 00 W	<b>Q W</b>	8 2		On water ski jump.	Maintained from Jun. 1 to Oct. 31. Private aid.
<b>APPROACHES TO NIAGARA RIVER AND WELLAND CANAL (Chart 14822)</b>							
<b>Port Weller</b>							
2535	- OUTER LIGHT (C)	43 14 42 N 79 13 06 W	<b>FI R</b> 10s 0.3s fl. 9.7s ec.	51 16	15	Red skeleton tower. 20	Maintained from Apr. to Dec. Seasonal.
2545	- EAST BREAKWATER EAST LIGHT (C)		<b>FI G</b> 4s	34 10	9	Orange daymark on white pile. 24	Eastern limits; measured distance. Seasonal.
2550	ST. CATHERINE'S OUTER LIGHT (C)	43 14 42 N 79 12 30 W	<b>Iso R</b> 2s	26 8	5	White cylindrical tower with red top. 12	Seasonal.
2555	- ENTRANCE RANGE FRONT LIGHT (C)	43 13 24 N 79 13 00 W	<b>Iso Y</b> 5s	54 16		On orange and white post.	
2560	- ENTRANCE RANGE REAR LIGHT 2,975 feet, 180° from front light. (C)		<b>F Y</b> <b>(R &amp; G sectors)</b>	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.
<b>CLAYTON TO FALSE DUCK ISLANDS (Chart 14802)</b>							
2565	<b>Nine Mile Point Light</b> (C)	44 09 06 N 76 33 24 W	<b>FI W</b> 10s 0.3s fl. 9.7s ec.	53 16	20	White circular tower with red top. 41	Seasonal. Emergency light.
2570	PIGEON ISLAND LIGHT (C)	44 04 00 N 76 33 00 W	<b>FI W</b> 4s	65 20	8	White square skeleton tower with red top. 50	Seasonal.
2575	<i>South Charity Shoal</i> <i>Lighted Buoy M6</i> Marks southwest side of shoal. (C)		<b>FI R</b> 4s			Red.	
2580	<i>South Charity Shoal</i> <i>Lighted Buoy M7</i> (C)	43 59 00 N 76 32 30 W	<b>FI G</b> 4s			Green.	
2585	<b>Main Duck Island Light</b> (C)	43 55 54 N 76 38 18 W	<b>FI W</b> 6s	77 23	20	White octagonal tower with red upper portion.	Seasonal. Emergency light.
2595	<i>The Ducks Lighted</i> <i>Buoy MM2</i> (C)	43 54 36 N 76 35 42 W	<b>FI R</b> 4s			Red.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ONTARIO</b>							
2600	<i>Main Duck Island Lighted Buoy M9 Marks west side of shoal. (C)</i>	43 50 00 N 76 40 30 W	<b>FI G</b> 4s			Green.	
2605	<i>Psyche Shoal Lighted Bell Buoy M10 Marks southeast side of shoal. (C)</i>		<b>FI R</b> 4s			Red.	
2610	<i>William Shoal Lighted Buoy K11 Marks southwest side of shoal. (C)</i>	43 55 30 N 76 47 48 W	<b>FI G</b> 4s			Green.	Seasonal.
2615	<b>False Ducks Light</b> (C)	43 56 54 N 76 47 54 W	<b>FI R</b> 4s	72 22	20	Hexagonal tower with red and white bands. 62	Seasonal.
2620	<i>False Ducks Bank Lighted Buoy K12 Marks southeast side of bank. (C)</i>	43 56 00 N 76 48 42 W	<b>FI R</b> 4s			Red.	Seasonal.
2625	<i>Traverse Shoal Lighted Buoy K14 (C)</i>	43 54 12 N 76 50 48 W	<b>FI R</b> 4s			Red.	Seasonal.
2630	PRINCE EDWARD POINT LIGHT (C)	43 56 12 N 76 51 30 W	<b>Iso W</b> 2s	47 14	6	White skeleton tower. 43	Seasonal.
2635	<b>Point Petre Light</b> (C)	43 50 24 N 77 09 12 W	<b>FI W</b> 10s 0.3s fl. 9.7s ec.	71 22	15	Red and white banded circular tower. 62	Seasonal.
2645	SCOTCH BONNET ISLAND LIGHT (C)	43 54 00 N 77 32 36 W	<b>FI W</b> 4s	75 23	6	White skeleton tower. 63	
2650	PROCTOR POINT LIGHT (C)	43 58 18 N 77 44 48 W	<b>FI R</b> 4s	40 12		White circular tower with red top. 25	Seasonal.
<b>LAKE ONTARIO (Chart 14800)</b>							
2655	<i>NOAA Lighted Weather Buoy 45012</i>	43 37 15 N 77 24 03 W	<b>FI (4) Y</b> 20s 1s fl 1.5s ec. 1s fl 1.5s ec. 1s fl 1.5s ec. 1s fl 11.5s ec.			Yellow, disk-shaped hull.	Replaced by nun Nov. 1 to Apr. 1.

# Section 3

## Lake Erie

### Buffalo Harbor to Lorain Harbor

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>BUFFALO HARBOR (Chart 14833)</b>							
<b>Buffalo Harbor</b>							
2665	- Traffic Lighted Bell Buoy B	42 50 09 N 78 55 26 W	<b>Mo (A) W</b>			8 Red and white stripes.	Maintained from Apr. 28 to Dec. 1.
2670	BUFFALO INTAKE CRIB LIGHT	42 52 48 N 78 54 42 W	<b>FI (2) W</b> 5s 0.5s fl 1s ec. 0.5s fl 3s ec.	60 <b>18</b>		Large circular building on concrete crib.	Maintained from Apr. 15 to Nov. 1. Private aid.
2675	- WEST BREAKWATER LIGHT		<b>FI W</b> 4s	35 <b>11</b>	5	NG on post.	
2680	- Light		<b>FI G</b> 2.5s	71 <b>22</b>	12	White tower.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from Apr. 1 to Oct 15.
2690	- North Entrance Channel Lighted Bell Buoy 1	42 51 42 N 78 54 29 W	<b>FI G</b> 4s			7 Green.	Maintained from Apr. 28 to Dec. 1.
2695	- North Entrance Channel Lighted Buoy 2	42 51 38 N 78 54 19 W	<b>FI R</b> 4s			7 Red.	Maintained from Apr. 28 to Dec. 1.
2700	- North Entrance Channel Lighted Buoy 4	42 52 09 N 78 53 58 W	<b>FI R</b> 4s			7 Red.	Maintained from Apr. 28 to Dec. 1.
2705	- NORTH ENTRANCE LIGHT 5		<b>FI G</b> 2.5s	34 <b>10</b>	5	SG on post.	
2710	- NORTH ENTRANCE LIGHT 6		<b>FI R</b> 2.5s	34 <b>10</b>	5	TR on post.	
2715	- OLD BREAKWATER NORTH END LIGHT	42 52 42 N 78 53 54 W	<b>FI W</b> 2.5s	35 <b>11</b>	5	NR on post.	
2720	- NORTH ENTRANCE LIGHT 7	42 52 48 N 78 53 48 W	<b>FI G</b> 2.5s	20 <b>6</b>	6	SG on post.	
<b>Buffalo River</b>							
2725	BUFFALO COAST GUARD SLIP LIGHT	42 52 36 N 78 53 30 W	<b>Iso R</b> 6s	20 <b>6</b>	4	TR on post.	
2730	- LIGHT 2		<b>Oc R</b> 4s	25 <b>8</b>	5	TR on post.	
2735	- Junction Lighted Buoy BR	42 52 00 N 78 54 00 W	<b>FI (2+1) R</b> 6s			3 Red and green bands.	Replaced by nun from Dec. 21 to Apr. 1.
2740	- LIGHT 5		<b>FI G</b> 3s	32 <b>10</b>		On white pile.	Maintained from Apr. 1 to Dec. 15. Private aid.
2745	- Buoy 4					Red nun.	
2750	- Buoy 6					Red nun.	
2755	- Buoy 3 Marks shoal.					Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>Black Rock Canal</b>							
2785	- Lighted Buoy 1		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
2790	STATE BREAKWATER LIGHT 2		FI 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		FI G 2.5s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2800	- LIGHT 4		FI R 2.5s	27 8	6	TR on post.	
2805	- Lighted Buoy 5		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2810	- Buoy 6					Red nun.	
2815	- Buoy 7					Green can.	
2820	- Lighted Buoy 8		FI R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2825	- Lighted Buoy 9		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2830	- Lighted Buoy 10		FI R 2.5s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2835	- Lighted Buoy 11	42 53 43 N 78 54 10 W	FI G 2.5s		3	Green.	Replaced by can from Dec. 21 to Apr. 14.
2840	- Lighted Buoy 12		FI R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2845	- Lighted Buoy 13		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2850	- Lighted Buoy 14		FI R 2.5s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
2855	- LIGHT 15		FI G 4s	24 7	4	SG on post.	
2860	- Lighted Buoy 16		FI R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 14.
<i>Lighted buoys maintained from Apr. 14 to Dec. 21.</i>							
2865	- Lighted Buoy 17		FI G 4s		4	Green.	
2875	- Lighted Buoy 19		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2880	- Lighted Buoy 21		FI G 2.5s		4	Green.	
2885	- Lighted Buoy 23		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2890	- Lighted Buoy 24		FI R 4s		4	Red.	
2895	- Lighted Buoy 25		FI G 2.5s		4	Green.	Replaced by can from Dec. 21 to Apr. 14.
2900	- Lighted Buoy 26	42 55 47 N 78 54 00 W	FI R 2.5s		3	Red.	Maintained from Apr. 14 to Dec. 21.
<b>Buffalo Harbor South Entrance</b>							
2905	- Light	42 50 12 N 78 52 30 W	FI W 6s	36 11	10	NR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
2910	- LIGHT 1		<b>FI G</b> 2.5s	20 6	6	SG on post.	
2915	- LIGHT 2		<b>FI R</b> 2.5s	40 12	5	TR on post.	
2925	LACKAWANNA EAST PIERHEAD LIGHT	42 49 54 N 78 51 42 W	<b>F R</b>	20 6		On black post.	Maintained from Apr. 1 to Dec. 31. Private aid.
2930	LACKAWANNA WEST PIERHEAD LIGHT	42 49 48 N 78 51 42 W	<b>F R</b>	20 6		On red post.	Maintained from Apr. 1 to Dec. 31. Private aid.
2935	UNION CANAL LIGHT	42 50 54 N 78 51 36 W	<b>F R</b>	20 6		On black post.	Maintained from Apr. 1 to Dec. 31. Private aid.
<b>Buffalo Outer Harbor</b>							
2960	- Deep Draft Channel Buoy 3					Green can.	
2965	- Deep Draft Channel Buoy 5					Green can.	
2975	<i>Middle Reefs Lighted Buoy EU4 (C)</i>		<b>FI R</b> 4s			Red.	Seasonal. No winter mark.
2975.1	- EU 6 (C)					Red nun.	Maintained from May 1 to Oct. 7.
2975.2	- Limekiln Reef Buoy E7 (C)					Green can.	Maintained from May 1 to Oct. 7.
2975.3	- Bird Island Reef EU 8 (C)					Red nun.	Maintained from May 1 to Oct. 7.
<b>UPPER NIAGARA RIVER (Chart 14832)</b>							
<b>Strawberry Island Cut</b>							
2985	- <i>Lighted Buoy 1</i>	42 56 38 N 78 54 41 W	<b>FI G</b> 4s		3	Green.	Replaced by can from Dec. 7 to May 7.
2990	HARBOUR PLACE MARINA NORTH LIGHT	42 56 36 N 78 54 36 W	<b>F G</b>	15 5		On post.	Maintained from Apr. 1 to Dec. 31. Private aid.
2995	HARBOUR PLACE MARINA SOUTH LIGHT		<b>F R</b>	15 5		On post.	Maintained from Apr. 1 to Dec. 31. Private aid.
3000	- UPPER RANGE FRONT LIGHT	42 57 12 N 78 54 36 W	<b>F R</b>	30 9		KRW on gray post.	
3005	- UPPER RANGE REAR LIGHT 795 feet, 000.5° from front light.		<b>F R</b>	50 15		KRW on gray post.	
3010	- <i>Strawberry Island Cut Lighted Buoy 5</i>	42 57 00 N 78 54 40 W	<b>Q G</b>		4	Green.	Replaced by can from Dec. 7 to May 7.
3015	- LOWER RANGE FRONT LIGHT	42 57 00 N 78 54 36 W	<b>F R</b>	30 9		KRW on gray post.	Visible on range line only.
3020	- LOWER RANGE REAR LIGHT 750 feet, 139.5° from front light.		<b>F R</b>	83 25		KRW on skeleton tower.	Visible on range line only.
3025	- <i>Lighted Buoy 7 Marks Strawberry Island Reef.</i>		<b>FI G</b> 4s		4	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
<b>LAKE ERIE</b>							
3030	- Buoy 8					Red nun.	
3035	- Buoy 9					Green can.	Maintained from May 7 to Dec. 21.
3040	- Buoy 10					Red nun.	Maintained from May 7 to Dec. 21.
3045	- Lighted Buoy 11		<b>FI G</b> 2.5s		6	Green.	Replaced by can from Dec. 21 to May 7.
3050	- Buoy 12					Red nun.	Maintained from May 7 to Dec. 7.
<b>Beaver Island State Park</b>							
<i>Lights maintained from May 15 to Nov. 1.</i>							
3055	- EAST BULKHEAD LIGHT		<b>Q Y</b>	12 4		NY on pile.	Private aid.
3060	- EAST ENTRANCE LIGHT 2	42 57 30 N 78 57 18 W	<b>FI R</b> 2s	12 4		TR on pile.	Private aid.
3065	- WEST ENTRANCE LIGHT 1		<b>FI G</b> 2s	12 4		SG on pile.	Private aid.
3070	- WEST BULKHEAD LIGHT		<b>Q Y</b>	12 4		NY on pile.	Private aid.
<b>Strawberry Island Cut</b>							
3075	GRAND ISLAND DIRECTION LIGHT	42 58 40 N 78 56 50 W	<b>F R W G</b>	29 9 9 3	G R W	7 4 NB on gray post.	
3085	- Buoy 13					Green can.	
3090	- Buoy 14					Red nun.	
3091	- Lighted Buoy 15	42 57 54 N 78 55 46 W	<b>FI G</b> 4s		3	Green.	Replaced by can from Dec. 21 to May 7.
3095	- Buoy 16					Red nun.	Maintained from May 7 to Dec. 7.
3105	<i>Erie County Water Authority Lighted Intake Buoy ECWA</i>	42 57 54 N 78 55 54 W	<b>FI Y</b> 2.5s			Yellow.	Maintained from Apr. 1 to Jan. 1. Private aid.
3110	- Buoy 18					Red nun.	
3135	- Lighted Buoy 20		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 7 to May 7.
<b>Tonawanda Channel</b>							
3140	- Buoy 21 Marks east side of shoal.					Green can.	
3145	- Buoy 22 Marks shoal.					Red nun.	
3150	- Lighted Buoy 26		<b>Q R</b>		4	Red.	Nun; winter marker. Maintained from May 7 to Dec. 7.
3155	- Lighted Buoy 28		<b>FI R</b> 4s		4	Red.	Maintained from May 1 to Dec. 7.
3155.1	COLLINS MARINE ENTRANCE LIGHT 1	42 59 48 N 78 56 06 W	<b>F G</b>	15 5		SG 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
<b>LAKE ERIE</b>							
3155.2	COLLINS MARINE ENTRANCE LIGHT 2	42 59 48 N 78 56 12 W	<b>F R</b>	9 3		TR on post.	Maintained from Apr. 1 to Nov. 1. Private aid.
3156	- <i>Lighted Buoy 29</i>		<b>FI G</b> 4s		4	Green.	Maintained from May 7 to Dec. 7.
3157	UNITED REFINERY OBSTRUCTION LIGHT A		<b>FI W</b> 2s	12 4			Private aid.
3158	UNITED REFINERY OBSTRUCTION MIDDLE LIGHT	43 00 02 N 78 55 45 W	<b>F R</b>	18 5			Private aid.
3159	UNITED REFINERY OBSTRUCTION LIGHT B		<b>FI W</b> 2s	12 4			Private aid.
3160	- Buoy 31					Green can.	Maintained from May 1 to Dec. 7.
3165	TONAWANDA INTAKE CRIB LIGHT	43 01 00 N 78 53 36 W	<b>FI W</b> 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 21 N 78 53 11 W				Green can.	Maintained from May 7 to Dec. 7.
<i>Unlighted buoys maintained from May 7 to Dec. 7.</i>							
3180	- Buoy 33					Green can.	Maintained from May 7 to Dec. 7.
3183	- Buoy 34					Red nun.	Maintained from May 7 to Dec. 7.
3185	NORTH TONAWANDA INTAKE CRIB LIGHT	43 01 30 N 78 53 30 W	<b>FI G</b> 4s	19 6		Cylindrical structure on crib.	Maintained from Apr. 15 to Nov. 1. Private aid.
3190	- Buoy 35	43 01 53 N 78 53 27 W				Green can.	Maintained from May 07 to Dec. 07.
3195	- Buoy 36					Red nun.	Maintained from May 7 to Dec. 7.
3200	LOCKPORT INTAKE CRIB LIGHT		<b>FI W</b> 4s	15 5		NW worded DANGER on cylindrical structure.	Maintained from May 15 to Nov. 1. Private aid.
3215	- Buoy 37					Green can.	Maintained from May 7 to Dec 7.
<b>Niagara River</b>							
3235	- <i>Lighted Buoy 39</i>	43 02 42 N 78 53 42 W	<b>FI G</b> 4s		3	Green.	Maintained from May 7 to Dec. 7.
3240	- <i>Lighted Buoy 41</i>	43 02 57 N 78 54 07 W	<b>FI G</b> 4s		3	Green.	Maintained from May 7 to Dec. 7.
3243	<i>Niagara River Lighted Buoy 42</i>	43 03 00 N 78 54 05 W	<b>FI R</b> 4s		3	Red.	Maintained from May 7 to Dec. 7.
3245	- <i>Lighted Buoy 43</i>	43 03 22 N 78 55 18 W	<b>FI G</b> 4s		3	Green.	Maintained from May 7 to Dec. 7.
3250	- <i>Lighted Buoy 45</i>	43 03 50 N 78 56 38 W	<b>FI G</b> 4s		3	Green.	Maintained from May 7 to Dec. 7.
3255	- <i>Lighted Buoy 47</i>	43 03 56 N 78 58 46 W	<b>FI G</b> 4s		3	Green.	Maintained from May 7 to Dec. 7.
3265	LITTLE RIVER RANGE FRONT LIGHT	43 04 30 N 78 57 12 W	<b>F R</b>	29 9		On pile.	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
<b>LAKE ERIE</b>							
3270	LITTLE RIVER RANGE REAR LIGHT 200 feet, 344° from front light.		<b>F R</b>	33 10		On pile.	Maintained from May 1 to Nov. 1. Private aid.
3275	LA SALLE YACHT CLUB PIER EAST LIGHT	43 04 24 N 78 59 18 W	<b>F R</b>	6 2			Maintained from Apr. 15 to Nov. 15. Private aid.
3280	LA SALLE YACHT CLUB PIER WEST LIGHT		<b>F R</b>	6 2			Maintained from Apr. 15 to Nov. 15. Private aid.
3285	NIAGARA MOHAWK POWER CORPORATION LIGHT	43 04 12 N 79 00 00 W	<b>FI W 3s</b>	14 4		Tower	Maintained from Apr. 15 to Nov. 15. Private aid.
3290	OCCIDENTAL INTAKE CRIB LIGHT	43 04 12 N 79 00 12 W	<b>FI W 4s</b>	15 5		Concrete crib.	Maintained from Apr. 1 to Nov. 30. Private aid.
3292	NIAGARA FALLS INTAKE CRIB LIGHT	43 04 12 N 79 00 00 W	<b>FI W 2.5s</b>	14 4		NW on concrete crib.	Maintained from Apr. 1 to Nov. 30. Private aid.
3295	NIAGARA FALLS TRANSMISSION LINE LIGHT B		<b>FI W 3s</b>	20 6		Gray cylindrical standard on concrete base.	Maintained from Apr. 15 to Nov. 15. Private aid.
3300	NIAGARA FALLS TRANSMISSION LINE LIGHT C		<b>FI W 3s</b>	20 6		Cylindrical standard.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>Buckhorn Island</b>							
3305	- DIKE LIGHT 1		<b>FI W 4s</b>	20 6			Maintained from Apr. 1 to Dec. 1. Private aid.
3310	- DIKE LIGHT 2		<b>FI W 4s</b>	20 6			Maintained from Apr. 1 to Dec. 1. Private aid.
3315	- DIKE LIGHT 3		<b>FI W 4s</b>	20 6			Maintained from Apr. 1 to Dec. 1. Private aid.
3325	HOOKER ELECTROCHEMICAL CRIB LIGHT		<b>FI W 7s</b>	9 3		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
3330	HOOKER ELECTROCHEMICAL OUTFALL CRIB LIGHT	43 03 52 N 78 59 37 W	<b>FI W 7s</b>	9 3		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
<b>Chippawa Channel</b>							
3335	BIG SIX MILE CREEK LIGHT	43 01 36 N 79 00 42 W	<b>F R</b>	12 4		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
3340	CHIPPAWA LIGHT (C)	43 03 48 N 79 02 54 W	<b>Iso R 2s</b>	16 5		On ornamental pile.	Defines danger zone above Niagara Falls. Private aid.
3343	NIAGARA SAFETY ZONE LIGHT	43 04 41 N 79 01 35 W	<b>Q Y</b>	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 N 79 01 07 W				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.					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
<b>LAKE ERIE</b>							
3355	Niagara Falls Safety Buoy C Marks safety zone above Niagara Falls.					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.					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.					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.					White can with orange bands and danger symbol.	Maintained from May 1 to Oct. 28.
3359.1	- Safety Buoy 1 Marks safety zone above Niagra Falls. (C)	42 03 46 N 79 02 32 W				White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.2	- Safety Buoy 2 Marks safety zone above Niagra Falls. (C)					White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.3	- Safety Buoy 3 Marks safety zone above Niagra Falls. (C)					White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.4	- Safety Buoy 4 Marks safety zone above Niagra Falls. (C)					White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.5	- Safety Buoy 5 Marks safety zone above Niagra Falls. (C)					White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
3359.6	- Safety Buoy 6 Marks safety zone above Niagra Falls. (C)					White can with orange bands and danger symbols.	Maintained from May 1 to Oct. 7.
<b>APPROACHES TO NIAGARA RIVER (Chart 14822)</b>							
3360	<i>Seneca Shoal Lighted Buoy 2</i> Marks northwest side of shoal.	42 47 35 N 78 55 56 W	<b>FI R</b> 4s			4 Red.	Maintained from May 7 to Dec. 1.
<b>STURGEON POINT TO TWENTY MILE CREEK (Chart 14823)</b>							
3365	STURGEON POINT LIGHT 2	42 41 36 N 79 02 42 W	<b>FI R</b> 2.5s		32 10	4 TR on post.	
3370	STURGEON POINT LIGHT 3		<b>FI G</b> 4s		28 9	4 SG on post.	
<b>Cattaraugus Creek</b>							
3375	- NORTH BREAKWATER LIGHT 1	42 34 18 N 79 08 18 W	<b>FI G</b> 2.5s		31 9	4 SG on pile.	
3380	- SOUTH BREAKWATER LIGHT 2	42 34 18 N 79 08 24 W	<b>FI R</b> 2.5s		31 9	4 TR on pile.	
<b>Dunkirk Harbor</b>							
3410	<b>Dunkirk Light</b>	42 29 36 N 79 21 12 W	<b>Oc W</b> 4s		82 25	16 White square tower with dwelling attached.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
3415	- Lighted Buoy 2	42 29 49 N 79 21 05 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
3420	- Buoy 3	42 29 43 N 79 20 48 W				Green can.	Maintained from May 14 to Nov. 01.
3425	- Buoy 4					Red nun.	Maintained from May 14 to Nov. 01.
3430	- LIGHT 5		<b>FI G</b> 4s	20 6	5	SG on pile.	
3435	- Pierhead Light 6	42 29 35 N 79 20 43 W	<b>FI R</b> 6s	36 11	10	White cylindrical tower with red band.	
3440	- Buoy 7					Green can.	Maintained from May 14 to Nov. 01.
3445	- Buoy 8					Red nun.	Maintained from May 14 to Nov. 01.
3450	- Buoy 9					Green can.	Maintained from May 14 to Nov. 01.
3453	- Buoy 10					Red nun.	Maintained from May 14 to Nov. 01.
3455	- EAST INNER BREAKWATER WEST END LIGHT 1	42 29 30 N 79 20 12 W	<b>FI G</b> 2.5s	35 11	4	SG on post.	
3460	- WEST INNER BREAKWATER EAST END LIGHT 2	42 29 24 N 79 20 12 W	<b>FI R</b> 2.5s	33 10	4	TR on post.	
3465	- WEST INNER BREAKWATER WEST END LIGHT 4	42 29 18 N 79 20 30 W	<b>FI R</b> 4s	33 10	4	TR on post.	
3470	- West Dock Front Channel Buoy 1					Green can.	Maintained from May 14 to Nov. 1.
3475	- West Dock Front Channel Buoy 3	42 29 18 N 79 20 33 W				Green can.	Maintained from May 14 to Nov. 1.
<b>STURGEON POINT TO TWENTY MILE CREEK (Chart 14823)</b>							
3480	BARCELONA HARBOR EAST BREAKWATER LIGHT	42 20 42 N 79 35 54 W	<b>FI G</b> 4s	26 8	6	SG on post.	
3485	BARCELONA HARBOR WEST BREAKWATER LIGHT		<b>FI R</b> 4s	26 8	6	TR on post.	
3490	WILLIS CRIB DOCK LIGHT	42 10 24 N 80 00 30 W	<b>FI W</b> 4s	20 6	6	NB on gray post.	
3492	Willis Crib Isolated Danger Buoy DW	42 10 21 N 80 00 54 W				Black with red band.	
<b>ERIE HARBOR (Chart 14835)</b>							
<b>Erie Harbor</b>							
3495	- PIERHEAD LIGHT	42 09 24 N 80 04 18 W	<b>FI R</b> 2.5s	42 13	7	Square tower with black and white bands.	
3505	INTERNATIONAL PAPER EAST CRIB LIGHT		<b>Q W</b>	15 5		NG on gray pile.	Maintained from May 1 to Nov. 30. Private aid.
3510	International Paper Obstruction Buoy	42 08 48 N 80 03 30 W				White can with orange bands and diamond worded ROCKS.	Maintained from May 15 to Nov. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
3515	- Entrance Lighted Bell Buoy 1	42 09 49 N 80 03 11 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 7 to May 1.
3520	- Entrance Lighted Buoy 2	42 09 53 N 80 03 15 W	<b>FI R</b> 4s		4	Red.	
3525	- Entrance Buoy 3					Green can.	
3530	- Entrance Buoy 4					Red nun.	
3535	- Entrance Lighted Buoy 5	42 09 19 N 80 04 12 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 7 to May 1.
3540	- LIGHT 7	42 09 12 N 80 04 24 W	<b>FI G</b> 4s	27 8	4	SG on post.	
3545	- ENTRANCE RANGE FRONT LIGHT	42 09 06 N 80 04 54 W	<b>F G</b>	27 8		KRW on skeleton tower.	West side of tower only visible to outbound vessels.
3550	- ENTRANCE RANGE REAR LIGHT 755 feet, 235° from front light.		<b>F G</b>	55 17		KRW on skeleton tower.	
3555	JOHN E. LAMPE MUNICIPAL MARINA LIGHT 1	42 08 54 N 80 04 30 W	<b>F G</b>			SG on tower.	Private aid.
3560	JOHN E. LAMPE MUNICIPAL MARINA LIGHT 2	42 08 54 N 80 04 24 W	<b>F R</b>	24 7		TR on tower.	Private aid.
3565	- LIGHT 8	42 09 06 N 80 04 53 W	<b>FI R</b> 4s	30 9	4	TR on post.	
3570	- Junction Buoy M	42 09 05 N 80 04 55 W				Red with green band; nun.	
3575	- Lighted Buoy 9	42 08 53 N 80 05 08 W	<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 7 to May 1.
3580	- Lighted Buoy 10	42 08 55 N 80 05 17 W	<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Dec. 1 to May 1.
3585	- Lighted Buoy 11	42 08 47 N 80 05 11 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 1 to May 7.
3590	- Lighted Buoy 12	42 08 47 N 80 05 33 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 1 to May 7.
3595	- Lighted Buoy 13	42 08 36 N 80 05 06 W	<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 1 to May 7.
3596	- Lighted Buoy 14	42 08 34 N 80 05 42 W	<b>FI R</b> 4s		4	Red.	Replaced by can from Dec. 1 to May 7.
3597	- No Wake Buoy	42 08 30 N 80 05 06 W				White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3597.5	- No Wake Buoy					White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3598	- No Wake Buoy					White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3598.5	- No Wake Buoy					White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.
3599	- No Wake Buoy					White can with orange bands worded SLOW-NO WAKE.	Maintained from May 15 to Sep. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>Presque Isle Park</b>							
<i>Aids maintained from May 1 to Nov. 1.</i>							
3615	- RANGE FRONT LIGHT	42 09 24 N 80 06 48 W	<b>F R</b>	19 6		KWB on skeleton tower.	Private aid.
3620	- RANGE REAR LIGHT 425 feet, 339.8° from front light.		<b>F R</b>	31 9		KWB on skeleton tower.	Private aid.
3625	- LIGHT 1	42 09 12 N 80 06 48 W	<b>FI G</b> 2s	20 6		SG on post.	Private aid.
3630	- LIGHT 2		<b>FI R</b> 2s	20 6		TR on post.	Private aid.
3635	- LIGHT 3		<b>FI G</b> 2s	20 6		SG on post.	Private aid.
3640	- LIGHT 4		<b>FI R</b> 2s	20 6		TR on post.	Private aid.
<b>Erie Harbor</b>							
3645	- Water Pipe Intake Buoy A					White and orange bands; spar.	Maintained from May 1 to Nov. 30. Private aid.
3650	- Water Pipe Intake Buoy B					White with orange bands; spar.	Maintained from May 1 to Nov. 30. Private aid.
3655	- Water Pipe Intake Buoy C					White with orange bands; spar.	Maintained from May 1 to Nov. 30. Private aid.
<b>Erie Yacht Club</b>							
3660	- BREAKWATER LIGHT		<b>FI W</b> 2s	32 10		White lighthouse.	Maintained from Apr. 1 to Oct. 30. Private aid.
3665	- ENTRANCE LIGHT 1		<b>F G</b>	10 3		SG on skeleton tower.	Maintained from May 30 to Oct. 15. Private aid.
3670	- ENTRANCE LIGHT 2		<b>F R</b>	10 3		TR on skeleton tower.	Maintained from May 30 to Oct. 15. Private aid.
3675	Erie Harbor West Shoal Buoy A	42 07 42 N 80 08 06 W				White can with orange bands.	Maintained from May 15 to Sep. 15. Private aid.
3680	Erie Harbor West Shoal Buoy B					White can with orange bands.	Maintained from May 15 to Sep. 15. Private aid.
3685	Erie Harbor West Shoal Buoy C					White can with orange bands.	Maintained from May 15 to Sep. 15. Private aid.
<b>SIXTEEN MILE CREEK TO CONNEAUT (Chart 14824)</b>							
3690	<b>Presque Isle Light</b>	42 09 48 N 80 06 54 W	<b>Iso W</b> 6s	73 22	15	Square tower. 68	Standby light of reduced intensity shows FI W 10s.
3695	WALNUT CREEK BREAKWATER LIGHT	42 04 36 N 80 14 18 W	<b>FI R</b> 2.5s	14 4		On pile.	Maintained from May 1 to Nov. 1. Private aid.
3696	Walnut Creek Channel Light	42 04 38 N 80 14 23 W	<b>FI G</b> 2s	12 4	12	On steel tower	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
<b>LAKE ERIE</b>							
<b>Conneaut Harbor</b>							
3700	- BREAKWATER LIGHT 1		<b>FI G</b> 4s	46 14	6	SG on gray post.	
3705	- <b>West Breakwater Light</b>	41 58 48 N 80 33 30 W	<b>Al WR</b> 10s 0.1s W fl 4.9s ec. 0.1s R fl 4.9s ec.	80 24	W 18 R 15	Square pyramidal tower.	
3710	- EAST GAP LIGHT 1		<b>FI G</b> 4s	25 8	4	SG on post.	
3715	- PIER LIGHT 3		<b>FI G</b> 2.5s	20 6	4	SG on post.	
3720	- PIER LIGHT 4		<b>Iso R</b> 6s	28 9	4	TR on post.	
3725	CONNEAUT BOAT CLUB WEST LIGHT		<b>F R</b>	14 4		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
3730	CONNEAUT BOAT CLUB EAST LIGHT		<b>F G</b>	14 4		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
3731	CONNEAUT HARBOR NORTH LIGHT 1		<b>FI G</b> 3s	19 6		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
3732	CONNEAUT HARBOR NORTH LIGHT 2		<b>FI R</b> 3s	19 6		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
3735	Conneaut Shoal Buoys (11) Marks shoals to municipal pier.					White can with orange bands and diamond worded DANGER.	Maintained from Apr. 1 to Oct. 1. Private aids.
<b>ASHTABULA TO CHAGRIN RIVER (Chart 14825)</b>							
3740	ASHTABULA INTAKE BREAKWATER LIGHT	41 54 48 N 80 46 12 W	<b>FI G</b> 3s	17 5		SG on skeleton tower.	Maintained from Apr. 15 to Nov. 1. Private aid.
3742	Ashtabula Township Park Breakwall Light	41 54 30 N 80 46 49 W	<b>F Y</b>	7 2		On single pile.	Private aid.
<b>ASHTABULA HARBOR (Chart 14836)</b>							
<b>Ashtabula Harbor</b>							
3745	- <b>Light</b>	41 55 07 N 80 47 46 W	<b>FI Y</b> 6s	51 16	9	White cylindrical tower on white square house.	
3750	ASHTABULA EAST BREAKWATER SOUTH END LIGHT	41 54 48 N 80 46 48 W	<b>FI W</b> 4s	27 8	8	NR on post.	
3755	- ENTRANCE LIGHT 1		<b>FI G</b> 4s	34 10	7	White cylindrical tower with green band.	
3760	- ENTRANCE LIGHT 2		<b>FI R</b> 2.5s	40 12	7	White cylindrical tower with red band.	
3765	- <i>Lighted Buoy 3</i>	41 55 05 N 80 47 30 W	<b>FI G</b> 2.5s		4	Green.	
3770	- <i>Ashtabula Harbor Junction Lighted Buoy A</i>	41 54 57 N 80 47 34 W	<b>FI (2+1) G</b> 6s		4	Green with red bands.	
3775	- INNER BREAKWATER LIGHT 7	41 54 42 N 80 47 42 W	<b>FI G</b> 2.5s	34 10	4	White cylindrical tower with green bands.	
3780	- <i>East Basin Lighted Buoy 1</i>	41 54 55 N 80 47 19 W	<b>FI G</b> 4s		4	Green.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
3785	- East Basin Lighted Buoy 2	41 54 49 N 80 47 24 W	<b>FI R</b> 4s		4	Red.	
3790	ASHTABULA RIVER LIGHT 1		<b>FI G</b> 2.5s	31 9	4	SG on post.	
3795	- Ashtabula River Lighted Buoy 2	41 54 39 N 80 47 55 W	<b>FI R</b> 4s		3	Red.	Maintained from May 01 to Nov. 01.
3800	ASHTABULA RIVER LIGHT 4	41 54 33 N 80 47 57 W	<b>FI R</b> 6s	35 11	7	TR on grey post.	
3802	Ashtabula River Shoal Buoy 6	41 53 59 N 80 47 41 W				Red nun.	Maintained from May 01 to Nov. 01.
3804	Ashtabula River Shoal Buoy 8	41 53 59 N 80 47 40 W				Red nun.	Maintained from May 01 to Nov. 01.
3805	Ashtabula River Shoal Buoy 9					Green can.	Maintained from May 1 to Nov. 1.
<b>ASTABULA TO CHAGRIN RIVER (Chart 14825)</b>							
3825	GENEVA ON THE LAKE LIGHT 1	41 51 36 N 80 58 30 W	<b>FI G</b> 2.5s	31 9	3	White cylindrical tower.	
3830	GENEVA ON THE LAKE LIGHT 2		<b>FI R</b> 2.5s	31 9	5	TR on post.	
<b>FAIRPORT HARBOR (Chart 14837)</b>							
<b>Fairport Harbor</b>							
3835	- EAST BREAKWATER EAST END LIGHT	41 46 06 N 81 15 24 W	<b>FI R</b> 4s	28 9	6	TR on pile.	Higher intensity beam in easterly direction.
3840	- BREAKWATER LIGHT A	41 46 00 N 81 16 00 W	<b>FI Y</b> 2.5s	27 8	4	NY on post.	
<b>ASHTABULA TO CHAGRIN RIVER (Chart 14825)</b>							
<b>Fairport Harbor</b>							
3845	- BREAKWATER LIGHT B	41 46 00 N 81 15 42 W	<b>FI Y</b> 2.5s	27 8	4	NY on post.	
3850	Lake County Outer PVI Crib Lighted Buoy Marks north side of crib.	41 46 06 N 81 15 46 W	<b>FI W</b> 3s			White can with orange bands and diamond.	Maintained from Apr. 15 to Nov. 15. Private aid.
3855	LAKE COUNTY INNER CRIB LIGHT		<b>FI W</b> 2.5s	15 5		NW on post.	Maintained from Apr. 15 to Nov. 15. Private aid.
3860	- EAST BREAKWATER LIGHT		<b>FI G</b> 4s	37 11	6	SG on post.	
3865	- WEST BREAKWATER EXTENSION LIGHT		<b>FI R</b> 2.5s	46 14	8	TR on post.	
3870	- West Breakwater Light		<b>Iso W</b> 6s	56 17	10	Tower.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from Apr. 1 to Oct 15.
3880	- WEST PIER LIGHT	41 45 42 N 81 16 48 W	<b>F R</b>	20 6	5	White cylindrical tower with red band.	
3885	- EAST PIER LIGHT	41 45 42 N 81 16 48 W	<b>Iso G</b> 6s	26 8	5	SG on post.	
3890	- PORT AUTHORITY BOAT RAMP LIGHT	41 45 36 N 81 16 42 W	<b>Q R</b>	13 4		On post.	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
<b>LAKE ERIE</b>							
3891	- PORT AUTHORITY BREAKWATER LIGHT	41 45 36 N 81 16 40 W	<b>FI W</b> 4s	9 3		On post.	Private aid.
3895	MORTON SALT COMPANY BOATLOADING NORTH AND SOUTH LIGHTS (2)		<b>F R</b>	12 4			Maintained from May 1 to Nov. 1. Private aid.
3900	MORTON SALT COMPANY DOLPHIN LIGHT		<b>F R</b>	12 4		On dolphin.	Maintained from May 1 to Nov. 1. Private aid.
3905	<i>Painesville Inner Intake Crib Lighted Buoy 1</i>	41 45 24 N 81 17 54 W	<b>Q G</b>			Green.	Maintained from Apr. 15 to Nov. 15. Private aid.
3907	<i>North Carolina Lighted Buoy 9</i>	41 43 48 N 81 22 53 W	<b>Q W</b>				Maintained from Apr. 15 to Oct. 15. Private.
<b>Mentor Harbor</b>							
<i>Aids maintained from May 1 to Nov. 1.</i>							
3910	- LIGHT 1	41 43 42 N 81 21 12 W	<b>F G</b>	21 6		SG on white pile.	Private aid.
3915	- LIGHT 2		<b>F R</b>	21 6		TR on white pile.	Private aid.
3920	- LIGHT 3		<b>FI W</b> 2s	33 10		White diamond daymark on white pile.	Private aid.
3925	- LIGHT 4		<b>F R</b>	10 3		On post.	Private aid.
3930	- YACHT CLUB RANGE FRONT LIGHT	41 43 30 N 81 21 00 W	<b>F W</b>	20 6		On white post.	Private aid.
3935	- YACHT CLUB RANGE REAR LIGHT 465 feet, 142° from front light.		<b>F W</b>	25 8		On white post.	Private aid.
<b>ASHTABULA TO CHAGRIN RIVER (Chart 14825)</b>							
3940	CHAGRIN EAST PIER LIGHT	41 40 36 N 81 26 12 W	<b>FI G</b> 4s	27 8		On green post.	Maintained from May 1 to Oct. 31. Private aid.
3945	CHAGRIN WEST PIER LIGHT	41 40 36 N 81 26 18 W	<b>FI R</b> 4s	27 8		On red post.	Maintained from May 1 to Oct. 31. Private aid.
3950	CHAGRIN WEST PIER INNER LIGHT		<b>F R</b>	32 10		On red post.	Maintained from May 1 to Oct. 31. Private aid.
3955	EASTLAKE INTAKE BREAKWATER LIGHT	41 40 27 N 81 26 50 W	<b>Q Y</b>	18 5		NW on post worded DANGER.	Maintained from Apr. 15 to Dec. 1. Private aid.
<b>MOSS POINT TO VERMILLION (Chart 14826)</b>							
<b>Wildwood Park</b>							
<i>Lights maintained from May 1 to Oct. 15.</i>							
3975	- WEST DETACHED BREAKWATER LIGHT	41 35 18 N 81 34 00 W	<b>Q W</b>	16 5		NW on pile.	Private aid.
3980	- CENTER DETACHED BREAKWATER LIGHT	41 35 18 N 81 34 00 W	<b>Q W</b>	16 5		NW on pile.	Private aid.
3985	- EAST DETACHED BREAKWATER LIGHT	41 35 24 N 81 34 00 W	<b>Q W</b>	16 5		NW on pile.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
3990	- EAST PIERHEAD LIGHT	41 35 18 N 81 34 00 W	<b>FI G</b> 4s	16 5		SG on pile.	Private aid.
3995	- WEST PIERHEAD LIGHT	41 35 12 N 81 35 12 W	<b>FI R</b> 4s	16 5		TR on pile.	Private aid.
3996	- INNER PIERHEAD LIGHT		<b>FI G</b> 4s	16 5		SG on pile.	Private aid.
4000	EUCLID BEACH EAST BREAKWATER LIGHT	41 35 00 N 81 34 06 W	<b>Q G</b>	26 8		On post.	Private aid.
4005	EUCLID BEACH WEST BREAKWATER LIGHT	41 35 00 N 81 34 12 W	<b>Q G</b>	26 8		On post.	Private aid.
4015	NORTHEAST YACHT CLUB OUTER LIGHT	41 34 24 N 81 35 06 W	<b>F R</b>	14 4		On pile.	Maintained from Mar. 15 to Nov. 1. Private aid.
4020	NORTHEAST YACHT CLUB INNER LIGHT	41 34 24 N 81 35 04 W	<b>F G</b>	14 4		On pile.	Maintained from Mar. 15 to Nov. 1. Private aid.
4021	NEWPORT HARBOR ENTRANCE LIGHT 1	41 33 24 N 81 36 30 W	<b>F G</b>	20 6		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
4022	NEWPORT HARBOR ENTRANCE LIGHT 2		<b>F R</b>	20 6		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
4030	CLEVELAND WATERWORKS INTAKE CRIB LIGHT	41 33 00 N 81 45 00 W	<b>Q W</b>	55 17		Square house on cylindrical crib.	Maintained from May 1 to Dec. 1. Private aid. HORN: 1 blast ev 30s (3s bl).
4035	<i>Cleveland Intake Lighted Buoy</i> Marks submerged water intake.		<b>FI W</b> 4s			White with orange bands.	Replaced by unlighted buoy from Nov. 1 to May. 1. Private aid.
<b>CLEVELAND HARBOR (Chart 14839)</b>							
<b>Cleveland Harbor</b>							
<b>Gordon Park</b>							
4040	- DISPOSAL LIGHT A	41 32 54 N 81 38 00 W	<b>FI W</b> 4s	40 12	6	NB on post.	
4045	- BOAT BASIN LIGHT 1	41 32 30 N 81 38 18 W	<b>FI G</b> 2.5s	40 12	4	SG on post.	
4050	- BOAT BASIN ENTRANCE NORTH LIGHT		<b>FI R</b> 4s	18 5		On pile.	Maintained from May 1 to Oct. 15. Private aid.
4055	- BOAT BASIN ENTRANCE SOUTH LIGHT		<b>FI G</b> 4s	18 5		On pile.	Maintained from May 1 to Oct. 15. Private aid.
<b>Cleveland Harbor</b>							
<i>Lighted buoys maintained from Apr. 28 to Dec. 14.</i>							
4060	- EAST ENTRANCE LIGHT 2	41 32 36 N 81 39 06 W	<b>Iso R</b> 6s	59 18	6	TR on skeleton tower. 47	
4065	- <i>East Basin Channel Lighted Buoy 1</i>	41 32 25 N 81 39 03 W	<b>FI G</b> 4s		4	Green.	Maintained from Apr. 14 to Dec. 1. Maintained from Apr. 14 to Dec. 7.
4070	- East Basin Channel Buoy 4					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
4075	- EAST 55th STREET MARINA ENTRANCE NORTH LIGHT		<b>FI G</b> 4s	14 4		On pile.	Maintained from May 1 to Oct. 15. Private aid.
4080	- EAST 55th STREET MARINA ENTRANCE SOUTH LIGHT		<b>FI R</b> 4s	18 5		On pile.	Maintained from May 1 to Oct. 15. Private aid.
4085	- <i>East Basin Channel</i> <i>Lighted Buoy 5</i>	41 31 55 N 81 39 56 W	<b>FI G</b> 4s		4	Green.	Maintained from Apr. 14 to Dec. 1. Maintained from Apr. 14 to Dec. 7.
4090	- <i>East Basin Channel</i> <i>Lighted Buoy 6</i>	41 31 59 N 81 40 00 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 1 to Dec. 1. Maintained from Apr. 14 to Dec. 7.
4095	- EAST BASIN DIKE LIGHT 2		<b>FI R</b> 4s	27 8	4	TR on skeleton tower.	
4100	Forest City Yacht Club Buoy 4					Red nun.	Maintained from May 1 to Oct. 14.
4104	BKL REGULATED NAVIGATION AREA LIGHT	41 31 30 N 81 40 00 W	<b>FI Y</b> 4s	6 2		NW on pile worded DANGER LOW FLYING AIRCRAFT.	Private aid.
4105	LAKESIDE YACHT CLUB ENTRANCE NORTH LIGHT		<b>F G</b>	7 2		On post.	Maintained from Mar. 1 to Dec. 1. Private aid.
4110	LAKESIDE YACHT CLUB ENTRANCE SOUTH LIGHT		<b>F R</b>	7 2		On post.	Maintained from Mar. 1 to Dec. 1. Private aid.
4120	- <i>East Basin Channel</i> <i>Lighted Buoy 8</i>	41 31 36 N 81 40 40 W	<b>FI R</b> 6s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4130	- <i>East Basin Channel</i> <i>Lighted Buoy 10</i>		<b>FI R</b> 4s		3	Red.	Replaced by nun from Dec. 7 to Apr. 14.
4135	- <i>East Basin Channel</i> <i>Lighted Buoy 11</i>	41 30 49 N 81 41 52 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 14.
4140	- <i>East Basin Channel</i> <i>Lighted Buoy 12</i>	41 30 53 N 81 41 56 W	<b>FI R</b> 6s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4147	NORTH COAST HARBOR DAYBEACON 1					SG on pilings.	Private aid.
4150	NORTH COAST HARBOR LIGHT 2	41 30 36 N 81 41 48 W	<b>FI R</b> 4s	23 7		TR on post.	Maintained from Apr. 15 to Nov. 15. Private aid.
4155	- <i>East Basin Channel</i> <i>Lighted Buoy 14</i>	41 30 36 N 81 42 26 W	<b>FI R</b> 4s		3	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4160	- <b>Main Entrance Light</b>	41 30 32 N 81 43 04 W	<b>Al WR</b> 10s 0.1s W fl 4.9s ec. 0.1s R fl 4.9s ec.	63 19	W 16	White conical tower with fog signal building attached.	HORN: 2 blasts ev 30s (2s bl- 2s si-2s bl-24s si). Operates from Apr. 1 to Dec. 1.
4165	- MAIN ENTRANCE LIGHT 1		<b>Iso G</b> 6s	39 12	7	Tower. 31	
4170	- LIGHT 3		<b>FI G</b> 4s	29 9	4	SG on post. 18	
4175	- LIGHT 4		<b>FI R</b> 4s	29 9	5	TR on post. 19	
4180	- LIGHT 5		<b>FI G</b> 2.5s	31 9	3	SG on post. 29	
4185	- LIGHT 6		<b>FI R</b> 2.5s	27 8	4	TR on post. 18	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>Whiskey Island Marina</b>							
4190	- ENTRANCE LIGHT 1	41 29 59 N 81 43 02 W	<b>FI G</b> 2s	7 2		SG on post.	Private aid.
4191	- ENTRANCE LIGHT 2	41 29 57 N 81 43 04 W	<b>FI R</b> 2s	7 2		TR on post.	Private aid.
<b>Cleveland Harbor West Basin Channel</b>							
4215	- LIGHT 1	41 29 48 N 81 43 42 W	<b>Q G</b>	31 9	5	SG on post.	Light visible from 255° to 200°.
4220	- LIGHT 2		<b>FI R</b> 2.5s	30 9	4	TR on post.	
4225	- JUNCTION LIGHT		<b>Iso</b> 6s	21 6	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					TR on triangular tower.	
4232	CLEVELAND HARBOR WEST BASIN CHANNEL LIGHT 7	41 29 48 N 81 43 36 W	<b>FI G</b> 2.5s	31 9	4	SG on post.	Light visible from 210° to 070°.
4233	CLEVELAND HARBOR WEST CHANNEL BASIN LIGHT 8		<b>FI R</b> 6s	31 9	3	TR on post.	Light visible from 210° to 100°.
<b>Cuyahoga River</b>							
4240	- ABUTMENT LIGHT	41 28 48 N 81 40 30 W	<b>F R</b>		14 4		Private aid.
<b>MOSS POINT TO VERMILLION (Chart 14826)</b>							
4245	ROCKY RIVER LIGHT 1	41 29 30 N 81 50 18 W	<b>FI G</b> 2.5s	35 11	6	SG on white cylindrical tower with green band.	
4250	ROCKY RIVER BREAKWATER LIGHT	41 29 24 N 81 50 11 W	<b>FI Y</b> 4s	28 9	6	NY on post.	
4255	BRADSTREET LANDING DOCK LIGHT	41 29 06 N 81 52 00 W	<b>FI G</b> 6s	36 11		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
4256	CASHELMARA JETTY LIGHT	41 29 00 N 81 52 42 W	<b>Q Y</b>	20 6		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
4260	<i>Hickory Stick Lighted Buoy 8</i>	41 32 18 N 82 06 16 W	<b>Q W</b>				Maintained from Apr. 15 to Oct. 15. Private.
<b>Avon Lake</b>							
<i>Launch Basin aids maintained from Apr. 1 to Nov. 1.</i>							
4270	- INTAKE BREAKWATER LIGHT	41 30 30 N 82 03 18 W	<b>FI W</b> 2.5s	12 4		NB on pedestal.	Private aid.
4274	- LAUNCH BASIN LIGHT 1	41 30 18 N 83 03 36 W	<b>FI G</b> 4s	25 8		SG on post.	Private aid.
4275	- LAUNCH BASIN LIGHT 2	41 30 18 N 82 03 42 W	<b>FI R</b> 2.5s	25 8		TR on post.	Private aid.
4280	- LAUNCH BASIN BREAKWATER LIGHT		<b>Q W</b>	27 8		NW on post worded DANGER.	Private aid.

# Section 4

## Lake Erie

### Lorain Harbor to Toledo Harbor

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>LORAIN HARBOR (Chart 14841)</b>							
<b>Lorain Harbor</b>							
4320	Lorain Harbor Light	41 28 52 N 82 11 43 W	FI W 6s	60 18	12	On tower.	HORN: 1 blast ev 30s (3s bl-27s si). Operates from Apr. 15 to Nov. 15. Operates by keying mike 5 times on channel 79 VHF-FM
4323	- DETACHED BREAKWATER MIDDLE LIGHT		FI G 4s	20 6	5	On post.	
4325	- DETACHED BREAKWATER EAST LIGHT		Q Y	25 8	4	NY on post.	
4330	- LIGHT 1		FI G 2.5s	30 9	5	SG on post. 27	Higher intensity lakeward.
4335	- LIGHT 2	41 28 36 N 82 11 24 W	FI R 4s	58 18	7	Square tower on south corner of square building.	
4340	- Buoy 3					Green can.	
4345	- Lorain Harbor Lighted Buoy 5	41 28 31 N 82 11 03 W	FI G 4s		4	Green.	Replaced by can from Nov. 14 to Apr. 15.
4350	- LIGHT 6		FI R 6s	32 10	5	TR on post.	
4355	- LIGHT 7		FI G 4s	32 10	4	SG on post.	
4360	- INNER HARBOR DETACHED BREAKWATER LIGHT		FI Y 2.5s	32 10	4	NY on post.	
4365	- EAST BREAKWATER MIDDLE LIGHT		FI Y 4s	25 8	8	NY on post.	
4370	- Inner Harbor Daybeacon 1			25 8		SG on post.	
4375	- Inner Harbor Daybeacon 2			25 8		TR on post.	
4380	- JUNCTION LIGHT		FI (2+1) G 6s	25 8	6	JG on post.	
4385	U.S. STEEL CORPORATION MOORING CELL LIGHT		Q R	17 5		Sheet piling mooring cell.	Private aid.
4390	LAKEVIEW PARK WEST LIGHT	41 27 48 N 82 11 54 W	FI Y 2.5s	30 9	4	NY on post.	
4395	LAKEVIEW PARK EAST LIGHT	41 27 54 N 82 11 42 W	FI Y 4s	30 9	4	NY on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>MOSS POINT TO VERMILLION (Chart 14826)</b>							
<b>Beaver Creek</b>							
<i>Lights maintained from May 1 to Oct. 31.</i>							
4410	- ENTRANCE LIGHT 1	41 26 16 N 82 15 09 W	<b>F G</b>	25 <b>8</b>		SG on lighthouse.	Private aid.
4415	- ENTRANCE LIGHT 2	41 26 15 N 82 15 11 W	<b>F R</b>	15 <b>5</b>		TR on post.	Private aid.
4420	- ENTRANCE LIGHT 4		<b>FI R 2.5s</b>	15 <b>5</b>		TR on post.	Private aid.
4425	- ENTRANCE LIGHT 5		<b>F G</b>	15 <b>5</b>		SG on post.	Private aid.
4426	- ENTRANCE LIGHT 6		<b>F R</b>	15 <b>5</b>		TR on post.	Private aid.
4429	- WATER TOWER LIGHT	41 25 18 N 82 21 30 W	<b>FI W 4s</b>	191 <b>58</b>		White, single-pedestal watersphere. 150	Private aid.
<b>Vermilion</b>							
4430	- DETACHED BREAKWATER LIGHT A		<b>Q W</b>	25 <b>8</b>	4	NB on post.	
4435	- DETACHED BREAKWATER LIGHT B		<b>FI W 6s</b>	30 <b>9</b>	4	NB on post.	
4440	- DETACHED BREAKWATER LIGHT C		<b>Q W</b>	25 <b>8</b>	4	NB on post.	
4445	- EAST PIERHEAD LIGHT 1		<b>FI G 4s</b>	22 <b>7</b>	4	SG on post.	
4450	- WEST PIERHEAD LIGHT 2	41 25 42 N 82 21 54 W	<b>FI R 4s</b>	27 <b>8</b>	4	TR on post.	
4451	VERMILLION MUSEUM LIGHTHOUSE	41 25 30 N 82 22 00 W	<b>F R</b>	35 <b>11</b>		White conical tower.	Private aid.
4455	BEACHWOOD VILLA LIGHT 1	41 23 18 N 82 31 24 W	<b>F G</b>	15 <b>5</b>		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
4460	BEACHWOOD VILLA LIGHT 2		<b>F R</b>	15 <b>5</b>		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
<b>HURON HARBOR (Chart 14843)</b>							
<b>Huron Harbor</b>							
4475	<b>Huron Harbor Light</b>	41 24 17 N 82 32 38 W	<b>Iso R 6s</b>	80 <b>24</b>	12	Square pyramidal tower. 72	HORN: 2 blasts ev 30s (2s bl- 2s si-2s bl-24s si). Operates from Apr. 1 to Nov. 1. Operates by keying the mike 5 times on VHF-FM Ch. 79.
4485	- Entrance Lighted Buoy 1	41 24 32 N 82 32 14 W	<b>FI G 6s</b>		4	Green.	Replaced by can from Dec. 1 to Apr. 14.
4490	- Entrance Buoy 2					Red nun.	
4495	- Entrance Buoy 3					Green can.	
4500	- LIGHT 5		<b>FI G 4s</b>	25 <b>8</b>	4	SG on post.	
4505	- LIGHT 8		<b>FI R 4s</b>	27 <b>8</b>	5	TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
4510	- LIGHT 7	41 23 54 N 82 32 54 W	<b>FI G</b> 2.5s	25 8	4	SG on post.	
4515	HURON RIVER MOORING BASIN NORTH LIGHT		<b>F R</b>	15 5		On pile.	Maintained from May 1 to Oct. 1. Private aid.
4520	HURON RIVER MOORING BASIN SOUTH LIGHT		<b>F G</b>	15 5		On pile.	Maintained from May 1 to Oct. 1. Private aid.
<b>WEST END OF LAKE ERIE (Chart 14830)</b>							
4525	SAWMILL CREEK ENTRANCE EAST LIGHT	41 25 00 N 82 35 36 W	<b>F G</b>	20 6		Pole on seawall.	Maintained from May 1 to Nov. 1. Private aid.
4530	SAWMILL CREEK ENTRANCE WEST LIGHT	41 25 06 N 82 35 42 W	<b>F R</b>	20 6		Pole on seawall.	Maintained from May 1 to Nov. 1. Private aid.
<b>Point Retreat Marina</b>							
4540	<i>City of Concord Lighted Buoy 7</i>	41 32 44 N 82 32 49 W					Maintained from Apr. 15 to Oct. 15. Private.
<b>SANDUSKY HARBOR (Chart 14845)</b>							
<b>Sandusky Harbor</b>							
4560	- Breakwater Light	41 30 00 N 82 42 30 W	<b>FI W</b> 6s	30 9	12	White cylindrical tower with green band.	HORN: Operates from Apr. 1 to Dec. 1. 1 blast ev 30s (3s bl-27s si). Key Ch. 79 five times to energize fog signal.
<b>Moseley Channel</b>							
4570	- RANGE FRONT LIGHT	41 29 12 N 82 42 12 W	<b>Q G</b>	32 10		KRW on white cylindrical tower.	Higher intensity on range line.
4575	- RANGE REAR LIGHT 2,625 feet, 237° from front light.		<b>Iso G</b> 6s	66 20		KRW on white cylindrical tower.	Higher intensity on range line.
4580	- <i>Lighted Bell Buoy 1</i>	41 30 20 N 82 39 46 W	<b>FI G</b> 4s		4	Green.	Maintained from Apr. 14 to Dec. 1.
4585	- <i>Lighted Buoy 2</i>	41 30 24 N 82 39 49 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 14 to Dec. 1.
4595	- <i>Moseley Channel Lighted Buoy 4</i>	41 30 02 N 82 40 32 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4600	- <i>Lighted Buoy 5</i>		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 14 to Dec. 14.
4605	- <i>Lighted Buoy 6</i>	41 29 44 N 82 41 09 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 14.
4610	- Buoy 8					Red nun.	
4615	- <i>Lighted Buoy 9</i>		<b>Q G</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
4620	- <i>Lighted Buoy 10</i>		<b>FI R</b> 2.5s		5	Red.	Replaced by nun from Dec. 14 to Apr. 14.
<b>Sandusky Straight Channel</b>							
4625	- RANGE FRONT LIGHT	41 29 30 N 82 41 48 W	<b>Q R</b>	27 8		KRW on white cylindrical tower.	Higher intensity on range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
4630	- RANGE REAR LIGHT 1,500 feet, 017° from front light.		<b>Iso R</b> 6s	66 20		KRW on white cylindrical tower.	Higher intensity on range line.
4635	- <i>Lighted Buoy 11</i>		<b>Q G</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
4640	- <i>Lighted Buoy 12</i>		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
4645	CEDAR POINT WATER INTAKE LIGHT	41 29 00 N 82 41 36 W	<b>FI Y</b> 4s	20 6		NY on green post.	Maintained from Apr. 1 to Dec. 1. Private aid.
4650	- <i>Lighted Buoy 13</i>		<b>FI G</b> 4s		5	Green.	Replaced by can from Dec. 14 to Apr. 14.
4655	- <i>Lighted Buoy 14</i>		<b>FI R</b> 2.5s		5	Red.	Replaced by nun from Dec. 14 to Apr. 14.
4660	<i>Sandusky Exit Channel Junction Lighted Buoy E</i>		<b>FI (2+1) R</b> 6s		5	Red and green bands.	Replaced by nun from Dec. 14 to Apr. 14.
4665	- Buoy 15					Green can.	
4670	- <i>Lighted Buoy 16</i>		<b>FI R</b> 2.5s		5	Red.	Replaced by nun from Dec. 14 to Apr. 14.
<b>Sandusky Dock Channel</b>							
4675	- <i>Lighted Buoy 18</i>		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
4676	DOCK OF THE BAY MARINA ENTRANCE LIGHT	41 27 36 N 82 42 42 W	<b>F R</b>	18 5		TR on white post.	Maintained from Apr. 7 to Dec. 1. Private aid.
4677	DOCK OF THE BAY MARINA EAST BREAKWATER LIGHT		<b>F W</b>	18 5		On grey post.	Maintained from Apr. 7 to Dec. 1. Private aid.
4678	DOCK OF THE BAY MARINA WEST BREAKWATER LIGHT		<b>F W</b>	18 5		On grey post.	Maintained from Apr. 7 to Dec. 1. Private aid.
4680	- <i>Lighted Buoy 20</i>		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
4685	- LIGHT 21		<b>FI G</b> 4s	19 6	6	SG on pile.	
4690	- <i>Lighted Buoy 23</i>		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
4695	- <i>Lighted Buoy 24</i>		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
4700	Sandusky Turning Basin Buoy 25					Green can.	
4705	SANDUSKY HARBOR TURNING BASIN LIGHT		<b>FI W</b> 2.5s	20 6	6	NR on post.	
<b>Sandusky Bay Exit Channel</b>							
4710	- Buoy 9					Green can.	
4715	- <i>Lighted Buoy 7</i>		<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
4720	- Buoy 8					Red nun.	
4725	- RANGE FRONT LIGHT	41 28 36 N 82 41 48 W	<b>Q G</b>	33 10	9	KRW on skeleton tower.	Higher intensity on rangeline only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
4730	- RANGE REAR LIGHT	41 28 48 N 82 41 18 W	Iso G 6s	53 16	9	KRW on skeleton tower.	Visible on range line only.
4735	- RANGE REAR PASSING LIGHT		FI Y 4s				
4740	- Lighted Buoy 6		FI R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
4745	- Lighted Buoy 5		FI G 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
4750	- Lighted Buoy 4		FI R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
4755	- Lighted Buoy 3		FI G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
4760	- Lighted Buoy 2		FI R 2.5s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
<b>Cedar Point Marina</b>							
4765	- ENTRANCE LIGHT 1		F G	15 5		SG on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
4770	- ENTRANCE LIGHT 2		F R	15 5		TR on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
4775	- BREAKWATER LIGHT		F W	15 5		NW on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
4780	- SOUTH BASIN LIGHT 2		FI R 2.5s	22 7		TR on post.	Maintained from Apr. 1 to Nov. 15. Private aid.
4785	- SOUTH BASIN LIGHT 1		FI G 2.5s	22 7		SG on post.	Maintained from Apr. 1 to Nov. 15. Private aid.
<b>Sandusky Harbor</b>							
4790	SADLER SAILING BASIN ENTRANCE LIGHT 1	41 27 42 N 82 41 54 W	F G	10 3		On post.	Maintained from Apr. 15 to Oct. 15. Private aid.
4795	SADLER SAILING BASIN ENTRANCE LIGHT 2		F R	10 3		On post.	Maintained from Apr. 15 to Oct. 15. Private aid.
4800	SANDUSKY SLUDGE BASIN LIGHT		Q R	13 4		On white post.	Maintained from Apr. 15 to Oct. 15. Private aid.
4805	EAST COVE ENTRANCE LIGHT 1	41 27 36 N 82 41 54 W	F G	7 2		On spar on jetty.	Maintained from Apr. 15 to Oct. 15. Private aid.
4806	EAST COVE ENTRANCE LIGHT 2		F R	15 5		On pole.	Maintained from Apr. 15 to Oct. 15. Private aid.
4807	EAST COVE ENTRANCE LIGHT 3		F G	15 5		On pole.	Maintained from Apr. 15 to Oct. 15. Private aid.
4810	CAUSEWAY LEADING LIGHT		F G	5 2		On black pile.	Visible from 037.25° to 157.25°. 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
<b>LAKE ERIE</b>							
<b>Harbor Development Channel</b>							
<i>Aids to navigation maintained from May 1 to Nov. 1.</i>							
4815	- Lighted Buoy 1		<b>FI G</b> 4s			Green.	Private aid.
4820	- Lighted Buoy 2		<b>FI R</b> 4s			Red.	Private aid.
4825	- Lighted Buoy 3		<b>FI G</b> 4s			Green.	Private aid.
4830	- Lighted Buoy 4		<b>FI R</b> 4s			Red.	Private aid.
4835	- Lighted Buoy 5		<b>Q G</b>			Green.	Private aid.
4840	- Lighted Buoy 6		<b>Q R</b>			Red.	Private aid.
4845	- Lighted Buoy 7		<b>FI G</b> 4s			Green.	Private aid.
4850	- Lighted Buoy 8		<b>FI R</b> 4s			Red.	Private aid.
4855	- Lighted Buoy 9		<b>FI G</b> 4s			Green.	Private aid.
4860	- Lighted Buoy 10		<b>FI R</b> 4s			Red.	Private aid.
4865	- Lighted Buoy 11		<b>FI G</b> 4s			Green.	Private aid.
4870	- Lighted Buoy 12		<b>FI R</b> 4s			Red.	Private aid.
4875	- Lighted Buoy 13		<b>FI G</b> 4s			Green.	Private aid.
4880	- Lighted Buoy 14		<b>FI R</b> 4s			Red.	Private aid.
4885	- Lighted Buoy 15		<b>Q G</b>			Green.	Private aid.
4890	- Lighted Buoy 16		<b>Q R</b>			Red.	Private aid.
4895	- Lighted Buoy 17		<b>FI G</b> 4s			Green.	Private aid.
4900	- Lighted Buoy 18		<b>FI R</b> 4s			Red.	Private aid.
4905	- Lighted Buoy 19		<b>Q G</b>			Green.	Private aid.
4910	- Lighted Buoy 20		<b>Q R</b>			Red.	Private aid.
4915	- Lighted Buoy 21		<b>FI G</b> 4s			Green.	Private aid.
4920	- Lighted Buoy 22		<b>FI R</b> 4s			Red.	Private aid.
4925	- Lighted Buoy 23		<b>FI G</b> 4s			Green.	Private aid.
4930	- Lighted Buoy 24		<b>FI R</b> 4s			Red.	Private aid.
4935	- Lighted Buoy 25		<b>FI G</b> 4s			Green.	Private aid.
4940	- Lighted Buoy 26		<b>FI R</b> 4s			Red.	Private aid.
<b>Lyman Harbor</b>							
4945	- Light	41 27 19 N 82 41 02 W	<b>FI W</b> 4s	43 13		Steel frame lighthouse red with yellow trim and worded LYMAN in black.	Private aid.
4946	- Light 1	41 27 18 N 82 41 00 W	<b>FI G</b> 2s	10 3		SG on end of break wall.	Private aid.
4947	- Light 2	41 27 19 N 82 41 02 W	<b>FI R</b> 2s	6 2		TR on end of break wall.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>Harbor Development Channel</b>							
4950	BATTERY PARK MARINA SOUTH ENTRANCE LIGHT	41 27 48 N 82 42 06 W	<b>F G</b>	20 6		On post.	Maintained from May 1 to Oct. 31. Private aid.
4955	BATTERY PARK MARINA NORTH ENTRANCE LIGHT		<b>F R</b>	20 6		On post.	Maintained from May 1 to Oct. 31. Private aid.
4960	SANDUSKY YACHT CLUB LIGHT 1	41 27 48 N 82 42 24 W	<b>Q G</b>	23 7		SG on post.	Maintained from Apr. 15 to Dec. 15. Private aid.
4965	SANDUSKY YACHT CLUB LIGHT 2		<b>Q R</b>	23 7		TR on post.	Maintained from Apr. 15 to Dec. 15. Private aid.
<b>ISLANDS IN LAKE ERIE (Chart 14844)</b>							
<b>West End Sandusky Bay</b>							
4970	DANBURY BREAKWATER LIGHT	41 30 18 N 82 45 30 W	<b>FI G 4s</b>	23 7		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
4975	COMMODORE BAY MARINA ENTRANCE LIGHT 1	41 30 06 N 82 46 24 W	<b>F G</b>			SG on post.	Maintained from May 1 to Nov. 1. Private aid.
4980	COMMODORE BAY MARINA ENTRANCE LIGHT 2		<b>F R</b>			TR on post.	Maintained from May 1 to Nov. 1. Private aid.
4989	Cove on the Bay Entrance Light		<b>FI R 4s</b>	7 2		On single pole.	Private aid.
<b>Sandusky Bay Channel</b>							
4990	- TRANSMISSION LINE LIGHT A	41 29 06 N 82 49 36 W	<b>Q W</b>	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 00 N 82 50 00 W				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 12 N 82 50 00 W				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 N 82 50 00 W				White can with orange bands and diamond worded HAZARD.	Maintained from May 1 to Oct. 15. Private aid.
5010	- TRANSMISSION LINE LIGHT B	41 29 00 N 82 49 36 W	<b>Q W</b>	15 5		NW worded DANGER on concrete pier.	Maintained from May 1 to Dec. 1. Private aid.
<b>SOUTH SHORE OF LAKE ERIE (Chart 14842)</b>							
<b>West End Sandusky Bay</b>							
<b>Sandusky Bay Channel</b>							
5020	Willow Point Buoy A	41 26 42 N 82 53 12 W				White with orange bands.	Maintained from May 15 to Oct. 15. Private aid.
5025	Willow Point Buoy B	41 26 42 N 82 53 24 W				White with orange bands.	Maintained from May 15 to Oct. 15. Private aid.
5030	Willow Point Buoy C	41 26 30 N 82 53 30 W				White with orange bands.	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
<b>LAKE ERIE</b>							
5056	Muddy Creek Bay Buoy 1	41 27 21 N 82 58 56 W				Green can.	Maintained from May 1 to Nov. 1.
5057	Muddy Creek Bay Buoy 2	41 27 29 N 82 59 00 W				Red nun.	Maintained from May 1 to Nov. 1.
<b>Muddy Creek</b>							
5065	Muddy Creek Bay Buoy 6	41 27 26 N 82 59 14 W				Red nun.	Maintained from May 1 to Nov. 1.
5070	Muddy Creek Bay Buoy 9	41 27 14 N 82 59 24 W				Green can.	Maintained from May 1 to Nov. 1.
5085	SQUAW ISLAND LIGHT 12		<b>F I R 4s</b>	25 8	6	TR on post.	
<b>Sandusky River</b>							
<i>Buoys maintained from May 1 to Oct. 14. Due to silting, buoys may be relocated without prior notice.</i>							
5090	- Daybeacon 13					SG on pile.	
5095	- Buoy 14					Red nun.	
5096	- Daybeacon 15					SG on pile.	
5100	- Daybeacon 17					SG on pile.	
5102	- Buoy 18					Red nun.	
5110	- Buoy 21					Green can.	
5111	- Buoy 22					Red nun.	
5115	- Buoy 23					Green can.	
5120	- Buoy 24					Red nun.	
5129	- Buoy 26					Red nun.	
5133	- Buoy 28					Red nun.	
5137	- Buoy 30					Red nun.	
5141	- Buoy 32					Red nun.	
5145	- Buoy 34					Red nun.	
5149	- Buoy 36					Red nun.	
5153	- Buoy 37					Green can.	
5157	- Buoy 38					Red nun.	
5161	- Buoy 40					Red nun.	
5163	- Buoy 42					Red nun.	
5166	- Buoy 44					Red nun.	
5169	- Buoy 46					Red nun.	
<b>South Passage to Maumee Bay</b>							
<b>Bay Point</b>							
5170	<i>Bay Point Shoal Lighted Buoy 2</i> Marks east side of shoal.		<b>F I R 4s</b>		4	Red.	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
<b>LAKE ERIE</b>							
<b>Bay Point State Park Hazard</b>							
<i>Buoys maintained from Apr. 15 to Oct. 15. Due to shifting sandbar, buoys may be relocated without prior notice.</i>							
5175	- Buoy A	41 29 30 N 82 42 36 W				White with orange bands.	Private aid.
5180	- Buoy B					White with orange bands.	Private aid.
5185	- Buoy C					White with orange bands.	Private aid.
5190	- Buoy D					White with orange bands.	Private aid.
5195	- Buoy E					White with orange bands.	Private aid.
5200	- Buoy F					White with orange bands.	Private aid.
5205	- Buoy G					White with orange bands.	Private aid.
5210	- Buoy H					White with orange bands.	Private aid.
5215	BAY POINT MARINA EAST LIGHT	41 30 54 N 82 43 12 W	<b>Q W</b>	10 3		On white post.	Maintained from May 15 to Nov. 15. Private aid.
5245	BAY POINT MARINA SOUTH LIGHT	41 30 36 N 82 43 30 W	<b>Q W</b>	8 2		On white post.	Maintained from May 15 to Nov. 15. Private aid.
5246	Johnson Island Light 2	41 29 27 N 82 43 50 W	<b>FI R 4s</b>		15	On single pole.	Maintained from Apr. 1 to Oct. 31. Private aid.
5247	Johnson Island Light 1	41 29 24 N 82 43 54 W	<b>FI G 4s</b>		15	On single pole.	Maintained from Apr. 1 to Oct. 31. Private aid.
5250	<b>Marblehead Light</b>	41 32 12 N 82 42 42 W	<b>FI G 6s</b>	67 20	11	Tower. 65	
5255	PLEASANT POINTE NORTH PIER LIGHT	41 32 24 N 82 42 54 W	<b>FI W</b>	16 5		On post.	Maintained from Apr. 15 to Nov. 30. Private aid.
5260	PLEASANT POINTE SOUTHEAST PIER LIGHT	41 32 22 N 82 42 52 W	<b>F R</b>	16 5		On post.	Maintained from Apr. 15 to Nov. 30. Private aid.
5261	PLEASANT POINTE SOUTH PIER LIGHT	41 32 22 N 82 42 53 W	<b>F G</b>	16 5		On post.	Maintained from Apr. 15 to Nov. 30. Private aid.
5265	MARBLEHEAD STONE DOCK LIGHT	41 32 42 N 82 43 48 W	<b>Q W</b>	18 5		NW on post.	Maintained from Mar. 15. to Dec. 15. Private aid.
5270	LAKESIDE ASSOCIATION DOCK LIGHT		<b>2 F R</b>	10 3		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
5275	LAKESIDE MARINE INC. BREAKWATER LIGHT	41 32 48 N 82 45 18 W	<b>F G</b>	20 6		On pile.	Maintained from Mar. 15 to Dec. 15. Private aid.
5280	LAKESIDE MARINE INC. PIERHEAD LIGHT		<b>Q W</b>	35 11		White structure.	Maintained from Mar. 15 to Dec. 15. Private aid.
5282	MAZURIK FISH ACCESS LIGHT 1	41 32 36 N 82 45 55 W	<b>FI G 4s</b>			On pile.	Maintained from Mar. 15 to Nov. 21. Private aid.
5283	MAZURIK FISH ACCESS LIGHT 2	41 32 35 N 82 45 55 W	<b>FI R 4s</b>			On pile.	Maintained from Mar. 15 to Nov. 21. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
5285	SCHROCKS MARINA EAST BREAKWATER LIGHT	41 32 36 N 82 46 06 W	<b>F W</b>	20 <b>6</b>		On post.	Maintained from Apr. 20 to Oct. 20. Private aid.
5290	SCHROCKS MARINA WEST BREAKWATER LIGHT		<b>F R</b>	15 <b>5</b>		On post.	Maintained from Apr. 20 to Oct. 20. Private aid.
5300	LAKEVUE WEST ENTRANCE LIGHT (3)	41 32 26 N 82 46 22 W	<b>F R</b>	4 <b>1</b>		On post.	Maintained from May 1 to Sep. 30. Private aids.
5305	EAST HARBOR ENTRANCE LIGHT 1		<b>FI G</b> 4s	24 <b>7</b>		SG on skeleton tower.	Private aid.
5310	EAST HARBOR ENTRANCE LIGHT 2		<b>FIR</b> 4s	24 <b>7</b>		TR on skeleton tower.	Private aid.
5315	CHANNEL GROVE MARINA DOCK LIGHT	41 32 12 N 82 47 12 W	<b>FIR</b> 4s	16 <b>5</b>		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>East Harbor Smallboat Concourse</b>							
<i>Buoys maintained from May 15 to Sep. 15</i>							
5325	- Buoy 1					Green can.	Private aid.
5330	- Buoy 2					Red nun.	Private aid.
5335	- Buoy 3					Green can.	Private aid.
5340	- Buoy 4					Red nun.	Private aid.
5365	EAST HARBOR STATE PARK EAST BREAKWATER LIGHT	41 32 30 N 82 48 00 W	<b>FI W</b> 2.5s	20 <b>6</b>		NW on post worded DANGER.	Private aid.
5370	EAST HARBOR STATE PARK WEST BREAKWATER LIGHT		<b>FI W</b> 2.5s	20 <b>6</b>		NW on post worded DANGER.	Private aid.
5375	<i>Middle Harbor Shoal Lighted Buoy 1 Marks north side of shoal.</i>	41 34 12 N 82 47 42 W	<b>FI G</b> 4s		4	Green.	Maintained from Apr. 14 to Nov. 28.
<b>West Harbor</b>							
<i>Buoys maintained from May 1 to Oct. 28.</i>							
5380	- ENTRANCE CHANNEL LIGHT 1	41 34 06 N 82 48 30 W	<b>FI G</b> 4s	31 <b>9</b>	5	SG on post.	
5385	- ENTRANCE CHANNEL LIGHT 2		<b>FIR</b> 2.5s	31 <b>9</b>	5	TR on post.	
5390	- Access Channel Buoy 3					Green can.	
5395	- Access Channel Buoy 4					Red nun.	
5400	- Access Channel Lighted Buoy 5		<b>FI G</b> 4s		3	Green.	
5405	- Access Channel Lighted Buoy 6		<b>FIR</b> 4s		3	Red.	
5410	- Access Channel Lighted Buoy 8		<b>FIR</b> 4s		3	Red.	
5415	- ACCESS CHANNEL LIGHT 7	41 33 54 N 82 48 54 W	<b>FI G</b> 2.5s	25 <b>8</b>	4	SG on piles.	
5420	- Access Channel Daybeacon 9					SG on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
5425	- Access Channel Daybeacon 10					TR on pile.	
5430	- Inner Channel Daybeacon 11					SG on pile.	
5435	- Inner Channel Daybeacon 12					TR on pile.	
5440	STATE PARK MARINA ENTRANCE LIGHT 1		<b>F G</b>	10 3		SG on pyramidal structure.	Maintained from Apr. 15 to Nov. 1. Private aid.
5445	STATE PARK MARINA ENTRANCE LIGHT 2		<b>F R</b>	10 3		TR on pyramidal structure.	Maintained from Apr. 15 to Nov. 1. Private aid.
5450	ANCHOR'S AWAY MARINA ENTRANCE LIGHT 1		<b>F G</b>	10 3		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
5455	ANCHOR'S AWAY MARINA ENTRANCE LIGHT 2		<b>F R</b>	16 5		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
5460	- JUNCTION LIGHT	41 33 30 N 82 49 30 W	<b>FI (2+1) R 6s</b>	25 8	4	JR on pile.	
5465	- Inner Channel Daybeacon 13					SG on pile.	
5470	- Inner Channel Daybeacon 14					TR on pile.	
5475	- Inner Channel Daybeacon 15					SG on pile.	
5480	- Inner Channel Daybeacon 16					TR on pile.	
5485	- Inner Channel Daybeacon 17					SG on pile.	
5490	- Inner Channel Daybeacon 18					TR on pile.	
5492	Inner Channel Warning Daybeacon	41 33 00 N 82 49 54 W				NW with orange stripes on pile.	Marks end of channel.
<b>Gem Beach</b>							
5495	- SOUTH ENTRANCE LIGHT 1		<b>FI G 4s</b>	20 6		SG on pile.	Maintained from Apr. 15 to Nov. 1. Private aid.
5500	-NORTH ENTRANCE LIGHT 2		<b>FI R 4s</b>	28 9		TR on post.	Maintained from Apr. 15 to Nov. 1. Private aid.
5505	- Access Channel Daybeacon 3					SG on pile.	
5510	- Access Channel Daybeacon 5					SG on pile.	
5515	- Access Channel Daybeacon 6					TR on pile.	
<b>ISLANDS IN LAKE ERIE (Chart 14844)</b>							
5520	<i>Scott Point Shoal</i> Lighted Buoy 1 Marks northeast side of shoal.		<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 7 to May 7.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
5525	<i>Starve Island Reef Lighted Buoy 2</i> Marks west side of reef.		<b>FI R 6s</b>		4	Red.	Replaced by nun from Nov. 7 to May 7.
5530	<b>South Bass Island Light</b>	41 37 44 N 82 50 29 W	<b>FI R 6s</b>	95 29	12	NR on skeleton tower. 70	
5535	GREEN ISLAND LIGHT	41 38 42 N 82 52 06 W	<b>FI W 2.5s</b>	80 24	8	NR on skeleton tower.	Light obscured by woods from 238° to 273°.
<b>WEST END OF LAKE ERIE (Chart 14830)</b>							
5540	<i>Niagara Reef Lighted Buoy 5</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 7 to May 7.
5545	Crib Reef Buoy 7					Green can.	Maintained from Apr. 7 to Nov. 1.
5550	WEST SISTER ISLAND LIGHT	41 44 12 N 83 06 36 W	<b>FI W 4s</b>	55 17	8	Tower. 55	Light obscured by trees from 210° thru 269°, other scattered trees obscure light at intervals.
5555	<i>NOAA Lighted Weather Buoy 45005</i>	41 40 36 N 82 23 54 W	<b>FI (4) Y 20s</b>			Yellow disc-shaped hull.	Maintained from May 1 to Dec. 1.
<b>ISLANDS IN LAKE ERIE (Chart 14844)</b>							
5565	<i>Kelleys Island Shoal Lighted Buoy 1</i> Marks northeast side of shoal.		<b>FI G 4s</b>		4	Green.	Replaced by can from Nov.7 to May 7.
5567	F.H. Prince Lighted Buoy 10	41 36 14 N 82 40 31 W	<b>Q W</b>				Maintained from Apr. 15 to Oct. 15. Private.
5570	CAMP PATOS LIGHT	41 37 00 N 82 40 54 W	<b>Q W</b>	11 3		Small lighthouse structure.	Maintained from May 30 to Sep. 1. Private aid.
5575	Kelleys Island Buoy 1					Green can.	
5580	Kelleys Island Shoal Buoy 3					Green can.	
5585	KELLEYS ISLAND STATE PARK BREAKWATER LIGHT	41 37 00 N 82 42 12 W	<b>FI R 4s</b>	20 6		TR on gray tower.	Private aid.
5590	KELLSTONE CRIB LIGHT		<b>Q R</b>	7 2		On pile.	Maintained from May 1 to Dec. 20. Private aid.
5595	<i>Rock Shoal Lighted Buoy 2</i>		<b>FI R 4s</b>		4	Red.	Maintained from May 7 to Nov. 7.
5600	<i>Gull Island Shoal Lighted Buoy 4</i> Marks south side of shoal.		<b>FI R 4s</b>		4	Red.	Maintained from May 7 to Nov. 7.
5615	<i>Middle Bass Island East Shoal Lighted Bell Buoy 1</i> Marks east side of shoal.		<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 7 to May 7.
<b>North Bass Island</b>							
5620	- Shoal Buoy 2	41 42 37 N 82 51 28 W				Red nun.	Maintained from May 7 to Nov. 7.
5625	- <i>Lighted Buoy 3</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 7 to May 7.
5630	- Buoy 4	41 44 06 N 82 48 36 W				Red nun.	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
<b>LAKE ERIE</b>							
5635	- Lighted Bell Buoy 6		<b>FI R</b> 4s		4	Red.	Maintained from May 7 to Nov. 7.
<b>ISLANDS IN LAKE ERIE (Chart 14844)</b>							
5650	BALLAST ISLAND LIGHT	41 40 42 N 82 47 00 W	<b>FI W</b> 4s	92 28	8	NR on skeleton tower. 67	Obscured from 014° to 070°.
5655	Ballast Island Channel Lighted Buoy 5	41 40 16 N 82 46 54 W	<b>FI G</b> 2.5s		4	Green.	Maintained from May 7 to Nov. 7.
5660	Ballast Island Channel Buoy 6					Red nun.	
5665	Ballast Island Channel Buoy 7					Green can.	
5670	<b>Perry Memorial Monument Light</b>	41 39 12 N 82 48 36 W	<b>Iso W</b> 6s	335 102	15	On roof of monument.	
<b>Put-In-Bay</b>							
<i>Buoys maintained from May 21 to Nov. 1.</i>							
5675	- Shoal Buoy 1 Marks northwest side of shoal.					Green can.	Maintained year round.
5680	- Channel Lighted Buoy 2	41 39 30 N 82 49 06 W	<b>FI R</b> 2.5s		4	Red.	
5685	- Channel Buoy 3					Green can.	
5690	- Channel Lighted Buoy 4		<b>FI R</b> 4s		4	Red.	
5695	- Channel Buoy 5					Green can.	
5705	- Channel Buoy 6					Red nun.	
5710	- Channel Buoy 8					Red nun.	
5715	- Channel Buoy 10					Red nun.	
5716	- East Lighted Float	41 39 30 N 82 48 54 W	<b>Q Y</b>			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 30 N 82 49 06 W	<b>Q Y</b>			Three 8 foot boards marked NO WAKE, on a wood raft.	Maintained from May 1 to Oct. 15. Private aid.
<b>Miller Channel</b>							
<i>Buoys maintained from May 1 to Nov. 1.</i>							
5720	- Entrance Buoy 1	41 39 18 N 82 49 24 W				Green can.	Private aid.
5725	- Entrance Buoy 2					Red nun.	Private aid.
5730	- Entrance Buoy 3					Green can.	Private aid.
5735	- Entrance Buoy 4					Red nun.	Private aid.
5736	- Entrance Buoy 6					Red nun.	Private aid.
5745	Oak Point Reef Cut Buoy 1					Green can.	Maintained from Apr. 15 to Nov. 15. Private aid.
5750	Oak Point Reef Cut Buoy 2					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
<b>LAKE ERIE</b>							
<b>Put-In-Bay Anchorage</b>							
<i>Buoys maintained from May 1 to Nov. 1.</i>							
5754	- Buoy A	41 39 30 N 82 49 30 W				Yellow can.	Private aid.
5755	- Buoy B					Yellow can.	Private aid.
5760	- Buoy C					Yellow can.	Private aid.
5765	- Buoy D					Yellow can.	Private aid.
5770	- Buoy E					Yellow can.	Private aid.
5775	<i>Peach Orchard Point Lighted Buoy 2</i>		<b>F I R</b> 4s		4	Red.	Maintained from Apr. 21 to Oct. 21.
<b>WEST END OF LAKE ERIE (Chart 14830)</b>							
<b>South Side</b>							
<b>Erie Proving Ground</b>							
5780	- Buoy A	41 41 30 N 83 07 33 W				Yellow can.	
5785	- Buoy B					Yellow can.	
5790	- Buoy C					Yellow can.	
5795	- Buoy D					Yellow can.	
5800	- Buoy E					Yellow can.	
5805	- Buoy F	41 35 40 N 82 54 54 W				Yellow can.	
5810	- Buoy G	41 34 36 N 82 56 44 W				Yellow can.	
5815	- Buoy H	41 33 37 N 82 58 41 W				Yellow can.	
5820	- Buoy J	41 36 00 N 83 03 25 W				Yellow can.	
5825	- Buoy K	41 37 40 N 83 04 53 W				Yellow can.	
5830	- Buoy L	41 39 53 N 83 06 18 W				Yellow can.	
<b>ISLANDS IN LAKE ERIE (Chart 14844)</b>							
5835	<i>Catawba Island Lighted Buoy 1</i>	41 34 36 N 82 52 06 W	<b>F I G</b> 4s		4	Green.	Maintained from May 7 to Nov. 7.
5840	CATAWBA STATE PARK PIER LIGHT		<b>F I G</b> 2.5s	15 5		Skeleton tower.	Maintained from Apr. 1 to Nov. 15. Private aid.
5845	CATAWBA CLIFFS HARBOR LIGHT	41 34 18 N 82 51 18 W	<b>F R</b>	12 4		White triangular structure.	Maintained from Apr. 1 to Nov. 1. Private aid.
5846	CATAWBA ISLAND MARINA SOUTH LIGHT 1	41 33 42 N 82 51 12 W	<b>Q G</b>	10 3		SG on pile.	Maintained from Apr. 15 to Nov. 15. Private aid.
5847	CATAWBA ISLAND MARINA SOUTH LIGHT 2		<b>Q R</b>	10 3		TR 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
<b>LAKE ERIE</b>							
5849.3	LEMARIN ENTRANCE LIGHT 5	41 33 33 N 82 51 10 W	<b>F G</b>	20 6		SG on concrete pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
5849.4	LEMARIN ENTRANCE LIGHT 6	41 33 32 N 82 51 11 W	<b>F R</b>	20 6		TR on concrete pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
5850	COLONY CLUB MARINA NORTH LIGHT		<b>F G</b>	10 3		White triangular structure.	Maintained from Apr. 1 to Nov. 1. Private aid.
5855	COLONY CLUB MARINA SOUTH LIGHT	41 33 12 N 82 51 24 W	<b>F R</b>	10 3		White triangular structure.	Maintained from Apr. 1 to Nov. 1. Private aid.
5857	NORTHWEST CATAWABA MARINA ENTRANCE LIGHT 1	41 32 54 N 82 51 30 W	<b>FI G 3s</b>	10 3		SG on post.	Maintained from Apr. 1 to Nov. 1. Private aid.
5858	NORTHWEST CATAWABA MARINA ENTRANCE LIGHT 2		<b>FI R 3s</b>	10 3		TR on post.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>WEST END OF LAKE ERIE (Chart 14846)</b>							
<b>Port Clinton</b>							
5860	- Intake Crib Lighted Buoy	41 31 12 N 82 56 24 W	<b>Q W</b>			White and orange bands with orange diamond worded DANGER.	Maintained from May 15 to Nov. 15. Private aid.
5861	Port Clinton Regional Water Intake Crib Lighted Buoy	41 31 21 N 82 56 19 W	<b>FI W 4s</b>			White with orange bands and diamond worded DANGER CRIB.	Maintained from May 15 to Oct. 15. Private aid.
5865	- LIGHT 2	41 31 06 N 82 56 12 W	<b>FI (2) R 6s</b>	30 9	6	TR on post. 19	Higher intensity beam on bearing of 208°.
5870	- EAST PIERHEAD LIGHT 1		<b>FI G 6s</b>	25 8	9	SG on white pile.	
<i>Buoys maintained from May 14 to Nov. 1.</i>							
5875	- Channel Buoy 1					Green can.	
5877	- Channel Buoy 2					Red nun.	
5880	- Channel Buoy 3					Green can.	
5885	- Channel Buoy 4					Red nun.	
5890	- Channel Buoy 5					Green can.	
5895	- Channel Buoy 6					Red nun.	
5898	SPINNAKER BAY ENTRANCE LIGHT 1	41 31 30 N 82 58 06 W	<b>F G</b>	10 3		SG on post on breakwater.	Private aid.
5899	SPINNAKER BAY ENTRANCE LIGHT 2		<b>F R</b>	10 3		TR on post on breakwater.	Private aid.
<b>Lake Front Marina</b>							
5900	- ENTRANCE EAST LIGHT 1	41 31 30 N 82 58 18 W	<b>FI G 1.2s</b>	13 4		SG on pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
5905	- ENTRANCE WEST LIGHT 2	41 31 30 N 82 58 18 W	<b>FI R 1.2s</b>	13 4		TR on pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
5910	- RANGE FRONT LIGHT	41 31 30 N 82 58 24 W	<b>F Y</b>	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
<b>LAKE ERIE</b>							
5915	- RANGE REAR LIGHT 75 feet, 210° from front light.		<b>F Y</b>	49 15		On skeleton tower.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>Toussaint River</b>							
<i>Buoys maintained from May 1 to Nov. 1.</i>							
5920	- Entrance Buoy 1					Green can.	
5925	- Lighted Buoy 2	41 35 14 N 83 03 28 W	<b>F I R 4s</b>		3	Red.	
5930	- Entrance Buoy 3	41 35 13 N 83 03 31 W				Green can.	
5935	- Entrance Buoy 4					Red nun.	
5940	- Entrance Buoy 5					Green can.	
5945	- Entrance Buoy 6					Red nun.	
<b>WEST END OF LAKE ERIE (Chart 14846)</b>							
5950	Davis-Bease Nuclear Power Plant Obstruction Buoy	41 36 24 N 83 06 12 W				Orange and white regulatory buoy marked SUBMERGED CRIB.	Maintained from Apr. 1 to Nov. 15. Private aid.
5951	- Buoy A	41 36 22 N 83 04 28 W				White with orange bands.	Private aid.
5951.1	- Buoy B					White with orange bands.	Private aid.
5951.2	- Buoy C					White with orange bands.	Private aid.
5951.3	- Buoy D	41 37 00 N 83 03 54 W				White with orange bands.	Private aid.
5951.4	- Buoy E					White with orange bands.	Private aid.
5951.5	- Buoy F					White with orange bands.	Private aid.
5951.6	- Buoy G					White with orange bands.	Private aid.
5951.7	- Buoy H					White with orange bands.	Private aid.
5951.8	- Buoy I					White with orange bands.	Private aid.
5951.9	- Buoy J	41 35 54 N 83 02 30 W				White with orange bands.	Private aid.
5952	- Buoy K					White with orange bands.	Private aid.
5952.1	- Buoy L					White with orange bands.	Private aid.
5952.2	- Buoy M	41 35 32 N 83 03 23 W				White with orange bands.	Private aid.
<b>Wild Wings Marina</b>							
5955	- ENTRANCE LIGHT 1	41 36 49 N 83 06 13 W	<b>F I G 2s</b>	20 6		SG on white post.	Maintained from May 1 to Nov. 1. Private aid.
5960	- ENTRANCE LIGHT 2	41 36 50 N 83 06 14 W	<b>F I R 2s</b>	20 6		TR on white post.	Maintained from May 1 to Nov. 1. Private aid.
<b>WEST END OF LAKE ERIE (Chart 14846)</b>							
5970	LONG BEACH RANGE FRONT LIGHT	41 36 54 N 83 06 48 W	<b>F G</b>	13 4		On white post.	Maintained from May 30 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
5975	LONG BEACH RANGE REAR LIGHT 147 feet, 159° from front light.		<b>F G</b>	22 7		On white post.	Maintained from May 30 to Nov. 1. Private aid.
5980	LONG BEACH ENTRANCE LIGHT		<b>F R</b>	13 4		On white post.	Maintained from May 1 to Nov. 1. Private aid.
<b>Turtle Creek</b>							
<i>Aids maintained from Apr. 1 to Nov. 15.</i>							
5996	- BREAKWATER LIGHT 2	41 37 00 N 83 07 42 W	<b>FI R 2.5s</b>	28 9		TR on pile.	Private aid.
<b>WEST END OF LAKE ERIE (Chart 14846)</b>							
6000	WARD CANAL EAST JETTY LIGHT 1		<b>FI G 2.5s</b>	22 7	4	SG on post.	
6001	WARD CANAL WEST JETTY LIGHT 2		<b>FI R 4s</b>	28 9	7	TR on post.	
<b>Cooley Canal</b>							
6005	- COOLEY CANAL BREAKWATER LIGHT 1	41 40 36 N 83 16 59 W	<b>FI G 4s</b>	30 9	4	SG on tower.	
6010	- COOLEY CANAL BREAKWATER LIGHT 2	41 40 37 N 83 17 02 W	<b>FI R 4s</b>	30 9	4	TR on tower.	
6011	- Cooley Canal Buoy 3	41 40 36 N 83 17 00 W				Green can.	Maintained from May 14 to Nov. 1.
6012	- Buoy 2	41 40 37 N 83 17 01 W				Red nun.	Maintained from May 14 to Nov. 1.
6013	- Cooley Canal Buoy 4	41 40 33 N 83 17 01 W				Green can.	Maintained from May 14 to Nov. 1.
6014	- Buoy 6	41 40 33 N 83 17 03 W				Red nun.	Maintained from May 14 to Nov. 1.
<b>Turtle Creek</b>							
6015	ANCHOR POINTE MARINA RANGE FRONT LIGHT	41 40 06 N 83 17 00 W	<b>F R</b>	21 6		On pile.	Maintained from May 15 to Nov. 15. Private aid.
6015	Front Range Light	41 40 31 N 83 17 02 W	<b>F R</b>	21 6		KRW on pipe.	Private aid.
6016	Rear Range Light - 120 feet, 190° from front light.		<b>F R</b>	42 13		KRW in Pipe.	Private aid.
6025	TOLEDO WATER WORKS INTAKE CRIB LIGHTS	41 41 58 N 83 15 33 W	<b>Q W</b>	50 15		Circular building surmounting crib.	Four (4) lights mounted on each corner of crib. Maintained from Apr. 1 to Nov. 15. Private aid.

# Section 5

## Lake Erie Toledo Harbor to Detroit River

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
<b>TOLEDO HARBOR (Chart 14847)</b>							
<b>Maumee Bay</b>							
<i>Lighted buoys maintained from Apr. 7 to Dec. 14.</i>							
6030	<b>Toledo Harbor Light</b>	41 45 42 N 83 19 42 W	<b>Iso W 6s</b>	72 22	10	Square 3-story dwelling; fog signal house attached. 70	HORN: 1 blast ev 30s (3s bl). Operates from Apr. 1 to Dec. 1.
6040	- Safe Water Lighted Buoy	41 50 08 N 83 10 11 W	<b>Mo (A) W</b>		7	Red and white stripes.	
6045	- Entrance Lighted Buoy 1	41 49 27 N 83 11 27 W	<b>Q G</b>		4	Green.	
6050	<b>- Entrance Light 2</b>	41 49 32 N 83 11 37 W	<b>FIR 2.5s</b>	44 13	12	TR on tower with red band.	RACON: M (--) BELL: 1 strike ev 30s.
6055	- Buoy 3					Green can.	
6060	- Buoy 4					Red nun.	
6065	- Lighted Buoy 5		<b>FI G 4s</b>		4	Green.	
6070	- Lighted Buoy 6		<b>FIR 4s</b>		4	Red.	
6075	- Buoy 7					Green can.	
6080	- Buoy 8					Red nun.	
6085	- LIGHT 9		<b>FI G 4s</b>	33 10	5	White cylindrical tower with green band.	
6090	- Lighted Buoy 10		<b>FIR 4s</b>		4	Red.	
6095	- Buoy 11					Green can.	
6100	- Buoy 12					Red nun.	
6105	MANHATTAN RANGE FRONT LIGHT	41 41 48 N 83 27 54 W	<b>F R</b>	24 7		KRW on post. 18	Lighted throughout 24 hours.
6110	MANHATTAN RANGE REAR LIGHT 2,930 feet, 237.4° from front light.		<b>F R</b>	105 32		KRW on storage bin on building. 101	Lighted throughout 24 hours.
6115	- Lighted Buoy 13		<b>FI G 4s</b>		4	Green.	
6120	- Lighted Buoy 14		<b>FIR 2.5s</b>		4	Red.	
6125	- Buoy 15					Green can.	
6130	- Buoy 16					Red nun.	
6135	- Lighted Buoy 17		<b>FI G 4s</b>		4	Green.	
6140	- Lighted Buoy 18		<b>FIR 4s</b>		4	Red.	
6145	- Buoy 19					Green can.	
6150	- Buoy 20					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
6155	- Lighted Buoy 21		FI G 4s		4	Green.	
6160	- Buoy 23					Green can.	
6165	- Buoy 24					Red nun.	
6170	- Lighted Buoy 25		FI G 4s		4	Green.	
6175	- Lighted Buoy 26		FI R 4s		4	Red.	
	<i>Lighted buoys maintained from Apr. 7 to Dec. 14.</i>						
6180	- Buoy 27					Green can.	
6185	- Buoy 28					Red nun.	
6190	- LIGHT 29		FI G 4s	47 14	4	SG on white cylindrical tower with green band.	
6195	- Lighted Buoy 30	41 44 25 N 83 22 25 W	FI R 4s		4	Red.	
6200	- Buoy 31					Green can.	
6205	- Buoy 32	41 44 09 N 83 22 59 W				Red nun.	
6210	- Lighted Buoy 33		FI G 4s		4	Green.	
6215	- Lighted Buoy 34	41 43 53 N 83 23 32 W	FI R 4s		4	Red.	
6220	- Buoy 35					Green can.	
6225	- Buoy 36					Red nun.	
6230	- Lighted Buoy 37	41 42 59 N 83 25 17 W	FI G 4s		4	Green.	
6235	- Lighted Buoy 38		FI R 4s		4	Red.	
6240	- Buoy 40	41 42 42 N 83 26 02 W				Red nun.	
	<b>Disposal Area</b>						
	<i>Aids maintained from Apr. 15 to Dec. 15.</i>						
6245	- LIGHT A	41 42 30 N 83 26 06 W	Q W	19 6		On dolphin.	Private aid.
6250	- LIGHT B		Q W	19 6		On dolphin.	Private aid.
	<b>Maumee Bay</b>						
6265	- Lighted Buoy 41		FI G 4s		4	Green.	Replaced by can from Nov. 21 to Apr. 7.
6270	- Buoy 42					Red nun.	
6275	- Lighted Buoy 43		FI G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
6280	- Lighted Buoy 45	41 41 57 N 83 27 27 W	FI G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 7.
6285	- Lighted Buoy 46		FI R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 7.
6290	- Lighted Buoy 48		FI 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
<b>LAKE ERIE</b>							
<b>Maumee River</b>							
6295	- Lighted Buoy 49		<b>FIG 4s</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
6300	- Lighted Buoy 50	41 41 36 N 83 28 00 W	<b>FIR 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
6305	- Buoy 52					Red nun.	
<b>Harrison Marina</b>							
6320	- Entrance Buoy 1					Green can.	Private aid.
6325	- Entrance Buoy 3					Green can.	Private aid.
6330	- Danger Buoy G					White with orange bands and diamond; can.	Private aid.
<b>Maumee River</b>							
6337	- Turning Basin Buoy 54					Red nun.	
6340	- Turning Basin Buoy 56					Red nun.	
6345	- Turning Basin Buoy 58					Red nun.	
6350	- Turning Basin Buoy 60					Red nun.	
6355	- Lighted Buoy 62		<b>FIR 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
6356	GLASS CITY MARINA LIGHT 1	41 39 28 N 83 30 53 W	<b>FIG 6s</b>			Piling.	Maintained from Apr. 15 to Oct. 15. Private.
6356.1	GLASS CITY MARINA LIGHT 2	41 39 28 N 83 30 52 W	<b>FIR 6s</b>			Piling.	Maintained from Apr. 15 to Oct. 15. Private.
6356.2	Glass City Marina Buoy 3	41 39 27 N 83 30 52 W				Green.	Maintained from Apr. 15 to Oct. 15. Private.
6356.3	Glass City Marina Buoy 5	41 39 26 N 83 30 51 W				Green.	Maintained from Apr. 15 to Oct. 15. Private.
6356.4	GLASS CITY MARINA RANGE FRONT	41 39 22 N 83 30 49 W				Red with white stripe.	Maintained from Apr. 15 to Oct. 15. Private.
6356.5	GLASS CITY MARINA RANGE REAR	41 39 21 N 83 30 49 W				Red with white stripe.	Maintained from Apr. 15 to Oct. 15. Private.
6357	Glass City Marina Buoy A	41 39 28 N 83 30 50 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private.
6357.1	Glass City Marina Buoy B	41 39 27 N 83 30 51 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private.
6357.2	Glass City Marina Buoy C	41 39 27 N 83 30 55 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private.
6357.3	Glass City Marina Buoy D	41 39 25 N 83 30 58 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private aid.
6357.4	Glass City Marina Buoy E	41 39 26 N 83 30 51 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
6357.5	Glass City Marina Buoy F	41 39 25 N 83 30 50 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private.
6357.6	Glass City Marina Buoy G	41 39 24 N 83 30 49 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private.
6357.7	Glass City Marina Buoy H	41 39 23 N 83 30 49 W				Orange/White.	Maintained from Apr. 15 to Oct. 15. Private.
6360	- Lighted Buoy 63		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
6361	- Buoy 64					Red nun.	
6362	- Buoy 65					Green can.	
6365	- Buoy 67					Green can.	
<b>Pier 75 Detached Breakwater</b>							
<i>Lights maintained from Apr. 1 to Dec. 1.</i>							
6370	- LIGHT A	41 37 35 N 83 32 41 W	<b>Q W</b>		3 1	On southeast corner of detached breakwater.	Private aid.
6375	- LIGHT B		<b>Q W</b>		3 1	On detached breakwater.	Private aid.
6380	- LIGHT C		<b>Q W</b>		3 1	On detached breakwater.	Private aid.
6385	- LIGHT D		<b>Q W</b>		3 1	On southwest corner of detached breakwater.	Private aid.
6390	- LIGHT E		<b>Q W</b>		3 1	On northeast corner of detached breakwater.	Private aid.
6395	- LIGHT F		<b>Q W</b>		3 1	On detached breakwater.	Private aid.
6400	- LIGHT G		<b>Q W</b>		3 1	On detached breakwater.	Private aid.
6405	- LIGHT H		<b>Q W</b>		3 1	On northwest corner of detached breakwater.	Private aid.
<b>WEST END OF LAKE ERIE (Chart 14846)</b>							
6410	WALBRIDGE PARK RANGE FRONT LIGHT	41 36 54 N 83 34 48 W	<b>F R</b>		10 3	Square daymark on white pile.	Maintained from May 1 to Nov. 1. Private aid.
6415	WALBRIDGE PARK RANGE REAR LIGHT 70 feet, 000.5° from front light.		<b>F R</b>		20 6	Square daymark on white pile.	Maintained from May 1 to Nov. 1. Private aid.
<i>Crib buoys maintained from Apr. 15 to Nov. 15.</i>							
6420	Corbutt Island Intake Crib Buoy J					White can with orange bands and diamond.	Private aid.
6425	Corbutt Island Intake Crib Buoy K					White can with orange bands and diamond.	Private aid.
6430	Corbutt Island Intake Crib Buoy L					White can with orange bands and diamond.	Private aid.
6435	Brookford Road Water Intake Crib Buoy M					White can with orange bands and diamond.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
6440	Brookford Road Water Intake Crib Buoy N					White can with orange bands and diamond.	Private aid.
6445	Brookford Road Water Intake Crib Buoy P					White can with orange bands and diamond.	Private aid.
6450	LUNA PIER MARINA BREAKWATER LIGHT 1	41 48 42 N 83 26 24 W	FI G 4s	15 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
6455	LUNA PIER MARINA BREAKWATER LIGHT 2	41 48 42 N 83 26 24 W	FI R 4s	15 5		On post.	Maintained from Apr. 2 to Nov. 1. Private aid.
<b>Toledo Beach Marina</b>							
Lights maintained from Apr. 15 to Oct. 15.							
6460	- RANGE FRONT LIGHT	41 49 44 N 83 24 45 W	F R			37 11	On pile. Private aid.
6465	- RANGE REAR LIGHT 860 feet, 290° from front light.	41 49 47 N 83 24 57 W	F R			47 14	On pile. Private aid.
6470	- SOUTH BREAKWATER LIGHT	41 49 40 N 83 24 33 W	Q G			10 3	On pile. Private aid.
6474	- NORTH BREAKWATER LIGHT	41 49 41 N 83 24 30 W	Q R			10 3	On pile. Private aid.
<b>WEST END OF LAKE ERIE (Chart 14846)</b>							
6480	OTTER CREEK RANGE FRONT LIGHT	41 51 00 N 83 24 00 W	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.		FI G 4s			22 7	SG on pile. Maintained from May 1 to Nov. 30. Private aid.
<b>Bolles Harbor</b>							
<i>Unlighted buoys maintained from Apr. 21 to Nov. 14.</i>							
6490	- Lighted Buoy 2		FI R 4s			4 Red.	Maintained from Apr. 1 to Dec. 1.
6495	- Buoy 4					Red nun.	
6500	- Lighted Buoy 5		FI G 2.5s			4 Green.	Maintained from Apr. 1 to Dec. 1.
6505	- Lighted Buoy 6		FI R 4s			4 Red.	Maintained from Apr. 1 to Dec. 1.
6510	- Buoy 8					Red nun.	
6515	- Buoy 9					Green can.	
6520	- Buoy 10					Red nun.	
6525	- ENTRANCE LIGHT 10A	41 52 06 N 83 22 36 W	FI (2) W 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	35 11		8 TR on post.	
6530	- Buoy 11					Green can.	
6535	- ENTRANCE LIGHT 13A		FI G 4s	25 8	5	SG on pile.	
6540	- Daybeacon 14			26 8		TR on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
6545	- ENTRANCE LIGHT 15	41 52 18 N 83 22 48 W	<b>F G</b>	31 9	7	SG on post.	
6550	- RANGE FRONT LIGHT	41 52 24 N 83 22 48 W	<b>Q W</b>	18 5		KRW on post.	
6555	- RANGE REAR LIGHT 2,355 feet, 341.5° from front light.		<b>Iso W 6s</b>	60 18		KRW on skeleton tower.	
<b>Monroe Harbor</b>							
6560	- RANGE FRONT LIGHT		<b>Iso W 6s</b>	32 10		Skeleton tower.	Lighted throughout 24 hours.
6565	- RANGE REAR LIGHT 2,250 feet, 291.8° from front light.		<b>F W</b>	80 24		Skeleton tower.	Lighted throughout 24 hours.
6570	- <i>Lighted Buoy 1</i>	41 52 31 N 83 16 52 W	<b>FI G 2.5s</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
6575	- <i>Lighted Buoy 2</i>		<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
6580	- Buoy 3					Green can.	
6585	- Buoy 4					Red nun.	
6590	- <i>Lighted Buoy 5</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
6595	- <i>Lighted Buoy 6</i>		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
6600	- Buoy 7					Green can.	
6605	- Buoy 8					Red nun.	
6610	- Buoy 9					Green can.	
<b>Sterling State Park</b>							
<i>Buoys maintained from May 1 to Sep. 30. Buoys mark remnants of an old dock.</i>							
6615	- Hazard Buoy A	41 54 12 N 83 20 00 W				White with orange bands.	Private aid.
6620	- Hazard Buoy B					White with orange bands.	Private aid.
6625	- Hazard Buoy C					White with orange bands.	Private aid.
6630	- Hazard Buoy D					White with orange bands.	Private aid.
<b>Stony Creek Channel</b>							
<i>Aids maintained from May 15 to Nov. 1.</i>							
6635	- RANGE FRONT LIGHT	41 56 36 N 83 18 12 W	<b>F R</b>	14 4		On white post.	Private aid.
6640	- RANGE REAR LIGHT 125 feet, 319° from front light.		<b>F R</b>	23 7		On red post.	Private aid.
6645	- Buoy 1	41 56 24 N 83 17 54 W				Green can.	Private aid.
6650	- Buoy 2					Red nun.	Private aid.
6655	- Buoy 3					Green can.	Private aid.
6660	- Buoy 4					Red nun.	Private aid.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
6665	- Buoy 5					Green can.	Private aid.
6670	- Buoy 6					Red nun.	Private aid.
6675	- Buoy 7					Green can.	Private aid.
6680	- Buoy 8					Red nun.	Private aid.
<b>Sandy Creek</b>							
<i>Buoys maintained from May 1 to Sep. 30.</i>							
6685	- Lighted Buoy 1	41 55 30 N 83 19 48 W	<b>FIG 2.5s</b>			Green.	Private aid.
6690	- Lighted Buoy 2		<b>FIR 2.5s</b>			Red.	Private aid.
6695	- Buoy 3					Green can.	Private aid.
6700	- Buoy 4					Red nun.	Private aid.
6705	- Buoy 5					Green can.	Private aid.
6710	- Buoy 6					Red nun.	Private aid.
6715	ENRICO PERMI POWER PLANT INTAKE LIGHTS	41 57 42 N 83 15 00 W	<b>(2) F W</b>	26 8		On white pile.	Maintained from Mar. 1 to Dec. 1. Private aid.
6716	Buoy A	41 58 26 N 83 15 20 W				White with orange bands.	Private aid.
6716.1	Buoy B	41 58 31 N 83 15 00 W				White with orange bands.	Private aid.
6716.2	Buoy C	41 58 28 N 83 14 49 W				White with orange bands.	Private aid.
6716.3	Buoy D	41 58 20 N 83 14 15 W				White with orange bands.	Private aid.
6716.4	Buoy E	41 58 12 N 83 13 42 W				White with orange bands.	Private aid.
6716.5	Buoy F	41 57 46 N 83 13 44 W				White with orange bands.	Private aid.
6716.6	Buoy G	41 57 20 N 83 13 46 W				White with orange bands.	Private aid.
6716.7	Buoy H	41 56 54 N 83 13 48 W				White with orange bands.	Private aid.
6716.8	Buoy I	41 56 54 N 83 14 23 W				White with orange bands.	Private aid.
6716.9	Buoy J	41 56 54 N 83 14 58 W				White with orange bands.	Private aid.
6717	Buoy K	41 56 54 N 83 15 11 W				White with orange bands.	Private aid.
<b>Swan Creek Entrance</b>							
6720	- Lighted Buoy 1	41 58 28 N 83 14 36 W	<b>FIG 2.5s</b>			Green can.	Private aid.
6725	- Lighted Buoy 2	41 58 30 N 83 14 34 W	<b>FIR 2.5s</b>			Red nun.	Private aid.
6730	- BUOY 3					Green can.	Private aid.
6735	- BUOY 4					Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
6736	- <i>Lighted Buoy 5</i>		<b>FI G 2.5s</b>			Green can.	Private aid.
6737	- RANGE FRONT LIGHT 6	41 58 34 N 83 14 45 W	<b>F R</b>	10 3		TR on post.	Private aid.
6738	- RANGE REAR LIGHT 80 feet, 315° from front light.		<b>F R</b>	30 9		Three-masted tower.	Private aid.
6740	- <i>Lighted Buoy 7</i>		<b>FI G 2.5s</b>			Green.	Private aid.
6741	- Daybeacon 8			10 3		TR on post.	Private aid.
6742	- Daybeacon 10			10 3		TR on post.	Private aid.
6743	- Daybeacon 12			10 3		TR on post.	Private aid.
<b>LAKE ERIE (Chart 14820)</b>							
<b>Port Colborne</b>							
6755	- OUTER LIGHT (C)		<b>F R</b>	36 11		White square tower with red upper portion. 25	Seasonal. Tower floodlighted. Light intensified over an arc of 030° SSW. Emergency light.
6760	- WEST BREAKWATER LIGHT (C)	42 52 12 N 79 16 06 W	<b>FI W 4s</b>	24 7		White circular tower. 17	Seasonal.
6765	- <b>Inner Light</b> (C)	42 52 06 N 79 15 12 W	<b>FI W 10s</b> 0.3s fl. 9.7s ec.	50 15	17	White square tower, red upper portion. 43	Seasonal.
6775	- <i>Lighted Buoy E3</i> (C)		<b>FI G 4s</b>			Green.	
6780	- EAST BREAKWATER LIGHT (C)		<b>FI G 4s</b>	35 11		White circular concrete tower with green top.	Seasonal.
6783	- <i>ODAS Lighted Buoy 45142</i>	42 44 12 N 79 17 24 W	<b>FI (5) Y 20s</b>			Yellow disc-shaped hull.	Seasonal.
6785	<b>Long Point Light</b> (C)	42 32 54 N 80 03 00 W	<b>FI W 8s</b>	97 30	25	White octagonal tower with red upper portion. 86	RACON: M (— —). Seasonal. Emergency light.
<b>WEST END OF LAKE ERIE (Chart 14830)</b>							
<b>Pelee Passage</b>							
6795	<b>Southeast Shoal Light</b> (C)	41 49 36 N 82 27 48 W	<b>FI R 10s</b>	70 21	21	White square structure with red stripes on pyramidal base. 60	RACON: K (— • —). Winter light FI W 4s. Seasonal. Emergency light.
6805	- <i>East Lighted Buoy E6</i> (C)		<b>FI R 4s</b>			Red.	Spar; winter marker. Seasonal.
6810	<i>Southeast Shoal Lighted Buoy X</i> (C)	41 48 42 N 82 27 48 W	<b>Mo (A) W</b>			Red and white stripes.	Seasonal.
6815	<i>Pelee Point Lighted Bell Buoy EP2</i> (C)	41 52 12 N 82 30 30 W	<b>FI R 4s</b>			Red.	Seasonal.
6820	<i>Grubb Reef Lighted Buoy E8</i> (C)	41 51 54 N 82 33 36 W	<b>FI R 4s</b>			Red.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ERIE</b>							
6825	- <i>Traffic Lighted Buoy P</i> (C)	41 51 48 N 82 34 30 W	<b>Mo (A) W</b>			Red and white stripes.	Seasonal.
6830	- <i>Middle Ground Lighted Buoy E9</i> (C)	41 51 24 N 82 34 48 W	<b>FI G 4s</b>			Green.	Seasonal.
6835	- <b>Light</b> (C)	41 51 12 N 82 34 54 W	<b>FI W 4s</b>	91 <b>28</b>	10	White circular tower with green upper and lower portions; on pier. 80	RACON: M (--) Winter light FI W 4s. Seasonal.
6840	- <i>Turning Lighted Buoy E10</i> (C)	41 53 12 N 82 38 42 W	<b>FI R 4s</b>			Red.	Seasonal.
6845	SCUDDER BREAKWATER LIGHT (C)	41 49 00 N 82 39 30 W	<b>FI R 4s</b>	24 <b>7</b>		White circular tower with red top.	Seasonal.
6850	SCUDDER WHARF LIGHT (C)	41 48 54 N 82 39 36 W	<b>F R</b>	30 <b>9</b>	8	On elevator.	Seasonal.
6855	SCUDDER WHARF INNER LIGHT (C)		<b>FI R 4s</b>	19 <b>6</b>	7	White circular tower with red upper portion. 12	Seasonal.
6865	<i>North Harbor Island Reef Lighted Buoy E13</i> (C)	41 51 00 N 82 51 12 W	<b>FI G 4s</b>			Green.	Seasonal.
6870	COLCHESTER REEF LIGHT Marks south side of reef. (C)	41 56 00 N 82 53 30 W	<b>FI R 4s</b>	72 <b>22</b>	6	Red skeleton tower with red rectangular daymark on two sides. 39	Seasonal.
6875	MIDDLE SISTER ISLAND LIGHT (C)	41 51 00 N 82 59 54 W	<b>FI G 4s</b>	65 <b>20</b>	6	White square skeleton tower. 57	May be obscured by trees from south-southwest approaches. Seasonal.

# Section 6

## Detroit River

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
<b>WEST END OF LAKE ERIE (Chart 14830)</b>							
<b>Detroit River Entrance</b>							
<b>East Outer Channel</b>							
<i>Buoys maintained from Apr. 1 to Dec. 21.</i>							
6885	<b>Detroit River Light</b>	42 00 00 N 83 08 30 W	<b>FI (2) W 6s</b>	55 17	10	White conical tower with black top on hexagonal top. 49	RACON: X (••••). HORN: 1 blast ev 30s (3s bl). Operates continuously.
6895	<b>- Light 1E</b>	41 54 48 N 83 06 24 W	<b>FI G 5s</b>	44 13	12	Tower on platform with green band.	RACON: O (---). HORN: 2 blasts ev 60s (3s bl-3s sl-3s bl-51s sl). Operates from Mar. 15 to Jan. 15.
6900	<b>- Lighted Buoy 2</b>	41 55 17 N 83 06 19 W	<b>Q R</b>		4	Red.	LIB; winter marker, FI R 4s.
6905	<b>- Lighted Buoy 3</b>		<b>FI G 4s</b>		4	Green.	
6910	<b>- East Outer Channel Lighted Buoy 5</b>	41 56 04 N 83 06 53 W	<b>FI G 2.5s</b>		4	Green.	Replaced by can from Dec. 21 to Apr. 01.
6915	<b>- East Outer Channel Lighted Buoy 6</b>	41 56 08 N 83 06 38 W	<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 01.
<b>DETROIT RIVER (Chart 14848)</b>							
<b>East Outer Channel</b>							
<i>Buoys maintained from Apr. 1 to Dec. 21.</i>							
6920	<b>- Lighted Buoy 7</b>		<b>FI G 4s</b>		4	Green.	
6925	<b>- Lighted Buoy 8</b>		<b>FI R 4s</b>		4	Red.	
6930	<b>- East Outer Channel Lighted Buoy 9</b>	41 57 45 N 83 07 32 W	<b>FI G 2.5s</b>		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
6935	<b>- LIGHT 10</b>	41 57 48 N 83 07 18 W	<b>FI R 2.5s</b>	44 13	5	Cylindrical tower with red band on platform.	
6940	<b>- Lighted Buoy 11</b>		<b>FI G 4s</b>		4	Green.	
6945	<b>- Lighted Buoy 12</b>		<b>FI R 4s</b>		4	Red.	
6950	<b>- East Outer Channel Lighted Buoy 13</b>	41 59 25 N 83 08 10 W	<b>FI G 2.5s</b>		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
6955	<b>- East Outer Channel Lighted Buoy 14</b>	41 59 27 N 83 07 57 W	<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
6960	<b>- Lighted Buoy 16</b>		<b>Q R</b>		4	Red.	Maintained from Mar. 28 to Dec. 21. LIB; winter marker, FI R 4s.
<b>Amherstburg Channel</b>							
6965	<b>- Lighted Buoy 23</b>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
6970	<b>- Lighted Buoy D24 (C)</b>		<b>FI R 4s</b>			Red.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
6975	- Buoy 25					Green can.	
6980	DETROIT RIVER PIER LIGHT 30D (C)	42 01 36 N 83 08 06 W	<b>Q R</b>	33 <b>10</b>		White circular with red top. 23	
6985	- Lighted Buoy 31D (C)		<b>FI G</b> 4s			Green.	Seasonal.
6990	- Lighted Buoy 32D (C)		<b>FI R</b> 4s			Red.	Seasonal.
6995	<b>Bar Point Pier Light D33</b> (C)	42 02 24 N 83 08 06 W	<b>FI G</b> 10s	46 <b>14</b>	15	White square tower.	Light obscured from 090° to 191°.
7000	BAR POINT RANGE FRONT LIGHT 49D (C)	42 04 12 N 83 07 24 W	<b>F Y</b>	27 <b>8</b>		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 2,500 feet, 013.5° from front light. (C)		<b>F Y</b>	58 <b>18</b>		Fluorescent orange triangular daymark on white circular tower with green upper portion and black vertical stripe.	Visible on range line only.
7010	- Lighted Buoy 35D (C)		<b>Q G</b>			Green.	Seasonal.
7015	- Lighted Buoy 36D (C)		<b>Q R</b>			Red.	Seasonal.
7020	HACKETT REACH RANGE FRONT LIGHT (C)	42 05 48 N 83 06 48 W	<b>F R</b>	45 <b>14</b>		Orange triangular daymark with black stripes on pile.	Visible on range line only.
7025	HACKETT REACH RANGE REAR LIGHT 994 feet, 014.9° from front light. (C)		<b>F R</b>	80 <b>24</b>		Orange triangular daymark with black stripes on white skeleton tower.	Visible on range line only.
7030	- Lighted Buoy 37D (C)	42 03 06 N 83 07 48 W	<b>FI G</b> 4s			Green.	Seasonal.
7035	- Lighted Buoy 38D (C)		<b>FI R</b> 4s			Red.	Seasonal.
7040	- Lighted Buoy 43D (C)		<b>FI G</b> 4s			Green.	Seasonal.
7045	- Lighted Buoy 44D (C)		<b>FI R</b> 4s			Red.	Seasonal.
7050	- Lighted Buoy 45D (C)	42 03 48 N 83 07 30 W	<b>FI G</b> 4s			Green.	Seasonal.
7055	- Lighted Buoy 46D (C)	42 03 48 N 83 07 30 W	<b>FI R</b> 4s			Red.	Seasonal.
7060	- Lighted Buoy 50D (C)		<b>FI R</b> 4s			Red.	Seasonal.
7070	- Lighted Buoy 52D (C)		<b>FI R</b> 4s			Red.	Seasonal.
7075	- LIGHT 53D (C)	42 05 12 N 83 07 06 W	<b>FI G</b> 4s	31 <b>9</b>		White circular tower with green top. 23	
7080	- Lighted Buoy 56D (C)		<b>Q R</b>			Red.	Seasonal.
7085	- Lighted Buoy 57D (C)		<b>Q G</b>			Green.	Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
7090	AMHERSTBURG RANGE FRONT LIGHT 65D (C)	42 06 48 N 83 07 06 W	<b>F Y</b>	27 8		Orange triangular daymark with black stripe on white circular tower with green top.	
7095	AMHERSTBURG RANGE REAR LIGHT 1,138 feet, 355.8° from front light. (C)		<b>F Y</b>	40 12		Orange inverted triangular daymark with black stripe on skeleton tower.	Visible on range line only.
7100	- Lighted Buoy 59D (C)		<b>FI G</b> 4s			Green.	Seasonal.
7105	- Lighted Buoy 60D (C)		<b>FI R</b> 4s			Red.	Seasonal.
7110	- LIGHT 61D (C)	42 06 00 N 83 07 06 W	<b>FI G</b> 4s	41 12		White circular tower with green top. 24	Visible on range line only.
7115	- Lighted Buoy 63D (C)		<b>Q G</b>			Green.	Seasonal.
<b>Limekiln Crossing Reach Channel</b>							
7120	- Lighted Buoy 64D (C)		<b>Q R</b>			Red.	Seasonal.
7125	LIMEKILN CROSSING RANGE FRONT LIGHT (C)	42 07 42 N 83 06 54 W	<b>F R</b>	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 1,185 feet, 002.9° from front light. (C)		<b>F R</b>	40 12		Orange inverted triangular daymark with black stripe on white circular mast.	Visible on range line only.
7135	- Lighted Buoy 67D (C)		<b>FI G</b> 4s			Green.	Seasonal.
7140	- Lighted Buoy 68D (C)		<b>FI R</b> 4s			Red.	Seasonal.
7145	- LIGHT 69D (C)	42 07 18 N 83 07 00 W	<b>Q G</b>	27 8		White circular tower with green top.	
<b>Ballards Reef Channel</b>							
7150	- Lighted Buoy 72D (C)		<b>Q R</b>			Red.	Seasonal.
7155	FORT MALDEN RANGE FRONT LIGHT Marks Ballards Reef Channel. (C)	42 06 54 N 83 06 42 W	<b>F R</b>	45 14		Orange triangular daymark with black vertical stripe on white circular tower. 22	Visible on range line only.
7160	FORT MALDEN RANGE REAR LIGHT 383 feet, 162.5° from front light. (C)		<b>F R</b>	76 23		Orange inverted triangular daymark with black vertical stripe on white skeleton tower. 52	Visible on range line only.
7165	GROSSE ILE SOUTH CHANNEL RANGE FRONT LIGHT	42 11 06 N 83 08 30 W	<b>F G</b>	26 8		KRW on skeleton tower.	Visible on range line only. Lighted throughout 24 hours.
7170	GROSSE ILE SOUTH CHANNEL RANGE REAR LIGHT 1,495 feet, 342.5° from front light.		<b>F G</b>	51 16		KRW on skeleton tower.	Visible on range line only. Lighted throughout 24 hours.
7175	- LIGHT 71D (C)	42 07 24 N 83 07 06 W	<b>FI G</b> 4s	33 10		White circular tower with green top. 24	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
7185	- Lighted Buoy 74D (C)		FI R 4s			Red.	Seasonal.
7190	- Lighted Buoy 76D (C)		FI R 4s			Red.	Seasonal.
7195	<b>Livingstone Channel Upper Entrance Light</b> (C)	42 08 12 N 83 07 18 W	AI WR 10s	40 12	15	White circular tower mounted on white square crib. 20	Emergency light FI (2) W 15s. HORN: (two-tone) 1 blast ev 15s (4s bl). Operates year round
7200	- Light 77D (C)	42 08 30 N 83 07 30 W	FI G 5s	37 11	10	Green stripes on the corners of a white square tower.	
7205	- Lighted Buoy 78D (C)		FI R 4s			Red.	Seasonal.
7210	- Lighted Buoy 81		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
7220	- Lighted Buoy DFB (C)	42 09 12 N 83 07 36 W	FI (2+1) R 6s			Red with green band.	Seasonal.
7225	- Lighted Buoy 85		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
7230	- Lighted Buoy 86		FI R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
7235	- Lighted Buoy 87		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
<b>Livingstone Channel</b>							
7240	- LIGHT 25		FI G 2.5s	34 10	4	SG on cylindrical tower.	
7245	- LIGHT 26		FI R 2.5s	34 10	4	TR on cylindrical tower.	
7250	- LIGHT 23		Iso G 6s	34 10	4	SG on cylindrical tower.	Higher intensity beam up and down channel.
7255	- LIGHT 24		Iso R 6s	34 10	4	TR on cylindrical tower.	Higher intensity beam up and down channel.
7260	- LIGHT 21		FI G 2.5s	34 10	4	SG on cylindrical tower.	
7265	- LIGHT DL22 (C)		FI R 4s	38 12	6	White circular tower with red top. 24	
7270	- LIGHT DL20 (C)		Iso R 2s 1s fl 1s ec.	34 10	6	White circular tower with red top. 21	
7275	- LIGHT 19		Iso G 6s	34 10	4	SG on cylindrical tower.	Higher intensity beam up and down channel.
7280	- LIGHT DL17 (C)		FI G 4s	34 10		White circular tower with green top. 21	Obscured from 010° to 175°.
7285	- LIGHT DL18 (C)		FI R 4s	34 10	6	White circular tower with red top. 21	
7290	- LIGHT DL15 (C)		Iso G 2s 1s fl 1s ec.	34 10		White circular tower with green top. 21	
7295	- LIGHT DL16 (C)		Iso R 2s 1s fl 1s ec.	34 10	6	White circular tower with red top. 21	
7300	- LIGHT DL13 (C)		FI G 4s	34 10		White circular tower with green top. 21	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
7305	- LIGHT DL14 (C)		<b>FI R</b> 4s	34 10		White circular tower with red top. 21	
7310	- Lighted Buoy DL6 (C)		<b>FI R</b> 4s			Red.	Seasonal.
7315	- Lighted Buoy DL5 (C)		<b>FI G</b> 4s			Green.	Seasonal.
7320	- Lighted Buoy DL1 (C)	42 02 30 N 83 08 12 W	<b>FI G</b> 4s			Green.	Seasonal.
<b>Detroit River Entrance</b>							
<b>West Outer Channel</b>							
7325	- Buoy 9					Green can.	
7330	- Buoy 8					Red nun.	
7335	- Buoy 7					Green can.	
7340	- Buoy 6					Red nun.	
7345	- Buoy 5					Green can.	
7350	- Buoy 4					Red nun.	
7355	- Buoy 3					Green can.	
7360	- Buoy 2					Red nun.	
7365	- Lighted Bell Buoy 1W		<b>FI G</b> 6s		4	Green.	Replaced by can from Dec. 7 to May 7.
<b>Point Mouillee</b>							
<i>Buoys maintained from Apr. 14 to Nov. 14.</i>							
7370	- Access Channel Buoy 1	42 00 12 N 83 08 42 W				Green can.	
7375	- Access Channel Buoy 2					Red nun.	
7380	- Access Channel Buoy 3					Green can.	
7385	- Access Channel Buoy 4					Red nun.	
<b>Metro Park Marina</b>							
<i>Buoys maintained from Apr. 1 to Nov. 1.</i>							
7390	South Huron Valley Outfall West Lighted Buoy	42 03 09 N 83 09 50 W	<b>Q W</b>			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 10 N 83 09 48 W	<b>Q W</b>			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 09 N 83 09 46 W	<b>Q W</b>			White with orange bands and orange diamond worded DANGER OUTFALL.	Maintained from May 1 to Nov. 1. Private aid.
7405	- Lighted Buoy 1		<b>FI G</b> 4s			Green.	Private aid.
7410	- Lighted Buoy 2		<b>FI R</b> 4s			Red.	Private aid.
7415	- Buoy 3					Green can.	Private aid.
7420	- Buoy 4					Red nun.	Private aid.
7425	- Buoy 5					Green can.	Private aid.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
7430	- Buoy 6					Red nun.	Private aid.
7435	- Buoy 7					Green can.	Private aid.
7440	- Buoy 8					Red nun.	Private aid.
7445	- RANGE FRONT LIGHT	42 03 12 N 83 11 36 W	<b>F R</b> 4s			On pile. 15	Maintained from Apr. 1 to Nov. 1. Private aid.
7450	- RANGE REAR LIGHT 100 yards, 270° from front light.		<b>F R</b>			On pile. 30	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>Hickory Island Channel</b>							
7455	- Buoy 1	42 04 24 N 83 09 42 W				Green can.	
7460	- Buoy 2					Red nun.	
7465	- Buoy 3					Green can.	Maintained from May 14 to Nov. 21.
<b>Ford Yacht Club</b>							
<i>Aids maintained from Apr. 15 to Nov. 1.</i>							
7468	- East Basin Entrance Buoy 1	42 05 14 N 83 10 13 W				Green can.	Private aid.
7469	- East Basin Entrance Buoy 2	42 05 14 N 83 10 11 W				Red nun.	Private aid.
7470	- EAST BASIN ENTRANCE LIGHT 3	42 05 20 N 83 10 11 W	<b>Q G</b>	6 2		On single post.	Private aid.
7471	-East Basin Entrance Light 4	42 05 20 N 83 10 09 W	<b>Q R</b>	6 2		On single post.	Private aid.
7472	-East Basin Range Front Light	42 05 27 N 83 10 08 W	<b>F R</b>			4ft light pipe centered on white diamond daymark.	Private aid.
7473	-East Basin Range Rear Light	42 05 28 N 83 10 08 W	<b>F R</b>			4ft light pipe centered on white diamond daymark.	Private aid.
7480	- West Basin Entrance Buoy 1	42 05 20 N 83 10 19 W				Green can.	Private aid.
7485	- West Basin Entrance Buoy 2					Red nun.	Private aid.
7490	- West Basin Entrance Light 3	42 05 24 N 83 10 17 W	<b>Q G</b>	6 2		On single post.	Private aid.
7495	- West Basin Entrance Light 4	45 05 24 N 83 10 17 W	<b>Q R</b>	6 2		On single post.	Private aid.
7500	- West Basin Range Front Light	42 05 24 N 83 10 12 W	<b>F R</b>			4 ft light pipe centered on white diamond daymark. 8	Private aid.
7505	- West Basin Range Rear Light	42 05 24 N 83 10 12 W	<b>F R</b>			4 ft light pipe centered on white diamond daymark.	Private aid.
<b>Hickory Island Channel</b>							
<i>Buoys maintained from May 14 to Nov. 21.</i>							
7550	- Buoy 4					Red nun.	
7555	- Buoy 5					Green can.	
7560	- Buoy 7					Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
7565	- Lighted Buoy 8		<b>F I R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to May 14.
7570	- Buoy 10 Marks shoal.					Red nun.	
7575	GROSSE ILE YACHT CLUB HARBOR SOUTH ENTRANCE LIGHT	42 05 18 N 83 09 00 W	<b>F I G</b> 2s	8 2		On black post.	Private aid.
7580	GROSSE ILE YACHT CLUB HARBOR NORTH ENTRANCE LIGHT		<b>F I R</b> 2s	8 2		On red post.	Maintained from May 1 to Nov. 1. Private aid.
7585	ELBA-MAR BOAT CLUB RANGE FRONT LIGHT		<b>F G</b>	10 3		Orange and black diamond daymark.	Maintained from Apr. 1 to Dec. 1. Private aid.
7590	ELBA-MAR BOAT CLUB RANGE REAR LIGHT 250 feet, 306° from front light.		<b>F G</b>	18 5		Orange and black diamond daymark.	Maintained from Apr. 1 to Dec. 1. Private aid.
7595	Elba-Mar Boat Club Entrance Buoy 1					Green can.	Private aid.
7600	Elba-Mar Boat Club Entrance Buoy 2					Red nun.	Private aid.
7605	- Buoy 12					Red nun.	
7610	- Buoy 13					Green can.	
7615	- Buoy 16					Red nun.	
7620	Powder House Island Junction Buoy					Green and red bands; can.	
7625	- Shoal Buoy					Red and green bands; nun.	Maintained year round.
<b>Powder House Island Channel</b>							
<i>Buoys maintained from May 14 to Nov. 21.</i>							
7630	- Buoy 1					Green can.	
7635	- Buoy 2					Red nun.	
7640	- Buoy 4					Red nun.	
7645	- Buoy 6					Red nun.	
7650	Stony Island Buoy 8					Red nun.	
<b>Lake Erie Metropark Boat Launch</b>							
<i>Buoys maintained from Apr. 1 to Oct. 1.</i>							
7651	- Lighted Buoy 1	42 04 42 N 83 11 24 W	<b>F I G</b> 4s			Green.	Private aid.
7651.1	- Lighted Buoy 2		<b>F I R</b> 4s			Red.	Private aid.
7651.2	- Buoy 3					Green can.	Private aid.
7651.3	- Buoy 4					Red nun.	Private aid.
7651.4	- Buoy 5					Green can.	Private aid.
7651.5	- Buoy 6					Red nun.	Private aid.
7651.6	- Buoy 7					Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
<b>Gibraltar South Harbor Channel</b>							
<i>Aids maintained from Apr. 1 to Dec. 1.</i>							
7655	- RANGE FRONT LIGHT		<b>F R</b>	7 2		On red pile.	Private aid.
7660	- RANGE REAR LIGHT 100 feet, 268° from front light.		<b>F R</b>	14 4		Red on white diamond daymark.	Private aid.
7665	- LIGHT 1		<b>FI G</b> 2.5s	10 3		On pile cluster.	Private aid.
7670	- LIGHT 2		<b>FI R</b> 2.5s	10 3		On pile cluster.	Private aid.
7671	DAYBEACON 3			8 2	3	SG on single pile.	Private aid.
7672	DAYBEACON 4			8 2	4	TR on single pile.	Private aid.
7675	- LIGHT 5		<b>Q G</b>	10 3		On pile cluster.	Private aid.
7680	- LIGHT 6		<b>Q R</b>	10 3		On pile cluster.	Private aid.
7685	- LIGHT 7		<b>Q G</b>	7 2		On pile cluster.	Private aid.
7690	- LIGHT 8		<b>Q R</b>	7 2		On pile cluster.	Private aid.
7695	- LIGHT 9		<b>Q G</b>	7 2		On pile cluster.	Private aid.
7700	- LIGHT 10		<b>Q R</b>	7 2		On pile cluster.	Private aid.
<b>Celeron Island</b>							
<i>Aids maintained from May 14 to Nov. 21.</i>							
7701	- Buoy 1					Green can.	
7703	- Buoy 3					Green can.	
<b>Gibraltar Middle Channel</b>							
<i>Aids maintained from Apr. 1 to Dec. 1.</i>							
7705	- SOUTH LIGHT		<b>FI G</b> 2.5s	10 3		On pile cluster.	Private aid.
7710	- NORTH LIGHT		<b>FI R</b> 2.5s	10 3		On pile cluster.	Private aid.
<b>Celeron Island</b>							
<i>Aids maintained from May 14 to Nov. 21.</i>							
7711	- Buoy 4					Red nun.	
7712	- Buoy 5					Green can.	
7713	- Buoy 7					Green can.	
7714	- Buoy 8					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
<b>Gibraltar North Channel</b>							
<i>Aids maintained from Apr. 1 to Dec. 1.</i>							
7715	- RANGE FRONT LIGHT	42 05 54 N 83 11 12 W	<b>F R</b>	7 2		Red on white diamond daymark on post.	Private aid.
7720	- RANGE REAR LIGHT 10 feet, 239° from front light.		<b>F R</b>	14 4		Red on white diamond daymark on pile.	Private aid.
7725	- LIGHT 1		<b>FI G 2.5s</b>	10 3		On pile cluster.	Private aid.
7730	- LIGHT 2		<b>FI R 2.5s</b>	10 3		On pile cluster.	Private aid.
<b>Fighting Island Channel</b>							
7735	- SOUTH LIGHT	42 10 24 N 83 08 06 W	<b>Iso R 6s</b>	35 11	6	TR on post.	
7740	<i>Mamajuda Shoal Junction Lighted Buoy</i>	42 10 54 N 83 08 12 W	<b>FI (2+1) G 6s</b>		4	Green and red bands.	Replaced by can from Dec. 21 to Apr. 1
7745	- Buoy 88 Marks shoal.					Red nun.	
7755	- <i>Lighted Buoy 89</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
7760	- <i>Lighted Buoy 90</i>		<b>FI R 4s</b>		4	Red.	Maintained from Apr. 1 to Dec. 21.
7765	- <i>Lighted Buoy 91</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
7770	- <i>Lighted Buoy 92</i>		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
7775	- Buoy 93	42 13 03 N 83 07 59 W				Green can.	
7780	- Buoy 94					Red nun.	
7785	GRASSY ISLAND LIGHT	42 13 24 N 83 08 00 W	<b>FI G 4s</b>	20 6	5	SG on cylindrical tower with 6 foot green band.	Higher intensity beam up and down stream.
7790	- Buoy 96					Red nun.	
7805	- <i>Lighted Buoy 97</i>		<b>FI G 4s</b>		4	Green.	Maintained from Apr. 1 to Dec. 21.
7810	- Buoy 98 Marks shoal.					Red nun.	
7815	- NORTH LIGHT (C)		<b>Iso R 4s</b>	27 8	7	White circular tower with red upper portion. 22	
7820	Grosse Ile Basin Buoy 1					Green can.	
7825	Grosse Ile Basin Buoy 3					Green can.	
7830	Grosse Ile Basin Buoy 5					Green can.	
<b>Wyandotte Channel</b>							
7835	- South Entrance Buoy 2	42 11 06 N 83 08 24 W				Red nun.	
7840	- <i>Lighted Buoy 3</i>		<b>Q G</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
7845	- Buoy 4					Red nun.	
7850	- Buoy 6					Red nun.	
7855	- Lighted Buoy 7		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 1.
7860	- Buoy 9					Green can.	
7865	Grosse Ile Spit Junction Lighted Buoy Marks shoal.		<b>FI (2+1) G 6s</b>		4	Green and red bands.	Replaced by can from Dec. 21 to Mar. 21.
7870	- Buoy 12					Red nun.	
7875	- Buoy 14					Red nun.	
7880	- Lighted Buoy 16		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Mar. 21.
7885	- Lighted Buoy 18		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Mar. 21.
7890	- Lighted Buoy 20		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Mar. 21.
7895	Mud Island Junction Lighted Buoy		<b>FI (2+1) G 6s</b>		4	Green and red bands.	Replaced by can from Dec. 14 to Mar. 21.
7900	- Buoy 21					Green can.	
7905	- Lighted Buoy 22		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Mar. 21.
7910	- Buoy 23					Green can.	
7915	- Buoy 24					Red nun.	
7920	- Lighted Buoy 25		<b>FI G 2.5s</b>		4	Green.	Replaced by can from Dec. 1 to Mar. 21.
7925	- North Junction Lighted Buoy	42 14 24 N 83 08 00 W	<b>FI (2+1) R 6s</b>		4	Red and green bands.	Replaced by nun from Dec. 1 to Mar. 21.
<b>Trenton Channel</b>							
7945	- Lighted Buoy 1	42 07 24 N 83 10 36 W	<b>Q G</b>		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
7950	- Buoy 2					Red nun.	
7955	- Buoy 3					Green can.	
7960	- Buoy 4					Red nun.	
7965	- Lighted Buoy 5		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
7970	- Buoy 6					Red nun.	
7975	- Buoy 7					Green can.	
7980	- Lighted Buoy 9		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
7985	- Lighted Buoy 10		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
7990	- Buoy 11					Green can.	
7995	- Buoy 12					Red nun.	
8000	- Lighted Buoy 13		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 21 to Mar. 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
8005	- Lighted Buoy 14		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8010	- Buoy 15					Green can.	
8015	- Buoy 16					Red nun.	
8020	- Buoy 16A					Red nun.	
8025	- Buoy 17					Green can.	
8030	- Lighted Buoy 18		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8035	- Lighted Buoy 19		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
8040	- Buoy 20					Red nun.	
8045	- Buoy 21					Green can.	
8050	- Buoy 22					Red nun.	
8055	- Lighted Buoy 23		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
8060	- Lighted Buoy 24		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8065	- Lighted Buoy 25		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
8070	- Buoy 26					Red nun.	
8075	- Lighted Buoy 28		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8080	- Lighted Buoy 29		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
8085	- Lighted Buoy 30		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
<b>Ecorse Channel</b>							
8090	- Buoy 2					Red nun.	
8095	- Buoy 4					Red nun.	
8100	- Buoy 5					Green can.	
8105	- Buoy 6					Red nun.	
8110	- Lighted Buoy 7		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 1 to Dec. 7.
<b>Above Fighting Island</b>							
8115	Fighting Island North Lighted Buoy 104D (C)	42 15 00 N 83 07 00 W	<b>FI R</b> 4s			Red.	Spar; winter marker. Seasonal.
8120	Fighting Island Anchorage Lighted Buoy DQ (C)	42 15 06 N 83 06 54 W	<b>FI Y</b> 4s			Yellow.	Seasonal.
8125	FIGHTING ISLAND NORTH ANCHORAGE LIGHT (C)	42 15 42 N 83 06 18 W	<b>FI Y</b> 4s	35 11		SY with black anchor on yellow circular tower.	Visible all around. Seasonal.
8130	GREAT LAKES STEEL BOAT CLUB SOUTH LIGHT Marks entrance to marina.		<b>F G</b>			On post.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
8135	GREAT LAKES STEEL BOAT CLUB NORTH LIGHT Marks entrance to marina.		<b>F R</b>			On post.	Private aid.
8140	<i>Great Lakes Steel Shoal Lighted Buoy 1</i>	42 15 48 N 83 06 54 W	<b>Q G</b>			Green.	CAUTION: Mariners should not pass between the buoy and the American shore. Maintained from Apr. 1 to Nov. 1. Private aid.
8145	<i>Great Lakes Steel Shoal Lighted Buoy 3</i>		<b>Q G</b>			Green.	CAUTION: Mariners should not pass between the buoy and the American shore. Maintained from Apr. 1 to Nov. 1. Private aid.
8147	Mariner's Memorial Lighthouse Lighthouse		<b>F W</b>	43 13	10	Red and White.	Private aid.
8150	DETROIT EDISON CELL LIGHT SOUTH	42 16 24 N 83 06 36 W	<b>Q W</b>	20 6		On pile.	Private aid.
8155	DETROIT EDISON CELL LIGHT NORTH	42 16 30 N 83 06 36 W	<b>Q W</b>	20 6		On pile.	Private aid.
8160	<i>Rouge River Canal Entrance Lighted Buoy 2</i>		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 7 to Apr. 1.
8165	DETROIT LIME COMPANY LIGHT	42 17 42 N 83 09 00 W	<b>Q W</b>	13 4		On pile cluster.	Private aid.
8170	<i>Detroit River Lighted Buoy D108 (C)</i>	42 18 48 N 83 04 06 W	<b>FI R 4s</b>			Red.	Seasonal.
<b>Riverfront</b>							
<i>Lights maintained from Apr. 1 to Dec. 1.</i>							
8175	- SOUTH ENTRANCE LIGHT 1	42 19 18 N 83 03 18 W	<b>FI G 2s</b>	16 5		On cellular pile.	Private aid.
8180	- SOUTH ENTRANCE LIGHT 2	42 19 24 N 83 03 18 W	<b>FI R 2s</b>	16 5		On cellular pile.	Private aid.
8185	- NORTH ENTRANCE LIGHT 1	42 19 24 N 83 03 12 W	<b>FI G 2s</b>	16 5		On cellular pile.	Private aid.
8190	- NORTH ENTRANCE LIGHT 2	42 19 24 N 83 03 06 W	<b>FI R 2s</b>	16 5		On cellular pile.	Private aid.
<b>Above Fighting Island</b>							
8195	Third Street Junction Buoy					Green and red bands; can.	
8200	Griswold Street Junction Buoy					Green and red bands; can.	
8201	Tri-Centennial State Park Entrance Light 1	42 19 56 N 83 01 32 W	<b>FI G 4s</b>		22	On single pile.	Private aid.
8202	Tri-Centennial State Park Entrance Light 2	42 19 56 N 83 01 30 W	<b>FI R 4s</b>		22	On side of Lighthouse.	Private aid.
8205	<i>Belle Isle Lower Junction Lighted Buoy</i>		<b>FI (2+1) G 6s</b>		4	Green and red bands.	Replaced by can from Dec. 21 to Apr. 1.
<b>Fleming Channel</b>							
8210	BELLE ISLE LIGHT	42 20 24 N 82 57 36 W	<b>F G</b>	30 9	7	On pile. 20	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
8215	- Lighted Buoy D110 (C)	42 20 30 N 82 57 06 W	<b>FI R</b> 4s			Red.	Seasonal.
8220	Livingstone Memorial Lighted Buoy 111		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
8225	- Lighted Buoy DPB of shoal. (C)		<b>FI (2+1) R</b> 6s			Red with green band.	Spar; winter marker. Seasonal.
8230	Belle Isle Upper Junction Lighted Buoy		<b>FI (2+1) G</b> 6s		4	Green and red bands.	Maintained from Apr. 1 to Dec. 21.
8235	PECHE ISLAND LIGHT	42 20 54 N 82 56 30 W	<b>FI R</b> 4s	44 13	7	TR on cylindrical tower.	Higher intensity beam up and down stream.
8240	<b>William Livingstone Memorial Light</b>	42 20 48 N 82 57 18 W	<b>Oc W</b> 4s	58 18	15	Pyramidal monumental structure.	Lighted throughout 24 hours.
8245	Belle Isle North Lighted Buoy 113		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
8250	Starboard Lagoon Obstruction Lighted Buoy Marks submerged barge.		<b>Q W</b>			White with orange bands and diamond.	Maintained from Apr. 1 to Nov. 1. Private aid.
8255	Pecche Island Lighted Buoy 114		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
8260	<b>Windmill Point Light</b>	42 21 30 N 82 55 48 W	<b>Iso W</b> 6s	42 13	14	Tower.	
8265	WINDMILL POINT PARK BREAKWATER OUTER LIGHT		<b>Q W</b>			On pile.	Length to breakwater is marked by 13 equally spaced fixed red lights. Private aid.
8270	WINDMILL POINT PARK BREAKWATER INNER LIGHT		<b>Q W</b>			On pile.	Private aid.
<b>Belle Isle North Channel</b>							
<b>Scott Middle Ground</b>							
<i>Buoys maintained from Apr. 1 to Nov. 14.</i>							
8280	- Lower Junction Buoy					Red and green bands; nun.	Maintained year round.
8285	SCOTT MIDDLE GROUND NORTH CHANNEL BUOY 2	42 20 15 N 83 00 19 W				Red nun.	Maintained year round.
8290	- North Channel Buoy 4					Red nun.	
8295	- North Channel Buoy 6					Red nun.	
8300	- North Channel Buoy 8					Red nun.	
8305	DETROIT BOAT CLUB LIGHT	42 20 30 N 82 59 06 W	<b>F R</b>	15 5		On pile.	Private aid.
8310	- South Channel Buoy 1					Green can.	
8315	- South Channel Buoy 3					Green can.	
8320	- South Channel Buoy 5					Green can.	
8325	- Upper Junction Buoy					Red and green bands; nun.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>DETROIT RIVER</b>							
<b>Belle Isle North Channel</b>							
8330	MEMORIAL PARK MARINA WEST ENTRANCE LIGHTS (2)	42 21 00 N 82 59 00 W	<b>F G</b>	18 5		On piles.	Private aids.
8335	MEMORIAL PARK MARINA EAST ENTRANCE LIGHTS (2)		<b>F R</b>	18 5		On piles.	Private aids.
8340	MEMORIAL PARK MARINA LIGHTS (6) Marks cable string between pilings.		<b>F R</b>	18 5		On piles.	Private aids.
8341	PORTERFIELD RAMP LIGHT		<b>F R</b>	8 2		On pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
8342	PORTERFIELD MARINA ENTRANCE LIGHT 1		<b>F G</b>	8 2		SG on pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
8343	PORTERFIELD MARINA ENTRANCE LIGHT 2		<b>F R</b>	8 2		TR on pile.	Maintained from Apr. 1 to Nov. 30. Private aid.
8345	Intake Pipe Buoy 1					Green can.	Maintained from Apr. 1 to Nov. 14.
8350	WATERWORKS INTAKE CRIB LIGHT	42 21 06 N 82 58 00 W	<b>FI W 5s</b>	40 12		Gray stone tower on pier.	Private aid.
8355	<i>Detroit Edison Lighted Buoy 1A</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 1.
8360	DETROIT EDISON BOAT CLUB ENTRANCE LIGHT 2	42 21 18 N 82 57 24 W	<b>F R</b>			TR on post.	Maintained from Apr. 1 to Oct. 1. Private aid.
8365	DETROIT EDISON BOAT CLUB ENTRANCE LIGHT 3		<b>F G</b>			SG on post.	Maintained from Apr. 1 to Oct. 1. Private aid.
8370	WATERWORKS INTAKE LAGOON LIGHT	42 21 00 N 82 57 18 W	<b>FI R 6s</b>	22 7		Red post on small house on concrete pier.	Private aid.
8375	Detroit Edison Buoy 3					Green can.	
8380	- <i>Lighted Buoy 2</i>		<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 7 to Apr. 1.
8385	- Buoy 4					Red nun.	
8390	- <i>Lighted Buoy 5</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 1.
8395	- Buoy 6					Red nun.	
8396	Grayhaven Canal Entrance Buoy 2	42 21 18 N 82 56 48 W				Red nun.	Maintained May 15 to Oct 31. Private aid.

# Section 7

## Lake St. Clair

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
<b>LAKE ST. CLAIR (Charts 14850, 14853)</b>							
<b>Lake St. Clair</b>							
<i>Lighted buoys maintained from Mar. 28 to Dec. 21.</i>							
8400	PECHE ISLAND RANGE FRONT LIGHT	42 21 36 N 82 54 24 W	<b>F W</b>	35 11		KRW on skeleton tower on round conical foundation.	Visible on range line only. RACON: G (—•)
8405	PECHE ISLAND RANGE FRONT PASSING LIGHT		<b>F W</b>	31 9	6	On same structure as Peche Island Range Front Light.	
8410	PECHE ISLAND RANGE REAR LIGHT 3,700 feet, 227.8° from front light.		<b>F W</b>	115 35		KRW on skeleton tower on white conical tower.	Visible on range line only.
8415	- LIGHT 1		<b>Q G</b>	37 11	6	SG on post.	
8420	- <i>Lighted Buoy 2</i>		<b>F I R</b> 4s		7	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8425	- Buoy 3					Green can.	
8430	- Buoy 4					Red nun.	
8435	- Buoy 5					Green can.	
8440	- Buoy 6					Red nun.	
8442	Grosse Pointe Dumping Buoy B	42 22 12 N 82 51 01 W				Yellow can.	Maintained from May 01 to Nov. 01.
8445	- <i>Lighted Buoy 7</i>	42 23 19 N 82 52 00 W	<b>F I G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
8450	- <i>Lighted Buoy 8</i>		<b>F I R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8455	- Buoy 9					Green can.	
8460	- Buoy 10					Red nun.	
8465	- Buoy 11					Green can.	
8470	- Buoy 12	42 24 05 N 82 50 38 W				Red nun.	
8472	Grosse Pointe Dumping Buoy A	42 23 25 N 82 48 52 W				Yellow can.	Maintained from May 01 to Nov. 01.
8475	- <i>Lighted Buoy 13</i>		<b>F I G</b> 4s		4	Green.	
8480	- LIGHT 14		<b>F I R</b> 4s	30 9	5	TR on post on concrete structure.	
8485	- Buoy 15					Green can.	
8490	- Buoy 16					Red nun.	
8495	- <i>Lighted Buoy 17</i>		<b>F I G</b> 4s		4	Green.	
8500	- <i>Lighted Buoy 18</i>		<b>F I R</b> 4s		4	Red.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
8505	- Buoy 19					Green can.	
8510	- Buoy 20					Red nun.	
8515	- Lighted Buoy 21		<b>FI G</b> 4s		4	Green.	
8520	- Lighted Buoy 22		<b>FI R</b> 4s		4	Red.	
8525	LAKE ST CLAIR LIGHT	42 27 55 N 82 45 15 W	<b>Iso G</b> 6s	52 16	6	White square tower on cylindrical base.	RACON: N (-•). Higher intensity beam upstream.
8530	- Lighted Buoy 24		<b>FI R</b> 2.5s		4	Red.	
8535	ST. CLAIR FLATS CANAL RANGE FRONT LIGHT	42 33 00 N 82 39 06 W	<b>F G</b>	44 13		White daymark on skeleton tower. 36	Visible on range line only. Lighted throughout 24 hours.
8540	ST. CLAIR FLATS CANAL RANGE REAR LIGHT 4,000 feet, 041° from front light.		<b>F G</b>	108 33		White daymark on pyramidal tower visible above foliage.	Visible on range line only. Lighted throughout 24 hours.
8545	- Lighted Buoy 25		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
8550	- Lighted Buoy 26		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 21 to Mar. 28.
8555	- Lighted Buoy 27		<b>FI G</b> 4s		4	Green.	
8560	- Lake St Clair Lighted Buoy 28	42 29 41 N 82 42 54 W	<b>FI R</b> 4s		4	Red.	Maintained from Mar. 28 to Dec. 21.
8565	- Lighted Buoy 29		<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 21 to Mar. 28.
8570	- Lighted Buoy 30		<b>Q R</b>		4	Red.	LIB; Winter marker, Q R.
8575	- Buoy 31	42 30 50 N 82 41 46 W				Green.	Replaced by can from Dec. 21 to Mar. 28. Ra Ref.
8580	SQUIRREL ISLAND RANGE FRONT LIGHT (C)	42 33 12 N 82 35 00 W	<b>Iso Y</b> 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 3,506 feet, 064.3° from front light. (C)		<b>F Y</b>	84 26		Orange inverted triangular daymark with black vertical stripe on white square skeleton tower. 80	Visible in line of range.
<b>St. Clair Cut-Off Channel</b>							
8590	- Preferred Channel Lighted Buoy	42 31 00 N 82 41 24 W	<b>FI (2+1) G</b> 6s		4	Green and red bands.	Replaced by can from Dec. 14 to Apr. 07.
8595	- PIER LIGHT X32/2 190 feet outside channel limit. (C)	42 30 54 N 82 41 06 W	<b>FI R</b> 4s	24 7		White circular tower with red top.	
8600	- Pier Lighted Buoy X32 (C)		<b>Q R</b>			Red.	Seasonal.
8605	- PIER LIGHT X35 190 feet outside channel limit. (C)		<b>FI G</b> 4s	33 10		White circular tower with green top. 21	
8610	- PIER LIGHT X36 190 feet outside channel limit. (C)		<b>FI R</b> 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
<b>LAKE ST. CLAIR</b>							
8615	- PIER LIGHT X39 (C)		<b>FI G</b> 4s	29 9		White square tower with green top.	
8620	- PIER LIGHT X40 190 feet outside channel limit. (C)		<b>FI R</b> 4s	26 8		White square tower with red stripes on corners.	
8625	- PIER LIGHT X43 (C)	42 32 24 N 82 37 30 W	<b>FI G</b> 4s	24 7		White square tower with green top.	
8630	- PIER LIGHT X44 190 feet outside channel limit. (C)	42 32 12 N 82 37 24 W	<b>FI R</b> 4s	24 7		White square tower with red stripes on corners. 17	
8635	- PIER LIGHT X47 (C)	42 32 48 N 82 36 18 W	<b>FI G</b> 4s	29 9		White square tower with green top.	
8640	- PIER LIGHT X48 190 feet outside channel limit. (C)	42 32 42 N 82 36 12 W	<b>FI R</b> 4s	24 7		White square tower with red stripes on corners.	
8645	HARSENS ISLAND LIGHT 11		<b>FI G</b> 4s	26 8	4	SG on white cylindrical tower.	
8650	- <i>Lighted Buoy X50</i> (C)	42 32 54 N 82 35 30 W	<b>FI R</b> 4s			Red.	
8655	- <i>Lighted Buoy 13</i>		<b>FI G</b> 2.5s		4	Green.	Maintained from Apr. 7 to Dec. 21.
8660	- <i>Lighted Buoy A14</i> (C)	42 33 06 N 82 35 12 W	<b>FI R</b> 4s			Red.	Seasonal.
<b>Lake St. Clair</b>							
<b>Grosse Point</b>							
8665	- MUNICIPAL PIER NORTHEAST LIGHT	42 22 50 N 82 54 13 W	<b>F Y</b>	18 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8666	- MUNICIPAL PIER SOUTHWEST LIGHT		<b>F Y</b>	18 5		On Post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8667	- <i>Municipal Pier Lighted Entrance Buoy 1</i>		<b>FI G</b> 4s			Green can.	Maintained from Apr. 15 to Nov. 1. Private aid.
8668	- <i>Municipal Pier Lighted Entrance Buoy 2</i>		<b>FI R</b> 4s			Red nun.	Maintained from Apr. 15 to Nov. 1. Private aid.
8669	- <i>Municipal Channel Lighted Buoy 3</i>		<b>FI G</b> 4s			Green can.	Maintained from Apr. 15 to Nov. 1. Private aid.
8670	- <i>MUNICIPAL CHANNEL LIGHTED BUOY 4</i>		<b>FI R</b> 4s			Red nun.	Maintained from Apr. 15 to Nov. 1. Private aid.
8675	- MUNICIPAL PIER SOUTHWEST ENTRANCE LIGHT 5		<b>FI G</b> 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8680	- MUNICIPAL PIER SOUTHWEST ENTRANCE LIGHT 6		<b>FI R</b> 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8685	- MUNICIPAL PIER NORTHWEST ENTRANCE LIGHT 7		<b>FI G</b> 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
8690	- MUNICIPAL PIER NORTHWEST ENTRANCE LIGHT 8		<b>F R</b> 4s	16 5		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
8695	- CLUB HARBOR ENTRANCE WEST LIGHT		<b>F G</b>	10 3		On post.	Private aid.
8700	- CLUB HARBOR ENTRANCE EAST LIGHT		<b>F R</b>	10 3		On post.	Private aid.
8705	- CLUB DOCK SOUTH LIGHT	42 23 00 N 82 53 48 W	<b>F G</b>	15 5		On post.	Private aid.
8710	- CLUB DOCK NORTH LIGHT		<b>F G</b>	15 5		On post.	Private aid.
<b>Crescent Sail Yacht Club</b>							
8715	- LIGHT	42 24 06 N 82 53 06 W	<b>F G</b>	58 18		On tower.	Private aid.
8720	- SMALL (SOUTH) HARBOR LIGHT		<b>F G</b>	8 2		SG on green pile.	Private aid.
8725	- WEST LIGHT		<b>F G</b>	10 3		SG on pile.	Private aid.
8730	- EAST LIGHT		<b>F R</b>	9 3		TR on pile.	Private aid.
8735	- BREAKWATER SOUTH LIGHT		<b>Q W</b>	25 8		NW on white pile cluster.	Visible 180° through 020°. Private aid.
8740	- BREAKWATER NORTH LIGHT		<b>Q W</b>	25 8		NW on white pile cluster.	Visible 195° through 030°. Private aid.
<b>Grosse Point</b>							
8745	MUNICIPAL PIER SOUTH BASIN LIGHT	42 24 18 N 82 53 00 W	<b>F R</b>	10 3		TR on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
8747	Goose Point Farms Buoy 1	42 24 16 N 82 52 59 W				Green can.	Maintained from May 1 to Nov. 1. Private aid.
8748	Goose Point Farms Buoy 2	42 24 21 N 82 52 59 W				Red nun.	Maintained from May 1 to Nov. 1. Private aid.
8749	Goose Point Farms Buoy 3	42 24 18 N 82 53 02 W				Green can.	Maintained from May 1 to Nov. 1. Private aid.
8750	GROOSE POINT FARMS LIGHT 4	42 24 18 N 82 53 01 W	<b>F R</b>	15 5	3	TR on post.	Maintained from May 1 to Nov. 1. Private aid.
8752	GROOSE POINT FARMS LIGHT 5	42 24 18 N 82 53 00 W	<b>F G</b>	6 2	3	SG on post.	Maintained from May 1 to Nov. 1. Private aid.
8755	- YACHT CLUB LIGHT		<b>FIG</b> 2.5s	65 20		Square skeleton tower with building attached.	Private aid.
8760	- YACHT CLUB OUTER BREAKWATER LIGHT B		<b>F R</b>	8 2			Private aid.
8765	- YACHT CLUB OUTER BREAKWATER LIGHT C		<b>F R</b>	8 2		On pile.	Private aid.
8770	- YACHT CLUB OUTER BREAKWATER LIGHT D		<b>F G</b>	8 2			Private aid.
8775	- YACHT CLUB OUTER BREAKWATER LIGHT E		<b>F R</b>	8 2		On pile.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
8780	- YACHT CLUB OUTER BREAKWATER LIGHT F		<b>F R</b>	8 2			Private aid.
<b>Milk River Channel</b>							
<i>Buoys maintained from May 1 to Nov. 1</i>							
8785	- DRAIN LIGHT 1	42 27 36 N 82 52 18 W	<b>FI W</b> 4s	8 2		Black.	Maintained from Apr. 20 to Nov. 20. Private aid.
8790	- Lighted Buoy 1	42 27 36 N 82 52 18 W	<b>Q G</b>			Green.	Private aid.
8795	- Lighted Buoy 2		<b>Q R</b>			Red.	Private aid.
8800	- Buoy 3					Green can.	Private aid.
8805	- Buoy 4					Red nun.	Private aid.
8810	- Buoy 5					Green can.	Private aid.
8815	- Buoy 6					Red nun.	Private aid.
8820	- Buoy 7					Green can.	Private aid.
8825	- Buoy 8					Red nun.	Private aid.
<b>LAKE ST. CLAIR (Charts 14850, 14853)</b>							
8850	<i>Gaukler Shoal Lighted Buoy 1</i>		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 21 to Nov. 14.
8855	<i>Gaukler Shoal Junction Lighted Buoy</i>	42 28 30 N 82 51 30 W	<b>FI (2+1) G</b> 6s		4	Green and red bands.	Maintained from Apr. 21 to Nov. 14.
8875	MILLER MEMORIAL LIGHT	42 27 48 N 82 52 48 W	<b>AI WR</b> 10s 0.2s W fl 4.8s ec. 0.2s R fl 4.8s ec.	260 79			Maintained from Apr. 15 to Dec. 1. Private aid.
8880	St. Claire Shores Breakwater Daybeacon 1					SG on pile.	
8885	ST. CLAIR SHORES BREAKWATER LIGHT 2	42 28 24 N 82 52 42 W	<b>FI R</b> 4s	16 5	4	TR on pile.	
8890	MARTIN DRAIN OUTER LIGHT	42 28 54 N 82 52 48 W	<b>F W</b>	12 4		NW on post.	Maintained from Mar. 15 to Dec. 15. Private aid.
<b>St. Clair Municipal Park Entrance</b>							
<i>Buoys maintained from Apr. 1 to Nov. 1.</i>							
8905	- Buoy 1	42 29 42 N 82 52 42 W				Green can.	Private aid.
8910	- Buoy 2					Red nun.	Private aid.
8915	- Buoy 3					Green can.	Private aid.
8920	- Buoy 4					Red nun.	Private aid.
8921	West Entrance 1	42 34 07 N 82 49 06 W				Green can.	Private aid.
8921.1	West Entrance Buoy 2	42 34 07 N 82 49 04 W				Red nun.	Private aid.
8921.2	West Entrance 3					Green can.	Private aid.
8921.3	West Entrance 4					Red nun.	Private aid.
8921.4	West Entrance 5					Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
8921.5	West Entrance 6					Red nun.	Private aid.
8921.6	West Entrance 7					Green can.	Private aid.
8921.7	West Entrance 8					Red nun.	Private aid.
8922	East Entrance Buoy 1	42 34 07 N 82 48 48 W				Green can.	Private aid.
8922.1	East Entrance Buoy 2	42 34 07 N 82 48 46 W				Red nun.	Private aid.
8922.2	East Entrance 3					Green can.	Private aid.
8922.3	East Entrance 4					Red nun.	Private aid.
8922.4	East Entrance 5					Green can.	Private aid.
8922.5	East Entrance 6					Red nun.	Private aid.
8922.6	East Entrance 7					Green can.	Private aid.
8922.7	East Entrance 8					Red nun.	Private aid.
8925	<i>Point Huron Lighted Buoy 1PH</i>	42 33 12 N 82 44 54 W	<b>FIG 2.5s</b>		4	Green.	Maintained from Apr. 14 to Nov. 14.
8926	<i>Harbor Club South Lighted Buoy 2</i>	42 33 29 N 82 50 37 W	<b>FIR 1s</b>			Red nun.	Maintained from 1 Apr. to 15 Nov. Private aid.
8926.1	Harbor Club South Buoy 4					Red nun.	Maintained from 1 Apr. to 15 Nov. Private aid.
8926.2	<i>Harbor Club South Lighted Buoy 6</i>		<b>FIR 4s</b>			Red nun.	Maintained from 1 Apr. to 15 Nov. Private aid.
<b>Black Creek</b>							
8930	- RANGE FRONT LIGHT		<b>FIG 4s</b>	15 5		White diamond daymark. 20	Maintained from Apr. 1 to Nov. 1. Private aid.
8935	- RANGE REAR LIGHT 336 feet, 297.3° from front light.		<b>FG</b>	18 5		White diamond daymark. 40	Maintained from Apr. 1 to Nov. 1. Private aid.
8940	- <i>Lighted Buoy 1</i>		<b>FIG 4s</b>			Green.	Maintained from Apr. 1 to Nov. 1. Private aid.
8945	- <i>Lighted Buoy 2</i>		<b>FIR 4s</b>			Red.	Maintained from Apr. 1 to Nov. 1. Private aid.
8950	- Buoy 3					Green can.	Maintained from Apr. 1 to Nov. 1. Private aid.
8955	- Buoy 4					Red nun.	Maintained from Apr. 1 to Nov. 1. Private aid.
8960	- Buoy 5					Green can.	Maintained from Apr. 1 to Nov. 1. Private aid.
8965	- Buoy 6					Red nun.	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
<b>LAKE ST. CLAIR</b>							
8970	HURON POINTE YACHT CLUB BREAKWALL LIGHT	42 35 36 N 82 46 54 W	<b>Q R</b>	15 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>Harbor Club North Entrance</b>							
<i>Buoys maintained from Apr. 1 to Nov. 30.</i>							
8971	- Lighted Buoy 1	42 34 05 N 82 49 23 W	<b>FI G</b> 2s			Green.	Private aid.
8971.5	- Lighted Buoy 2	42 34 05 N 82 49 20 W	<b>FI R</b> 2s			Red.	Private aid.
8972	- Buoy 3					Green can.	Private aid.
8972.5	- Buoy 4					Red nun.	Private aid.
8973	- Buoy 5					Green can.	Private aid.
8973.5	- Buoy 6					Red nun.	Private aid.
<b>Clinton River</b>							
<i>Buoys maintained from Apr. 21 to Nov. 1.</i>							
8975	- Entrance Lighted Buoy CR	42 35 36 N 82 44 42 W	<b>Mo (A) W</b>			4 Red and white stripes.	
8980	- Entrance Lighted Buoy 1		<b>FI G</b> 4s			4 Green.	
8985	- Entrance Lighted Buoy 2		<b>FI R</b> 4s			4 Red.	
8990	- Entrance Buoy 3					Green can.	
8995	- Entrance Buoy 4					Red nun.	
9000	- Entrance Buoy 5					Green can.	
9005	- Entrance Buoy 6					Red nun.	
9010	- Entrance Buoy 8					Red nun.	
9015	- NORTH BREAKWATER LIGHT		<b>FI R</b> 2.5s	26 8		4 TR on post.	
9020	- SOUTH BREAKWATER LIGHT		<b>FI G</b> 4s	35 11		5 SG on green and white cylindrical tower.	
9025	- Buoy 10					Red nun.	
9030	Macomb County Sherrif Lookout Tower	42 35 30 N 82 46 18 W	<b>FI Y</b> 4s	46 14		Lookout tower.	Private aid.
9035	- INNER LIGHT		<b>FI R</b> 4s	25 8		5 TR on post.	
<b>Island Cove Marina</b>							
9038	- Entrance Lighted Buoy 1	42 36 07 N 82 47 00 W	<b>FI G</b> 4s			Green	Private aid.
9039	- Entrance Lighted Buoy 2	42 36 09 N 82 47 02 W	<b>FI R</b> 4s			Red.	Private aid.
9040	- Entrance Lighted Buoy 3		<b>FI G</b> 4s			Green.	Private aid.
9041	- Entrance Lighted Buoy 4		<b>FI R</b> 4s			Red.	Private aid.
9042	- Entrance Lighted Buoy 5		<b>FI G</b> 4s			Green.	Private aid.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
9043	- Entrance Lighted Buoy 6		<b>F I R</b> 4s			Red.	Private aid.
9044	- Entrance Lighted Buoy 7		<b>F I G</b> 4s			Green.	Private aid.
9045	- Entrance Lighted Buoy 8		<b>F I R</b> 4s			Red.	Private aid.
9046	- Entrance Lighted Buoy 9		<b>F I G</b> 4s			Green	Private aid.
9047	- Entrance Lighted Buoy 10		<b>F I R</b> 4s			Red.	Private aid.
9048	- Entrance Lighted Buoy 11		<b>F I G</b> 4s			Green.	Private aid.
9049	- Entrance Lighted Buoy 12		<b>F I R</b> 4s			Red.	Private aid.
<b>Belle Maer Marina</b>							
<i>Aids to navigation maintained from May 1 to Nov. 1.</i>							
9070	- RANGE FRONT LIGHT	42 36 06 N 82 47 42 W	<b>F G</b>			White diamond shaped daymark with red and black in center on post. 10	Private aid.
9075	- RANGE REAR LIGHT 450 feet, 203.5° from front light.		<b>F G</b>			White diamond shaped daymark with red and black in center on post. 10	Private aid.
9080	- Lighted Buoy 1	42 36 30 N 82 47 30 W	<b>F I G</b> 4s			Green.	Private aid.
9085	- Lighted Buoy 2		<b>F I R</b> 4s			Red.	Private aid.
9090	- Buoy 3					Green can.	Private aid.
9095	- Buoy 4					Red nun.	Private aid.
<b>Macray East Harbor Entrance</b>							
<i>Buoys maintained from Apr. 15 to Nov. 15.</i>							
9100	- Lighted Buoy 1	42 36 30 N 82 47 54 W	<b>F I G</b> 2.5s			Green.	Private aid.
9105	- Buoy 2					Red nun.	Private aid.
9110	- Buoy 3					Green can.	Private aid.
9115	- Buoy 4					Red nun.	Private aid.
<b>Macray West Harbor Entrance</b>							
<i>Buoys maintained from Apr. 15 to Nov. 15.</i>							
9120	- Lighted Buoy 1	42 36 36 N 82 47 06 W	<b>F I G</b> 4s			Green.	Private aid.
9125	- Buoy 2					Red nun.	Private aid.
9130	- Buoy 3					Green can.	Private aid.
9135	- Buoy 4					Red nun.	Private aid.
<b>Selfridge Field</b>							
9140	- SOUTHEAST BREAKWATER LIGHT	42 36 36 N 82 48 48 W	<b>F I Y</b> 6s	11 3	5	On post.	
9150	- NORTHWEST BREAKWATER LIGHT	42 36 42 N 82 48 54 W	<b>F I Y</b> 6s	11 3	5	On post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
<b>Selfridge Launch Facility</b>							
9162	SELFRIDGE MARINA ENTRANCE LIGHT 1	42 36 58 N 82 49 06 W	FI G 4s	20 6	4	SG on pile.	
9163	SELFRIDGE MARINA ENTRANCE LIGHT 2	42 36 59 N 82 49 06 W	FI R 4s	20 6	4	TR on pile.	
9165	- Buoy 1					Green can.	Private aid.
9170	- Buoy 2					Red cylinders.	Private aid.
9175	- Buoy 3					Green can.	Private aid.
9180	- Buoy 4					Red cylinders.	Private aid.
9185	- Buoy 5					Green can.	Private aid.
9190	- Buoy 6					Red cylinders.	Private aid.
9195	- ENTRANCE LIGHT 2		FI R 4s	29 9		On breakwall.	Maintained from May 1 to Nov. 1. Private aid.
9200	SALT RIVER RANGE FRONT LIGHT	42 39 18 N 82 47 06 W	F G			White daymark with orange diamond on pile. 16	Maintained from Jun. 15 to Nov. 15. Private aid.
9205	SALT RIVER RANGE REAR LIGHT 295 feet, 018° from front light.		F G			White daymark with orange diamond on pile. 26	Maintained from Jun. 15 to Nov. 15. Private aid.
<b>Bouvier Bridge Marina Channel</b>							
<i>Channel marked by 18 lighted and unlighted buoys maintained from Apr. 15 to Nov. 1.</i>							
9259	- Lighted Buoy 1		FI G 2.5s			Green.	Private aid.
9260	- Lighted Buoy 2	42 40 12 N 82 38 06 W	FI R 2.5s			Red.	Private aid.
9265	Fair Haven Entrance Lighted Buoy 1FH	42 40 06 N 82 38 30 W	FI G 4s		4	Green.	Maintained from Apr. 14 to Nov. 1.
9295	CHATEAU MARINA LIGHT 1	42 41 12 N 82 42 18 W	F G	8 2		SG on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
9300	CHATEAU MARINA LIGHT 2		F R	8 2		TR on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>ST. CLAIR RIVER (Chart 14852)</b>							
<b>North Channel Entrance</b>							
<i>Position of unlighted buoys frequently shifted with changing conditions. Buoys maintained from Apr. 21 to Nov. 1.</i>							
9305	- Lighted Buoy 2NC	42 37 30 N 82 43 06 W	FI R 4s		4	Red.	Nun; winter marker.
9310	- Buoy 3					Green can.	
9320	- Buoy 5					Green can.	
9325	- Buoy 6					Red nun.	
9327	- Buoy 6A					Red nun.	
9330	- Buoy 7					Green can.	
9335	- Buoy 8					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
9340	- Buoy 9					Green can.	
9345	- Buoy 10					Red nun.	
9347	- Buoy 11					Green can.	
9350	- Buoy 12					Red nun.	
9355	- Lighted Buoy 13		<b>FI G</b> 4s		4	Green.	
<b>North Channel</b>							
<i>Buoys maintained from Apr. 21 to Nov. 1.</i>							
9360	- Buoy 14					Red nun.	
9365	- Buoy 15					Green can.	
9370	- Buoy 17					Green can.	
9375	- Buoy 18					Red nun.	
9380	- Buoy 19					Green can.	
9385	- Lighted Buoy 20		<b>FI R</b> 4s		4	Red.	
9387	- Buoy 22					Red nun.	
9390	BELVIDERE BOAT CLUB LIGHT	42 38 00 N 82 39 30 W	<b>FR</b>	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 42 N 82 38 54 W	<b>FG</b>	7 2		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
9400	NORTH CHANNEL YACHT CLUB LIGHT 2	42 37 42 N 82 38 54 W	<b>FR</b>	7 2		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>Sassy Marine</b>							
<i>Aids maintained from Apr. 1 to Nov. 1.</i>							
9405	- WEST ENTRANCE LIGHT 1		<b>FG</b>	6 2		On pile.	Private aid.
9410	- WEST ENTRANCE LIGHT 2		<b>FR</b>	8 2		On pile.	Private aid.
9415	- EAST ENTRANCE LIGHT 1		<b>FG</b>	8 2		On pile.	Private aid.
9420	- EAST ENTRANCE LIGHT 2		<b>FR</b>	7 2		On pile.	Private aid.
9425	Algonac Harbor Buoy 1	42 36 36 N 82 32 54 W				Green spar.	Private aid.
9430	Algonac Harbor Buoy 2					Red spar.	Private aid.
<b>Middle Channel Entrance</b>							
<i>Position of unlighted buoys frequently shifted with changing conditions. Buoys maintained from Apr. 21 to Nov. 1.</i>							
9435	- Lighted Buoy 1MC		<b>FI G</b> 4s		4	Green.	Can; winter marker.
9440	- Lighted Buoy 2	42 33 48 N 82 43 18 W	<b>FI R</b> 4s	4 1		Red.	
9445	- Buoy 3					Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
9450	- Buoy 4					Red nun.	
9455	- Buoy 5					Green can.	
<b>Middle Channel</b>							
<i>Buoys maintained from Apr. 21 to Nov. 1.</i>							
9460	- Lighted Buoy 6		<b>FI R 2.5s</b>		4	Red.	
9465	- Buoy 7					Green can.	
9470	- Buoy 8					Red nun.	
9475	- Buoy 9					Green can.	
9480	- Buoy 10					Red nun.	
9485	- Buoy 11					Green can.	
9490	- Lighted Buoy 12		<b>FI R 4s</b>		4	Red.	
<b>Clinton River Boat Club</b>							
<i>Aids maintained from May 1 to Nov. 1.</i>							
9495	- South Entrance Buoy 4					Red nun.	Private aid.
9500	- South Entrance Buoy 3					Green can.	Private aid.
9505	- Entrance Buoy 2					Red nun.	Private aid.
9510	- Entrance Buoy 1					Green can.	Private aid.
<b>Middle Channel</b>							
<i>Buoys maintained from Apr. 21 to Nov. 1.</i>							
9515	- Buoy 13					Green can.	
9520	- Buoy 14					Red nun.	
9525	<i>Dickinson Island Junction Lighted Buoy</i>		<b>FI (2+1) R 6s</b>		4	Red and green bands.	
<b>St. Clair Flats Old Channel</b>							
<i>Position of buoys frequently shifted with changing conditions. Buoys maintained from Apr. 21 to Nov. 1.</i>							
9530	- Lighted Buoy 20C	42 31 36 N 82 42 42 W	<b>FI R 4s</b>		4	Red.	
9535	- Buoy 3					Green can.	
9540	- Buoy 4					Red nun.	
9545	- Buoy 6					Red nun.	
9550	- LIGHT	42 32 18 N 82 41 36 W	<b>FI W 4s</b>	28 9	6	Yellow tower on crib.	
9560	- Buoy 8					Red nun.	
9565	- Buoy 10					Red nun.	
<b>St. Clair Flats Canal</b>							
9570	- Buoy 1	42 31 11 N 82 41 19 W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE ST. CLAIR</b>							
9575	ST CLAIR FLATS LIGHT 2	42 31 06 N 82 41 12 W	<b>FI W</b> 4s	28 9	6	TR on post marking submerged jetty.	
9580	- Buoy 5	42 31 38 N 82 40 48 W				Green can.	
9585	- Lighted Buoy 4		<b>FI R</b> 2.5s		4	Red.	Maintained from Apr. 7 to Dec. 14.
9590	- Lighted Buoy 7		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 7 to Dec. 14.
9595	OLD CLUB BREAKWATER LOWER LIGHT	42 32 24 N 82 40 00 W	<b>F W</b>	10 3		On pile cluster.	Private aid.
9600	OLD CLUB BREAKWATER UPPER LIGHT		<b>F W</b>	10 3		On pile cluster.	Private aid.
9605	MAYBURY HIGHWAY LIGHT 10 (C)	42 33 18 N 82 38 18 W	<b>FI R</b> 4s	24 7		White square tower with red top. 18	
<b>Riverside Store</b>							
<i>The following buoys are maintained from May 1 to Nov. 1.</i>							
9610	- Buoy 1					Green barrel.	Private aid.
9615	- Buoy 2					Red barrel.	Private aid.
9620	- Buoy 3					Green barrel.	Private aid.
9625	- Buoy 4					Red barrel.	Private aid.
<b>ST. CLAIR RIVER (Chart 14852)</b>							
9630	ST. CLAIR FLATS LIGHT 13		<b>F G</b>	24 7	6	SG on post.	
9635	Schneider Marina Buoy 1	42 33 18 N 82 37 00 W				Green can.	Maintained from May 15 to Nov. 1. Private aid.
9640	Scheider Marina Buoy 2					Red barrel.	Maintained from May 15 to Nov. 1. Private aid.
9645	SOUTHEAST BEND LIGHT 16 (C)		<b>FI R</b> 4s	23 7		White square tower with red top. 21	
9650	HARSENS ISLAND LIGHT 17		<b>FI G</b> 4s	27 8	4	SG on pile.	
<b>ST. CLAIR RIVER</b>							
<b>ST. CLAIR RIVER (Chart 14852)</b>							
<b>South Channel</b>							
9655	HARSENS ISLAND RANGE FRONT LIGHT	42 34 18 N 82 34 36 W	<b>F G</b>	27 8		White cylindrical tower. 26	
9660	HARSENS ISLAND RANGE REAR LIGHT 525 feet, 023.5° from front light.		<b>F G</b>	31 9		Cylindrical tower.	Higher intensity beam down channel.
9665	- Lighted Buoy 15		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
9670	- Lighted Buoy 16		<b>FI R</b> 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
<b>ST. CLAIR RIVER</b>							
9675	- Lighted Buoy 17		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
9680	- LIGHT A20 (C)	42 33 48 N 82 34 48 W	Q R	33 10		White square tower with red stripes on corners. 21	
9685	- Lighted Buoy A22 (C)		FI R 4s			Red.	Seasonal.
9690	GRANDE POINTE LIGHT 23		F G	28 9	5	SG on dolphin.	Higher intensity beam upstream.
9695	- Lighted Buoy A24 (C)		FI R 4s			Red.	Seasonal.
9700	ST. CLAIR RIVER LIGHT A26 (C)	42 35 30 N 82 32 42 W	Q R	39 12		White circular tower with red top. 14	
9705	Grande Pointe Lighted Buoy 27		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
9710	Russell Island Lighted Buoy 29		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 1.
9715	Walpole Island Lighted Buoy A30 (C)	42 36 12 N 82 31 30 W	FI R 4s			Red.	Seasonal.
9720	Walpole Island Light (C)	42 36 18 N 82 31 24 W	F R	30 9	10	White circular tower with red top. 26	
9725	Russell Island Light	42 36 36 N 82 31 24 W	F W (G sector)	28 9	W 10 G 8	SG on post.	Green from 237° to 057°.
9730	Walpole Island Lower Light A32 (C)	42 36 42 N 82 31 06 W	Iso R 4s	18 5	12	White square tower with red top.	
9735	RUSSELL ISLAND LIGHT 33	42 36 48 N 82 31 18 W	F G	26 8	5	SG on post.	
9740	WALPOLE ISLAND FERRY BREAKWATER LIGHT (C)	42 36 54 N 82 30 54 W	FI R 4s	11 3		On pile dolphin.	
9745	Russell Island Shoal Lighted Buoy RI		FI (2+1) G 6s		4	Green and red bands.	Replaced by can from Dec. 21 to Apr. 1.
9750	WALPOLE ISLAND UPPER LIGHT A34 (C)	42 37 18 N 82 30 42 W	FI R 4s	23 7		White square tower with red top.	
<b>St. Clair River</b>							
9755	Chenal Ecarte Shoal Lighted Buoy A36 (C)		FI R 4s			Red.	Seasonal.
9760	CHENAL ECARTE RANGE FRONT LIGHT (C)	42 38 12 N 82 30 06 W	F R	17 5		Orange triangular daymark with black stripe on circular tower. 12	Visible on range line only. Seasonal.
9765	CHENAL ECARTE RANGE REAR LIGHT 200 feet, 138.3° from front light. (C)		F R	37 11		Orange triangular daymark with black stripe on circular tower. 26	Visible on range line only. Seasonal.
9770	WILLOW POINT LIGHT	42 38 36 N 82 30 42 W	F G	31 9	8	SG on post.	
9775	Roberts Landing Lighted Buoy 37		FI G 4s		4	Green.	Maintained from Apr. 1 to Dec. 21.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. CLAIR RIVER</b>							
9780	<i>Fawn Island Lighted Buoy 38</i> Marks south side of shoal.		<b>FIR 4s</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
<b>Marine City</b>							
9785	- SALT DOCK LIGHT		<b>FG</b>	28 9	8	SG on post.	
9790	- <i>Shoal Lighted Buoy 40</i>		<b>FIR 4s</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
<b>Marine City Channel</b>							
<i>Buoys maintained from Apr. 15 to Nov. 15.</i>							
9795	- Buoy 1	42 42 06 N 82 30 00 W				Green can.	Private aid.
9800	- Buoy 2					Red nun.	Private aid.
9805	- Buoy 3					Green can.	Private aid.
9810	- Buoy 4					Red nun.	Private aid.
9815	- Buoy 5					Green can.	Private aid.
9820	- Buoy 6					Red nun.	Private aid.
<b>St. Clair River</b>							
9825	<i>Fawn Island Upper End Lighted Buoy 42</i>		<b>QR</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9830	STOKES POINT WHARF LIGHT (C)	42 44 05 N 82 28 44 W	<b>Iso R 2s</b>	30 9		White circular tower with red top. 24	
9835	KESSEL POINT LIGHT (C)	42 45 06 N 82 27 54 W	<b>FY</b>	30 9	8	Orange diamond daymark on white square skeleton mast. 25	
9840	RECORDS POINT DOCK LOWER LIGHT	42 45 32 N 82 28 21 W	<b>FIG 4s</b>	30 9		On white post. 24	Private aid.
9845	<i>Records Point Lighted Buoy A44</i> (C)		<b>FIR 4s</b>			Red.	Seasonal.
9850	RECORDS POINT DOCK UPPER LIGHT		<b>Iso G 4s</b>	30 9		On white post. 24	Private aid.
9855	BOWENS CREEK DIRECTIONAL LIGHT (C)	42 46 12 N 82 27 48 W	<b>FY</b>	28 9		White circular tower with red top.	Higher intensity beam on on bearings 022° and 159°.
9860	HARTS LANDING LIGHT		<b>FG</b>	26 8	8	SG on dolphin.	
9865	<i>Harts Landing Lighted Buoy A46</i> (C)	42 47 18 N 82 28 18 W	<b>FIR 4s</b>			Red.	Seasonal.
9870	COURTRIGHT LIGHT (C)	42 48 24 N 82 28 42 W	<b>FY</b>	20 6	7	White skeleton tower on dolphin. 14	
9875	<i>St. Clair Middle Ground Lighted Buoy 48</i>		<b>QR</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9880	<i>St. Clair Middle Ground Lighted Buoy 50</i>		<b>FIR 4s</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9885	<i>St. Clair Middle Ground Lighted Buoy 52</i>		<b>QR</b>		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
<b>ST. CLAIR RIVER</b>							
9890	MOORETOWN LIGHT (C)	42 50 24 N 82 28 06 W	FI Y 4s	30 9	8	White circular tower with red top. 25	
9895	St. Clair Middle Ground Lighted Buoy A54 (C)		Q R			Red.	Seasonal.
9900	Stag Island Lower Lighted Buoy 55		FI G 4s		4	Green.	Maintained from Apr. 1 to Dec. 21.
9905	Stag Island Shoal Lower Junction Lighted Buoy AMB (C)		FI (2+1) R 6s			Red with green band.	Seasonal.
9910	STAG ISLAND SHOAL LIGHT Marks south side of shoal. (C)	42 51 54 N 82 28 00 W	FI W 4s	22 7	6	White circular tower.	
<b>St. Clair River</b>							
9925	STAG ISLAND MIDDLE LIGHT		Oc G 4s	16 5	8	SG on skeleton tower.	Higher intensity beam upstream.
9930	Stag Island Shoal Lighted Buoy 56		FI R 4s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9935	Stag Island Lighted Buoy 58		FI R 2.5s		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
9940	Stag Island North Cardinal Lighted Buoy AM (C)		Q W			Black and yellow.	Spar; winter marker. Seasonal.
9945	STAG ISLAND UPPER LIGHT		FI G 2.5s	26 8	7	SG on post.	Higher intensity beam up and downstream.
9950	- Lighted Buoy A60 (C)	42 55 13 N 82 27 23 W	FI R 4s			Red.	Spar; winter marker. Seasonal.
9955	Stag Island North End Lighted Buoy AM3 (C)	42 53 42 N 82 27 36 W	FI G 4s			Green.	Spar; winter marker. Seasonal.
9965	BLACK RIVER ENTRANCE LIGHT 1	42 58 21 N 82 25 10 W	FI G 4s	29 9	3	SG on pile.	
9970	Sarnia Breakwater Junction Lighted Buoy AHB (C)		FI (2+1) R 6s			Red with green band.	Spar; winter marker. Seasonal.
9975	Point Edward Lighted Buoy A66 (C)	42 59 18 N 82 25 18 W	FI R 4s			Red.	Seasonal.
9980	Point Edward Lighted Buoy A68 (C)	42 59 36 N 82 25 24 W	Q R			Red.	Spar; winter marker. Seasonal.
9985	Point Edward Lighted Buoy A70 (C)	42 59 42 N 82 25 24 W	FI R 4s			Red.	Spar; winter marker. Seasonal.
9990	FORT GRATIOT RANGE FRONT LIGHT	42 59 36 N 82 25 36 W	F W	36 11		KRW with 12 foot vertical bar light on white cylindrical tower. 44	Port Huron-Sarnia Bridge center span lights (Oc G) are on Fort Gratiot rangeline.
9995	FORT GRATIOT RANGE FRONT PASSING LIGHT		F G	44 13	9	On same structure as Fort Gratiot Range Front Light.	Higher intensity on bearing 326° diminishing around remainder of horizon.
10000	FORT GRATIOT RANGE REAR LIGHT 458 feet, 207.3° from front light.		F W	52 16		KRW with 12 foot vertical bar light on brown octagonal tower. 58	



# Section 8

## Lake Huron to Straits of Mackinac

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
<b>LAKE HURON (Chart 14860)</b>							
10010	NOAA Lighted Weather Buoy 45008	44 17 00 N 82 24 59 W	FI (4) Y 20s			Yellow disc-shaped hull.	Replaced by can from Dec. 1 to Apr. 1. Aid maintained by NOAA
<b>PORT HURON TO PTE AUX BARQUES (Chart 14862)</b>							
10015	Fort Gratiot Light	43 00 24 N 82 25 24 W	FI G 6s	82 25	21	White conical brick tower. 86	Station will give available information on fog conditions in upper river by radiotelephone when requested, (156.80 MHz). Standby light of reduced intensity. Lighted throughout 24 hours.
10017	Port Huron RA Buoy A	43 00 22 N 82 25 17 W				Yellow can.	
10018	Port Huron RA Lighted Buoy B	43 00 22 N 82 25 16 W	FI Y 2.5s			Yellow can.	
10019	Port Huron RA Buoy C	43 00 20 N 82 25 17 W				Yellow can.	
10020	Port Huron RA Lighted Buoy D	43 00 17 N 82 25 15 W	FI Y 4s			Yellow can.	
10025	POINT EDWARD RANGE FRONT LIGHT (C)	43 00 12 N 82 25 00 W	FR	42 13		Orange triangular daymark with black vertical stripe on white circular tower with red band at top. 31	Visible from all points of approach. RACON: M (--)
10030	POINT EDWARD RANGE REAR LIGHT 2,140 feet, 180.4° from front light. (C)		FR	120 37		Orange triangular daymark. with black vertical stripe mounted on International Bridge.	Visible on range line only.
<b>Lake Huron Cut</b>							
<i>Lighted buoys maintained from Apr. 1 to Dec. 21 unless otherwise noted.</i>							
10035	- Lighted Buoy 1		QG		4	Green.	Replaced by LIB of reduced intensity from Dec. 21 to Apr. 1.
10040	- Lighted Buoy 2 (C)		QR			Red.	Spar; winter marker.
10045	- Lighted Buoy 3		FIG 4s		4	Green.	
10050	- Lighted Buoy 4		FIR 4s		4	Red.	
10055	- Lighted Buoy 5		FIG 4s		4	Green.	Maintained from Apr. 7 to Dec. 21.
10060	- Lighted Buoy 6		FIR 4s		4	Red.	Maintained from Apr. 7 to Dec. 21.
10065	- LIGHT 7	43 03 36 N 82 25 06 W	QG	47 14	6	SG on cylindrical tower.	RACON: T (-). HORN: 1 blast ev 15s (2s bl). Operates continuously from May 15 to Oct. 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10070	- Lighted Buoy 8		<b>Q R</b>		4	Red.	Replaced by nun from Dec. 21 to Apr. 1.
10075	- Lighted Buoy 9		<b>FI G 4s</b>		4	Green.	
10080	- Lighted Buoy 10		<b>FI R 4s</b>		4	Red.	
10085	- Lighted Buoy 11		<b>FI G 4s</b>		7	Green.	Replaced by LIB of reduced intensity from Dec. 21 to Apr. 1.
10090	- Lighted Buoy 12		<b>FI R 4s</b>		7	Red.	Replaced by nun from Dec. 21 to Apr. 1.
<b>West Side</b>							
<b>Lexington Harbor</b>							
10095	- EAST BREAKWATER LIGHT 2	43 16 00 N 82 31 22 W	<b>FI R 2.5s</b>	29 9	5	TR on post.	
10100	- WEST BREAKWATER LIGHT 3		<b>FI G 4s</b>	25 8	4	SG on post.	
10105	- Buoy 5					Green can.	Maintained from May 1 to Nov. 1.
10110	- Buoy 6					Red nun.	Maintained from May 1 to Nov. 1.
<b>Port Sanilac</b>							
10115	- Light	43 25 48 N 82 32 24 W	<b>FI (3) W 10s</b> 1s fl 1s ec. 1s fl 1s ec. 1s fl 5s ec.	69 21	16	White octagonal tower. 59	
10120	- NORTH BREAKWATER LIGHT 2	43 25 48 N 82 32 06 W	<b>FI R 4s</b>	35 11	7	TR on pile.	
10125	- SOUTH BREAKWATER LIGHT 3		<b>FI G 4s</b>	29 9	5	SG on pile.	
<b>Wagener County Park</b>							
<i>Buoys maintained from May 1 to Oct. 1.</i>							
10126	- Buoy 1	43 46 12 N 82 36 54 W				Green can.	Private aid.
10126.5	- Buoy 2					Red nun.	Private aid.
10127	- Buoy 3					Green can.	Private aid.
10127.5	- Buoy 4					Red nun.	Private aid.
10128	- Buoy 5					Green can.	Private aid.
10128.5	- Buoy 6					Red nun.	Private aid.
10129	- White Rock Shoal Lighted Buoy 3	43 43 59 N 82 35 19 W	<b>FI G 4s</b>		4	Green.	Maintained from May 1 to Nov. 1.
<b>Harbor Beach</b>							
10130	- Light	43 50 42 N 82 37 54 W	<b>AI WR 10s</b>	54 16	W 19 R 16	White conical tower.	HORN: 1 blast ev 30s (3s bl). Operates from Apr. 1 to Dec. 1.
10140	- SOUTH PIER LIGHT 1		<b>FI G 4s</b>	27 8	6	SG on post.	
10145	- Buoy 3	43 50 36 N 82 38 06 W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10150	- Buoy 4					Red nun.	
10155	- Buoy 5					Green can.	
10160	- Buoy 6					Red nun.	
<b>Offshore Marine</b>							
<i>Buoys maintained from Apr. 1 to Nov. 1.</i>							
10165	- Buoy 1					Green spar.	Private aid.
10170	- Buoy 2					Red spar.	Private aid.
10175	- Buoy 3					Green spar.	Private aid.
10180	- Buoy 4					Red spar.	Private aid.
10185	- Buoy 5					Green spar.	Private aid.
10190	- Buoy 6					Red spar.	Private aid.
10195	Harbor Beach Marina Lighted Buoy 1	43 51 18 N 82 38 38 W	FI G 4s		3	Green.	Maintained from 01 Apr. to 01 Dec.
10200	Harbor Beach Marina Buoy 3	43 51 19 N 82 38 45 W	FI G 2.5s		3	Green.	Maintained from 01 Apr. to 01 Dec.
<b>Stafford County Park</b>							
<i>Buoys maintained from May 1 to Oct. 1.</i>							
10202.1	- Buoy 1	43 56 36 N 82 42 24 W				Green can.	Private aid.
10202.2	- Buoy 2					Red nun.	Private aid.
10202.3	- Buoy 3					Green can.	Private aid.
10202.4	- Buoy 4					Red nun.	Private aid.
10202.5	- Buoy 5					Green can.	Private aid.
10202.6	- Buoy 6					Red nun.	Private aid.
<b>Harbor Beach</b>							
10205	Point Aux Barques Lighted Buoy 1	44 02 33 N 82 45 20 W	FI G 4s		4	Green.	Maintained from Apr. 28 to Dec. 1.
10210	Point Aux Barques Light	44 01 24 N 82 47 36 W	FI (2) W 20s 0.2s fl 4.8s ec. 0.2s fl 14.8s ec.	93 28	28	White conical tower with dwelling attached. 89	
<b>Lighthouse County Park</b>							
<i>Buoys maintained from May 1 to Oct. 1.</i>							
10211	- Buoy 1	44 01 00 N 82 47 12 W				Green can.	Private aid.
10212	- Buoy 2					Red nun.	Private aid.
<b>SAGINAW BAY (Chart 14863)</b>							
<b>Grindstone Channel</b>							
<i>Entrance buoys maintained from Apr. 15 to Nov. 15.</i>							
10215	- Entrance Buoy 1	44 03 32 N 82 53 24 W				Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10220	- Entrance Buoy 2	44 03 32 N 82 53 25 W				Red nun.	Private aid.
10225	- Entrance Buoy 3					Green can.	Private aid.
10230	- Entrance Buoy 4					Red nun.	Private aid.
10235	- Entrance Buoy 5					Green can.	Private aid.
10240	- Entrance Buoy 6					Red nun.	Private aid.
10245	- Entrance Buoy 7					Green can.	Private aid.
10250	- Entrance Buoy 8					Red nun.	Private aid.
10255	- Entrance Buoy 9					Green can.	Private aid.
10260	- Entrance Buoy 10					Red nun.	Private aid.
10265	- Entrance Buoy 11					Green can.	Private aid.
10270	- Entrance Buoy 12					Red nun.	Private aid.
10271	- Entrance Buoy 13					Green can.	Private aid.
10272	- Entrance Buoy 14					Red nun.	Private aid.
10273	- Entrance Buoy 15					Green can.	Private aid.
10274	- Entrance Buoy 16					Red nun.	Private aid.
<b>Port Austin</b>							
<i>Buoys maintained from May 1 to Nov. 1.</i>							
10275	- REEF LIGHT	44 04 54 N 82 58 54 W	<b>FI W</b> 6s	76 23	8	Buff square tower with house attached.	
10280	- Shoal Buoy 1 Marks north side of shoal.	44 05 48 N 82 59 35 W				Green can.	Maintained from May 1 to Dec. 1.
10285	- Buoy 3					Green can.	
10290	- BREAKWATER LIGHT 4	44 03 12 N 82 59 36 W	<b>FI R</b> 2.5s	24 7	4	TR on pile.	
10295	- LIGHT 5	44 03 12 N 82 59 36 W	<b>FI G</b> 2.5s	25 8	6	SG on post.	
10300	- Buoy 5A					Green can.	
10305	- Buoy 6					Red nun.	
10310	- Buoy 7					Green can.	
<i>Buoys maintained from Jun. 1 to Sep. 1.</i>							
10315	- Channel Buoy 1					On black spar.	Private aid.
10320	- Channel Buoy 2					On red spar.	Private aid.
10325	- Channel Buoy 4					On red spar.	Private aid.
10330	- Channel Buoy 6					On red spar.	Private aid.
<b>Oak Beach County Park</b>							
<i>Buoys maintained from May 1 to Oct. 1.</i>							
10342.1	- Buoy 1	43 56 36 N 83 07 30 W				Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10342.2	- Buoy 2					Red nun.	Private aid.
10342.3	- Buoy 3					Green can.	Private aid.
10342.4	- Buoy 4					Red nun.	Private aid.
<b>Caseville Harbor</b>							
<i>Buoys maintained from May 1 to Nov. 1.</i>							
10345	- LIGHT 1	43 56 54 N 83 17 06 W	<b>FI G</b> 2.5s	27 <b>8</b>	5	SG on post.	
10350	- RANGE FRONT LIGHT		<b>F R</b>	25 <b>8</b>		On red pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
10355	- RANGE REAR LIGHT 330 feet, 113.5° from front light.		<b>F R</b>	30 <b>9</b>		On red pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
10365	- Buoy 2					Red nun.	
10370	- Buoy 4					Red nun.	
10372	- Buoy 6					Red nun.	
10373	- LIGHT	43 56 36 N 83 16 22 W	<b>FI W</b> 10s	65 <b>20</b> <b>20</b> <b>6</b>		Square white tower with red roofed cupola. 38	Private aid.
10375	Sand Point Midchannel Buoy S	43 55 55 N 83 24 46 W				Red and white stripes; spherical.	
10380	<i>Wildfowl Bay Channel Lighted Buoy 1</i>	43 52 42 N 83 21 24 W	<b>Q G</b>			Green.	Maintained from May 15 to Oct. 15. Private aid.
10385	<i>Wildfowl Bay Channel Lighted Buoy 2</i>		<b>Q R</b>			Red.	Maintained from May 15 to Oct. 15. Private aid.
<b>SAGINAW BAY (Chart 14863)</b>							
10470	SEBEWAING YACHT CLUB SOUTH LIGHT	43 44 18 N 83 27 48 W	<b>F R</b>	24 <b>7</b>		On pile.	Maintained from Mar. 15 to Oct. 15. Private aid.
10475	SEBEWAING YACHT CLUB NORTH LIGHT	43 44 18 N 83 27 48 W	<b>F G</b>	24 <b>7</b>		On pile.	Maintained from Mar. 15 to Oct. 15. Private aid.
10480	OAKHURST PARK MARINA RANGE FRONT LIGHT	43 37 48 N 83 37 06 W	<b>F G</b>	17 <b>5</b>		Orange triangle on post. 14	Maintained from May 1 to Oct. 31. Private aid.
10485	OAKHURST PARK MARINA RANGE REAR LIGHT 100 feet, 143.5° from front light.		<b>F G</b>	37 <b>11</b>		Orange and white triangle on tower. 34	Maintained from May 1 to Oct. 31. Private aid.
<b>Quanicassee River</b>							
<i>Buoys maintained from May 1 to Oct. 1.</i>							
10490	- Buoy 1					Green can.	Private aid.
10495	- Buoy 2					Red nun.	Private aid.
10500	- Buoy 3					Green can.	Private aid.
10505	- Buoy 4					Red nun.	Private aid.
10510	- Buoy 5					Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10515	- Buoy 6					Red nun.	Private aid.
10520	- Buoy 7					Green can.	Private aid.
10525	- Buoy 8					Red nun.	Private aid.
<b>SAGINAW BAY (Chart 14863)</b>							
10530	<i>Charity Island Shoal</i> <i>Lighted Bell Buoy 1</i>	44 06 30 N 83 29 46 W	<b>Q G</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
10535	<i>Charity Island Shoal</i> <i>Lighted Buoy 3</i> Marks west side of shoal.		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
10540	<b>Gravelly Shoal Light</b>	44 01 12 N 83 32 18 W	<b>FI R 6s</b>	75 23	11	White square tower on cylindrical base.	HORN: 1 blast ev 30s (3s bl). Operates continuously.
<b>SAGINAW RIVER (Chart 14867)</b>							
<b>Saginaw Bay Channel</b>							
10550	- RANGE FRONT LIGHT	43 38 54 N 83 51 00 W	<b>F R</b>	66 20		On skeleton tower.	Lighted throughout 24 hours.
10560	- RANGE REAR LIGHT 8,706 feet, 211.2° from front light.		<b>F G</b>	155 47		On skeleton tower.	Lighted throughout 24 hours.
10570	- <b>Light 1</b>	43 48 24 N 83 43 06 W	<b>FI G 6s</b>	50 15	12	White cylindrical tower with green band in middle.	
10575	- <i>Lighted Buoy 2</i>	43 48 23 N 83 43 13 W	<b>FI R 2.5s</b>		5	Red.	Nun; winter marker. Maintained from Apr. 21 to Dec. 7.
10590	Saginaw Bay Channel Buoy 3	43 47 27 N 83 43 54 W				Green can.	
10595	Saginaw Bay Channel Buoy 4	43 47 29 N 83 43 58 W				Red nun.	
10600	- <i>Lighted Buoy 5</i>	43 46 34 N 83 44 39 W	<b>FI G 4s</b>		4	Green.	Can; winter marker. Maintained from Apr. 21 to Dec. 7.
10605	- <i>Lighted Buoy 6</i>	43 46 36 N 83 44 43 W	<b>FI R 4s</b>		4	Red.	Nun; winter marker. Maintained from Apr. 21 to Dec. 7.
10610	Saginaw Bay Channel Buoy 7	43 45 41 N 83 45 23 W				Green can.	
10615	Saginaw Bay Channel Buoy 8	43 45 43 N 83 45 27 W				Red nun.	
10620	- <i>Lighted Buoy 9</i>	43 44 48 N 83 46 07 W	<b>FI G 4s</b>		4	Green.	Can; winter marker. Maintained from Apr. 21 to Dec. 7.
10625	- <i>Lighted Buoy 10</i>	43 44 50 N 83 46 12 W	<b>FI R 4s</b>		4	Red.	Nun; winter marker. Maintained from Apr. 21 to Dec. 7.
10640	- <i>Lighted Buoy 11</i>		<b>FI G 2.5s</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
10644	- LIGHT 12	43 43 54 N 83 46 54 W	<b>FI R 2.5s</b>	20 6	6	White cylindrical tower with red stripe in middle.	
10650	Saginaw Bay Channel Buoy 13	43 43 00 N 83 47 38 W				Green can.	
10655	Saginaw Bay Channel Buoy 14	43 43 02 N 83 47 42 W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10660	- Lighted Buoy 15		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
10665	- Lighted Buoy 16	43 42 09 N 83 48 27 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
10670	Saginaw Bay Channel Buoy 17	43 41 13 N 83 49 08 W				Green can.	
10675	Saginaw Bay Channel Buoy 18	43 41 15 N 83 49 12 W				Red nun.	
10680	- Lighted Buoy 19		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
10685	- Lighted Buoy 20	43 40 23 N 83 49 55 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
10690	- OBSTRUCTION LIGHT A	43 40 18 N 83 49 54 W	<b>Q W</b>	21 6		On dolphin.	Maintained from Apr. 15 to Dec. 15. Maintained by ACOE.
10695	- OBSTRUCTION LIGHT B		<b>Q W</b>	21 6		On dolphin.	Maintained from Apr. 15 to Dec. 15. Maintained by ACOE.
10710	- Lighted Buoy 21	43 39 36 N 83 50 24 W	<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
10715	- Lighted Buoy 22	43 39 42 N 83 50 30 W	<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
10720	- Lighted Buoy 23		<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
10725	- Lighted Buoy 24		<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
10730	- LIGHT 26	43 39 00 N 83 51 00 W	<b>Q R</b>	25 8	7	TR on pile.	
10735	- Lighted Buoy 25	43 39 00 N 83 50 54 W	<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
10740	- Lighted Buoy 28	43 38 47 N 83 50 58 W	<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
10745	Bay City Yacht Club North Basin Buoy 1	43 38 37 N 83 51 00 W				Green can.	Maintained from May 1 to Oct. 15. Private aid.
10746	Bay City Yacht Club North Basin Buoy 2	43 38 37 N 83 51 00 W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10747	Bay City Yacht Club North Basin Buoy 3					Green can.	Maintained from May 1 to Oct. 15. Private aid.
10748	Bay City Yacht Club North Basin Buoy 4					Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10749	Bay City Yacht Club North Basin Buoy 5					Green can.	Maintained from May 1 to Oct. 15. Private aid.
10750	Bay City Yacht Club North Basin Buoy 6					Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10751	Bay City Yacht Club South Basin Buoy 1	43 38 29 N 83 51 00 W				Green can.	Maintained from May 1 to Oct. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10752	Bay City Yacht Club South Basin Buoy 2	43 38 30 N 83 51 00 W				Red nun.	Maintained from May 1 to Oct. 15. Private aid.
10753	Bay City Yacht Club South Basin Buoy 3					Green can.	Maintained from May 1 to Oct. 15. Private aid.
10754	Bay City Yacht Club South Basin Buoy 4					Red nun.	Maintained from May 1 to Oct. 15. Private aid.
<b>Saginaw River</b>							
<i>Lighted buoys maintained from Apr. 21 to Dec. 14.</i>							
10755	- Buoy 2					Red nun.	
10760	ESSEXVILLE RANGE FRONT LIGHT	43 37 24 N 83 50 18 W	<b>F G</b>	32 10		KRW on black skeleton tower.	
10765	ESSEXVILLE RANGE REAR LIGHT 1,099 feet, 160° from front light.		<b>F G</b>	45 14		KRW on black skeleton tower.	
<i>Lighted buoys maintained from Apr. 21 to Dec. 14.</i>							
10770	- Lighted Buoy 3		<b>FI G</b> 4s		4	Green.	
10775	- Lighted Buoy 4		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10780	- Buoy 5					Green can.	
10785	- Buoy 6					Red nun.	
10790	- Lighted Buoy 7		<b>FI G</b> 4s		4	Green.	Can; winter marker.
10795	- Lighted Buoy 8		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10800	- Lighted Buoy 10		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10805	- Lighted Buoy 12		<b>FI R</b> 2.5s		4	Red.	Nun; winter marker.
10810	- Buoy 14					Red nun.	
10815	- Lighted Buoy 16		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10817	- Buoy 18					Red nun.	
10820	- Buoy 19					Green can.	
10825	- Buoy 20					Red nun.	
10830	- Buoy 21					Green can.	
10835	- Lighted Buoy 23		<b>FI G</b> 4s		4	Green.	Can; winter marker.
10840	- Buoy 25					Green can.	
10845	- Buoy 27					Green can.	
10850	- Lighted Buoy 28		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10855	- Buoy 30					Red nun.	
10860	- Lighted Buoy 31		<b>FI G</b> 4s		4	Green.	Can; winter marker.
10862	- Buoy 33					Green can.	
10865	- Lighted Buoy 35		<b>FI G</b> 4s		4	Green.	Can; winter marker.
10870	- Buoy 37					Green can.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
10875	- Lighted Buoy 36		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10880	- Buoy 39					Green can.	
10885	- Buoy 40					Red nun.	
10890	- Buoy 41					Green can.	
10895	- Buoy 42					Red nun.	
10900	- Lighted Buoy 43		<b>FI G</b> 2.5s		4	Green.	Can; winter marker.
10905	- Lighted Buoy 44		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10910	- Lighted Buoy 45		<b>FI G</b> 4s		4	Green.	Can; winter marker.
10915	- Buoy 46					Red nun.	
10925	- Buoy 47					Green can.	
10930	- Lighted Buoy 48		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10935	- Buoy 49					Green can.	
10940	- Lighted Buoy 50		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10945	- Buoy 52					Red nun.	
10950	- Buoy 53					Green can.	
10955	- Lighted Buoy 54		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10960	- Buoy 55					Green can.	
10965	- Buoy 56					Red nun.	
10970	- Lighted Buoy 57		<b>FI G</b> 4s		4	Green.	Can; winter marker.
10975	- Buoy 59					Green can.	
10980	- Buoy 60					Red nun.	
10985	- Buoy 61					Green can.	
10990	- Lighted Buoy 62		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
10995	- Buoy 63					Green can.	
11000	- Buoy 64					Red nun.	
11005	- Buoy 65					Green can.	
11010	- Buoy 66					Red nun.	
11015	- Buoy 67					Green can.	
11020	- Lighted Buoy 68		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
11035	- Buoy 69					Green can.	
11040	- Buoy 70					Red nun.	
11045	- Lighted Buoy 71		<b>FI G</b> 4s		4	Green.	Can; winter marker.
11050	- Buoy 72					Red nun.	
11055	- Buoy 73					Green can.	
11060	- Buoy 74					Red nun.	
11065	- Buoy 76					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
11070	- Buoy 78					Red nun.	
11075	- Lighted Buoy 80		<b>F I R</b> 4s		4	Red.	Nun; winter marker.
11080	- Buoy 82					Red nun.	
11082	- Buoy 84					Red nun.	
11085	- Buoy 86					Red nun.	
11090	- Buoy 88					Red nun.	
11095	- Buoy 89					Green can.	
<b>Pinconning Park</b>							
<i>Buoys maintained from May 1 to Oct. 1.</i>							
11111	- Buoy 1	43 50 48 N 83 55 06 W				Green.	Private aid.
11112	- Buoy 2					Red.	Private aid.
11113	- Buoy 3					Green.	Private aid.
11114	- Buoy 4					Red.	Private aid.
11115	- Buoy 5					Green.	Private aid.
11116	- Buoy 6					Red.	Private aid.
<b>SAGINAW BAY (Chart 14863)</b>							
<b>Au Gres Harbor</b>							
11140	Point Au Gres Obstruction Buoy	43 59 18 N 83 40 36 W				White with orange bands and diamond worded DANGER SUBMERGED OBSTRUCTION, can.	Maintained from May 1 to Nov. 1.
11145	- Entrance Buoy 1					Green can.	Maintained from May 1 to Nov. 1.
11150	- Entrance Buoy 2					Red nun.	Maintained from May 1 to Nov. 1.
11155	- NORTH PIER LIGHT 4	44 01 12 N 83 40 00 W	<b>F I R</b> 2.5s	26 8	5	TR on white cylindrical tower with red band.	
11160	- SOUTH PIER LIGHT 3		<b>F I G</b> 4s	30 9	6	SG on post.	
11165	ALABASTER TRAMWAY RANGE FRONT LIGHT	44 11 18 N 83 31 54 W	<b>F R</b>	20 6		Gray box.	Private aid.
11170	ALABASTER TRAMWAY RANGE REAR LIGHT 170 feet, 270° from front light.		<b>F R</b>	70 21		Gray box.	Private aid.
11175	Northport Marina Entrance Lighted Buoy 1	44 02 42 N 83 39 12 W	<b>F I G</b> 2.5s			Green.	Maintained from May 1 to Oct. 31. Private aid.
11180	Northport Marina Entrance Lighted Buoy 2	44 02 48 N 83 39 06 W	<b>F I R</b> 2.5s			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
<b>LAKE HURON</b>							
<b>National Gypsum Company</b>							
<i>Aids maintained from Apr. 1 to Dec. 30.</i>							
11190	- RANGE FRONT LIGHT	44 14 18 N 83 32 24 W	<b>F R</b>	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.		<b>F R</b>	78 24		On post.	Light operated only for vessel arrivals and departures. Private aid.
11200	- Buoy 1	44 13 48 N 83 31 00 W				Green can.	Private aid.
11205	- Buoy 2					Red nun.	Private aid.
11210	- Buoy 3	44 14 05 N 83 31 53 W				Green can.	Private aid.
11215	- Buoy 4	44 14 07 N 83 31 52 W				Red nun.	Private aid.
<b>Tawas</b>							
11240	- Light	44 15 12 N 83 26 54 W	<b>Oc W 4s (R sector)</b>	70 21	W 16 R 12	White conical tower, dwelling attached. 68	Red from 045° to 135°. HORN: 2 blasts ev 60s (3s bl-3s sl-3s bl-51s sl). 3,150 feet, 232° from light. Operates May 1 to Oct. 20.
11245	- Point Lighted Buoy 2		<b>FI R 4s</b>		4	Red.	Maintained from Apr. 28 to Dec. 1.
11250	- Harbor Lighted Buoy 4 Marks northwest side of shoal.		<b>FI R 2.5s</b>		4	Red.	Maintained from Apr. 28 to Dec. 1.
11255	- Lighted Buoy 6	44 15 55 N 83 27 10 W	<b>FI R 4s</b>		6	Red.	Maintained from Apr. 28 to Dec. 1.
11265	- BAY YACHT CLUB RANGE FRONT LIGHT		<b>F R</b>	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.		<b>F R</b>	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 42 N 83 26 18 W	<b>F G</b>	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.		<b>F G</b>	20 6		On tree.	Maintained from Apr. 1 to Nov. 1. Private aid.
11285	- BAY HARBOR LIGHT 5		<b>FI G 6s</b>	25 8	6	SG on pile.	
11300	- RIVER RANGE FRONT LIGHT		<b>F R</b>	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.		<b>F R</b>	18 5		White diamond daymark on pile.	Maintained from Apr. 1 to Dec. 1. Private aid.
11306	- BAY CONDO MARINA RANGE FRONT LIGHT		<b>F Y</b>	8 2		Circular orange daymark on pile.	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
<b>LAKE HURON</b>							
11307	- BAY CONDO MARINA RANGE REAR LIGHT 252 feet, 132° from front light.		<b>F Y</b>	15 5		Circular orange daymark on pile.	Maintained from May 1 to Nov. 1. Private aid.
11308.1	- Bay Condo Marina Buoy 1					Green can.	Maintained from May 1 to Nov. 1. Private aid.
11308.2	- Bay Condo Marina Buoy 2					Red nun.	Maintained from May 1 to Nov. 1. Private aid.
11308.3	- BAY CONDO MARINA LIGHT 3	44 15 24 N 83 31 42 W	<b>FI G 2.5s</b>	11 3		SG on pole on south jetty.	Maintained from May 1 to Nov. 1. Private aid.
11308.4	- BAY CONDO MARINA LIGHT 4		<b>FI R 2.5s</b>	11 3		TR on pole on north jetty.	Maintained from May 1 to Nov. 1. Private aid.
<b>Au Sable</b>							
11310	- Point Lighted Buoy 1		<b>FI G 6s</b>		5	Green.	Maintained from Apr. 28 to Dec. 1.
11315	- SOUTH PIERHEAD LIGHT		<b>FI G 4s</b>	25 8	6	SG on white tower.	
11320	- NORTH PIERHEAD LIGHT	44 24 24 N 83 19 00 W	<b>FI R 4s</b>	25 8	7	TR on white tower.	HORN: 1 blast ev 30s (3s bl). Operates from Apr. 15 to Nov. 1. Fog signal is activated by keying the mike, CH 79 VHF 5 times within 5 seconds. Horn will remain active for 30 minutes.
<b>HARRISVILLE TO FORTY MILE POINT (Chart 14864)</b>							
<b>Harrisville</b>							
11325	- EAST BREAKWATER LIGHT		<b>FI G 2.5s</b>	20 6	6	SG on post.	
11330	- WEST BREAKWATER LIGHT	44 39 36 N 83 17 00 W	<b>FI R 4s</b>	33 10	5	TR on column.	
11345	<b>Sturgeon Point Light</b>	44 42 46 N 83 16 21 W	<b>FI W 6s</b>	69 21	14		
<b>Thunder Bay National Marine Sanctuary</b>							
Buoys maintained May 1 through Oct 31.							
11346	TBNMS Wreck Mooring Buoy	44 53 49 N 83 19 39 W	<b>FI W 1s</b>			Mooring buoy.	"Neelie Gardner" Private aid.
11347	TBNMS Wreck Mooring Buoy	44 59 02 N 83 16 01 W	<b>FI W 1s</b>			Mooring buoy.	"Montana (Stern)" Private aid.
11348	TBNMS Wreck Mooring Buoy	44 59 04 N 83 15 11 W	<b>FI W 1s</b>			Mooring buoy.	"Montana (Bow)" Private aid.
11349	TBNMS Wreck Mooring Buoy	44 59 04 N 83 15 58 W	<b>FI W 1s</b>			Mooring buoy.	"North Point" Private aids.
11350	TBNMS Wreck Mooring Buoy	45 00 58 N 83 18 14 W	<b>FI W 1s</b>			Mooring buoy	"Barge 1" Private aid.
11351	TBNMS Wreck Mooring Buoy	45 01 34 N 83 20 51 W	<b>FI W 1s</b>			Mooring buoy.	"Oscar T. Flint" Private aid.
11352	TBNMS Wreck Mooring Buoy	45 02 07 N 83 19 39 W	<b>FI W 1s</b>			Mooring buoy	"Scanlon's Barge" Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
11353	TBNMS Wreck Mooring Buoy	45 03 46 N 83 23 34 W	FI W 1s			Mooring buoy.	"William P. Rend" Private aid.
11354	TBNMS Wreck Mooring Buoy	45 03 03 N 83 26 07 W	FI W 1s			Mooring buoy.	"Shamrock" Private aid.
<b>Alpena</b>							
11355	Thunder Bay Traffic Lighted Bell Buoy	44 58 41 N 83 15 17 W	Mo (A) W		7	Red and white stripes.	Maintained from Apr. 28 to Dec. 1.
11360	North Point Buoy 10 Marks shoal.					Red nun.	
11365	PARTRIDGE POINT MARINA LIGHT	45 01 06 N 83 27 12 W	FI W 2.5s	20 6		White house.	Maintained from Apr. 1 to Nov. 1. Private aid.
11370	- Light	45 03 37 N 83 25 23 W	FI R 6s	44 13	12	Red skeleton tower with upper part enclosed.	HORN: 1 blast ev 15s (2s bl). Operates May 1 to Oct. 20.
11375	- SOUTH BREAKWATER LIGHT	45 03 36 N 83 25 24 W	FI G 2.5s	29 9	5	White tower with green band.	
11380	CITY OF ALPENA HARBOR ENTRANCE LIGHT 1		FI G 4s	15 5		SG on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
11385	CITY OF ALPENA HARBOR ENTRANCE LIGHT 2		FI R 4s	15 5		TR on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
<b>East Alpena Channel</b>							
11386	LAFARGE CORPORATION CHANNEL RANGE FRONT LIGHT	45 04 06 N 83 24 30 W	F R	76 23		Orange and white striped daymark on skeleton tower.	Private aid.
11387	LAFARGE CORPORATION CHANNEL RANGE REAR LIGHT 233 yards, 344° from front light.		F R	109 33		Orange and white stiped daymark on skeleton tower.	Private aid.
11388.1	- Buoy 2					Red nun.	Private aid.
11388.2	- Buoy 3					Green can.	Private aid.
11388.3	- Buoy 4					Red nun.	Private aid.
11388.4	- Buoy 6					Red nun.	Private aid.
11388.5	- Buoy 7					Green can.	Private aid.
11388.6	- Buoy 8					Red nun.	Private aid.
11388.7	- Buoy 9					Green can.	Private aid.
11388.8	- Buoy 10					Red nun.	Private aid.
11388.9	- Buoy 11					Green can.	Private aid.
11389	- Buoy 12					Red nun.	Private aid.
11389.1	- Buoy 13					Green can.	Private aid.
11389.2	- Buoy 14					Red nun.	Private aid.
11389.3	- Buoy 15					Green can.	Private aid.
<b>Alpena</b>							
11390	- Junction Lighted Buoy AL	45 02 58 N 83 24 05 W	FI (2+1) R 6s		4	Red with green band.	Replaced by nun from Dec. 1 to Apr. 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
11395	- Channel Buoy 1					Green can.	
11400	- Channel Buoy 2					Red nun.	
11405	- Channel Buoy 3					Green can.	
11410	- Channel Buoy 4					Red nun.	
11415	- Channel Buoy 5					Green can.	
<b>Lafarge Corporation Channel</b>							
11420	Lafarge Corporation Channel Junction Buoy TB	45 03 26 N 83 25 01 W	<b>FI (2+1) R 6s</b>		4	Red and green bands.	
11425	- RANGE FRONT LIGHT	45 04 06 N 83 25 00 W	<b>F G</b>	22 7		Orange and white striped daymark on gray skeleton tower.	Private aid.
11430	- RANGE REAR LIGHT 133 yards, 358° from front light.		<b>F G</b>	38 12		Orange and white striped daymark on gray skeleton tower.	Private aid.
<b>East Alpena Channel</b>							
<b>Thunder Bay National Marine Sanctuary</b>							
11450	TBNMS Wreck Mooring Buoy	44 57 55 N 83 06 10 W	<b>FI W 1s</b>			Mooring buoy.	"Pewabic" Private light.
11451	TBNMS Wreck Mooring Buoy	44 58 06 N 83 12 00 W	<b>FI W 1s</b>			Mooring buoy.	"Grecian (Bow)" Private aid.
11452	TBNMS Wreck Mooring Buoy	44 58 06 N 83 11 56 W	<b>FI W 1s</b>			Mooring buoy.	"Grecian (Stern)" Private aid.
11453	TBNMS Wreck Mooring Buoy	44 58 35 N 83 13 17 W	<b>FI W 1s</b>			Mooring buoy	"Carbide Barge" Private aid.
11454	TBNMS Wreck Mooring Buoy	45 00 59 N 83 09 53 W	<b>FI W 1s</b>			Mooring buoy.	"E. B. Allen" Private aid.
11455	TBNMS Wreck Mooring Buoy	45 02 00 N 83 11 59 W	<b>FI W 1s</b>			Mooring buoy.	"Monohansett" Private light.
11456	TBNMS Wreck Mooring Buoy	45 02 36 N 83 14 23 W	<b>FI W 1s</b>			Mooring buoy.	"New Orleans" Private aid.
11457	TBNMS Wreck Mooring Buoy	45 02 21 N 83 11 33 W	<b>FI W 1s</b>			Mooring buoy.	"TBI Reef" Private aid.
11458	TBNMS Wreck Mooring Buoy	45 02 42 N 83 10 12 W	<b>FI W 1s</b>			Mooring buoy.	"William P. Thew" Private aid.
11459	TBNMS Wreck Mooring Buoy	45 03 23 N 83 10 11 W	<b>FI W 1s</b>			Mooring buoy.	"Lucinda Van Valkenburg" Private aid.
11460	TBNMS Wreck Mooring Buoy	45 03 05 N 83 02 22 W	<b>FI W 1s</b>			Mooring buoy.	"Isaac M. Scott" Private light.
11461	TBNMS Wreck Mooring Buoy	45 08 13 N 83 09 32 W	<b>FI W 1s</b>			Mooring buoy.	"Nordmeer" Private aid.
11462	TBNMS Wreck Mooring Buoy	45 10 05 N 83 13 04 W	<b>FI W 1s</b>			Mooring buoy.	"New Orleans" Private aid.
11463	TBNMS Wreck Mooring Buoy	45 12 04 N 83 19 49 W	<b>FI W 1s</b>			Mooring buoy.	"Middle Island Sink Holes" Private aid.
<b>HARRISVILLE TO FORTY MILE POINT (Chart 14864)</b>							
11495	<b>Thunder Bay Island Light</b>	45 02 12 N 83 11 42 W	<b>AI GW 20s</b>	63 19	17	Conical tower with dwelling attached.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
11500	STONYCROFT POINT LIGHT	45 06 24 N 83 18 30 W	<b>Q W</b>	30 9		TR on red skeleton tower.	Maintained from Mar. 15 to Nov. 15. Private aid.
11505	<i>Nordmeer Wreck Lighted Buoy WR1</i> 1,470 feet, 102° from last reported position of wreck.	45 08 09 N 83 09 18 W	<b>FI G</b> 4s		4	Green.	RACON: N (-•). Maintained from Apr. 28 to Dec. 1.
11510	<i>NOAA Lighted Weather Buoy 45003</i>	45 21 01 N 82 50 17 W	<b>FI (4) Y</b> 20s			Yellow, disc-shaped hull.	Replaced by nun from Nov. 14 to May 14.
11515	<b>Middle Island Light</b>	45 11 36 N 83 19 18 W	<b>FI W</b> 10s	78 24	17	White conical tower with orange bands in middle with dwelling detached. 71	
11520	<i>Middle Island Lighted Buoy 13</i> Marks northeast side of shoal.		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 28 to Dec. 1.
11525	ROCKPORT HARBOR CRIB LIGHT R	45 12 18 N 83 22 54 W	<b>FI W</b> 4s	12 4		NB on red skeleton tower on crib.	Maintained from Apr. 15 to Nov. 1. Private aid.
11530	<b>Stoneport Light</b>	45 17 48 N 83 25 06 W	<b>AI WR</b> 60s 3s W fl 27s ec. 3s R fl 27s ec.	55 17	W 25 R 21	White cylindrical structure.	Maintained from Apr. 1 to Dec. 31. Private aid.
11535	Stoneport Approach Buoy 1					Green can.	
11540	Stoneport Buoy 3					Green can.	Maintained from Apr. 1 to Dec. 1. Private aid.
11545	Stoneport Buoy 5					Green can.	Maintained from Apr. 1 to Dec. 1. Private aid.
<b>Presque Isle Harbor</b>							
11550	<b>Presque Isle Light</b>	45 21 24 N 83 29 30 W	<b>FI W</b> 15s	123 37	20	White conical tower with dwelling attached.	Standby light of reduced intensity.
11560	<i>Presque Isle Harbor Entrance Shoal Lighted Bell Buoy 2</i>	45 20 21 N 83 27 51 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 28 to Dec. 1.
11565	- RANGE FRONT LIGHT	45 20 18 N 83 29 24 W	<b>F G</b>	23 7		KRW on skeleton tower. 18	
11570	- RANGE REAR LIGHT 790 feet, 274° from front light.		<b>F G</b>	36 11		KRW on skeleton tower. 33	
<b>Presque Isle Harbor Marina</b>							
<i>Lights and buoys maintained from May 15 to Oct 1.</i>							
11574	- Entrance Lighted Buoy 2	45 20 18 N 83 28 57 W	<b>Q R</b>			Red.	Private aid.
11575	- Entrance Lighted Buoy 3	45 20 16 N 83 29 06 W	<b>Q G</b>			Green.	Private aid.
11580	- Entrance Buoy 4					Red nun.	Private aid.
11585	- Entrance Buoy 5					Green can.	Private aid.
11590	- Entrance Buoy 6					Red nun.	Private aid.
11595	- Entrance Buoy 7					Green can.	Private aid.
11595.5	- Entrance Buoy 8					Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON</b>							
11596	- Entrance Buoy 9					Green can.	Private aid.
11600	- ENTRANCE LIGHT 10	45 20 24 N 83 29 09 W	FI R 2.5s	26 8		TR on post.	Private aid. HORN: 1 blast ev 20s (2s bl).
11605	- ENTRANCE LIGHT 11	45 20 24 N 83 29 11 W	FI G 4s	26 8		SG on post.	Private aid.
<b>Calcite</b>							
<i>Aids maintained from May 1 to Dec. 1.</i>							
11610	- BREAKWATER LIGHT 2	45 25 00 N 83 46 24 W	Iso R 4s	49 15		TR on skeleton tower.	Private aid. HORN: 1 blast ev 20s (2s bl).
11630	- INCOMING RANGE FRONT LIGHT		F R	30 9		White diamond daymark on conveyor house.	Private aid.
11635	- INCOMING RANGE REAR LIGHT 500 feet, 236° from front light.		F R	110 34		On side of brick house.	Private aid.
11640	- OUTGOING RANGE FRONT LIGHT		F G	52 16		Two lights, 10 feet apart horizontal.	Private aid.
11645	- OUTGOING RANGE REAR LIGHT 160 feet, 236° from front light.		F G	78 24		Box on conveyor structure.	Private aid.
<b>Rogers City</b>							
<i>Buoys maintained from Jun. 1 to Oct. 1.</i>							
11660	- Harbor Channel Lighted Buoy 1	45 25 26 N 83 48 27 W	Iso G 2s			Green.	Private aid.
11665	- Harbor Channel Lighted Buoy 2	45 25 27 N 83 48 29 W	Iso R 2s			Red.	Private aid.
11670	- Harbor Channel Lighted Buoy 3		FI G 2.5s			Green.	Private aid.
11675	- Harbor Channel Lighted Buoy 4		FI R 2.5s			Red.	Private aid.
11680	- Harbor Channel Lighted Buoy 5		FI G 4s			Green.	Private aid.
11685	- Harbor Channel Lighted Buoy 6		FI R 4s			Red.	Private aid.
11690	- Harbor Channel Lighted Buoy 7		FI G 4s			Green.	Private aid.
11695	- HARBOR CHANNEL BREAKWATER LIGHT 8	45 25 22 N 83 48 33 W	FI R 2.5s	25 8		TR on pole.	Private aid.
11700	- HARBOR CHANNEL BREAKWATER LIGHT 9		FI G 2.5s	25 8		SG on pole.	Private aid.
11715	<b>Forty-Mile Point Light</b>	45 29 12 N 83 54 48 W	Iso W 6s	66 20	16	White square brick tower on dwelling. 53	



# Section 9

## Straits of Mackinac

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
<b>DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)</b>							
<b>South Channel</b>							
11720	HAMMOND BAY HARBOR OF REFUGE EAST BREAKWATER LIGHT	45 35 36 N 84 09 42 W	<b>FI G</b> 2.5s	25 <b>8</b>	5	SG on post.	
11725	HAMMOND BAY HARBOR OF REFUGE WEST BREAKWATER LIGHT		<b>FI R</b> 4s	25 <b>8</b>	4	TR on post.	
11730	<b>Spectacle Reef Light</b> Marks west side of reef.	45 46 24 N 84 08 12 W	<b>FI R</b> 5s	86 <b>26</b>	11	Gray conical tower on square concrete pier.	
11735	Raynolds Reef Buoy 1					Green can.	
11740	Raynolds Reef Buoy 2					Red nun.	
11745	<i>Cordwood Point Lighted Buoy 1</i> Marks north side of shoal.		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
11750	<b>Poe Reef Light</b>	45 41 42 N 84 21 42 W	<b>Iso W</b> 2s	71 <b>22</b>	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					Red nun.	
11765	<b>Fourteen Foot Shoal Light</b>	45 40 48 N 84 26 06 W	<b>Oc W</b> 4s	51 <b>16</b>	10	White conical tower, square structure on concrete crib.	Operates year round. HORN: 1 blast ev 15s (2s bl).
11770	Fourteen Foot Shoal Buoy 3					Green can.	Maintained from Apr. 28 to Dec. 7.
11775	BOIS BLANC TOWNSHIP DOCK LIGHT		<b>Q G</b>	17 <b>5</b>		On pile.	Maintained from May 1 to Dec. 1. Private aid.
<b>Cheboygan</b>							
11780	- <i>River Entrance Lighted Buoy 2</i>	45 39 58 N 84 27 23 W	<b>Q R</b>		4	Red.	Replaced by LIB (Q R) from Dec. 7 to May 1.
11785	- River Entrance Buoy 3					Green can.	
11790	- RIVER RANGE FRONT LIGHT	45 38 51 N 84 28 22 W	<b>F R</b>	45 <b>14</b>		KRW on white square tower on dwelling. 45	
11795	- RIVER RANGE REAR LIGHT 1,115 feet, 212.5° from front light.		<b>F R</b>	75 <b>23</b>		KRW on skeleton tower. 80	
11800	- <b>River Light 4</b>		<b>FI R</b> 4s	25 <b>8</b>	10	TR on white cylindrical tower.	
<b>MICHIGAN INLAND ROUTE (Chart 14886)</b>							
<b>Cheboygan River</b>							
11806	Cheboygan River Buoy 1	45 38 08 N 84 28 49 W					Maintained from May 15 to Oct. 15.
11810	- Daybeacon 3					SG on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
11815	- Daybeacon 5					SG on pile.	
11820	- Daybeacon 6					TR on pile.	
11825	- Daybeacon 7					SG on pile.	
11830	- Daybeacon 9					SG on pile.	
11835	- Daybeacon 11					SG on pile.	
11840	- Daybeacon 12					TR on pile.	
11845	- Daybeacon 13					SG on pile.	
11850	- Daybeacon 14					TR on pile.	
11855	- Daybeacon 15					SG on pile.	
11860	- Daybeacon 16					TR on pile.	
11865	- Daybeacon 17					SG on pile.	
11870	- Daybeacon 18					TR on pile.	
11875	- Daybeacon 19					SG on pile.	
11880	- Daybeacon 20					TR on pile.	
11885	- Daybeacon 21					SG on pile.	
<b>Mullett Lake</b>							
11890	- LIGHT 21A		<b>FI G 4s</b>	24 7	4	SG on pole.	
11895	- LIGHT 23		<b>FI G 6s</b>	16 5	3	SG on dolphin.	
11900	- <i>Lighted Buoy 24</i>		<b>FI R 4s</b>		3	Red.	Maintained from May 15 to Oct. 15.
11905	ALOHA STATE PARK NORTH JETTY LIGHT		<b>FI G 2.5s</b>	16 5		On pile.	Maintained from May 1 to Dec. 1. Private aid.
11910	ALOHA STATE PARK SOUTH JETTY LIGHT		<b>FI R 2.5s</b>	16 5		On pile.	Maintained from May 1 to Dec. 1. Private aid.
11915	- <i>Lighted Buoy 24A</i>		<b>FI R 4s</b>		3	Red.	Maintained from May 15 to Oct. 15.
<b>Indian River</b>							
11920	- Daybeacon 25					SG on pile.	
11925	- Daybeacon 27					SG on pile.	
11930	- Daybeacon 27A					SG on pile.	
11935	- Daybeacon 28					TR on pile.	
11940	- Daybeacon 29					SG on pile.	
11945	- Daybeacon 30					TR on pile.	
11950	- Daybeacon 31					SG on pile.	
11955	- Daybeacon 32					TR on pile.	
11960	- Daybeacon 34					TR on pile.	
11965	- Daybeacon 35					SG on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
11970	- Daybeacon 37					SG on pile.	
11975	- Daybeacon 39					SG on pile.	
11976	- Daybeacon 39A					SG on pile.	
11980	- Daybeacon 40					TR on pile.	
11985	- Daybeacon 41					SG on pile.	
11990	- Daybeacon 42					TR on pile.	
11995	- Daybeacon 43					SG on pile.	
12000	- Daybeacon 44					TR on pile.	
12005	- Daybeacon 45					SG on pile.	
12010	- Daybeacon 46					TR on pile.	
12015	- Daybeacon 47					SG on pile.	
12020	- Daybeacon 48					TR on pile.	
12025	- Daybeacon 50					TR on pile.	
12030	- Daybeacon 52					TR on pile.	
12035	- Daybeacon 53					SG on pile.	
12040	- Daybeacon 54					TR on pile.	
12045	- Daybeacon 55					SG on pile.	
12050	- Daybeacon 57					SG on pile.	
12055	- Daybeacon 58					TR on pile.	
12060	- Daybeacon 60					TR on pile.	
12065	- Daybeacon 61					SG on pile.	
12070	- Daybeacon 62					TR on pile.	
12075	- Daybeacon 63					SG on pile.	
12080	- Daybeacon 66					TR on pile.	
12085	- Daybeacon 67					SG on pile.	
12090	- Daybeacon 68					TR on pile.	
<b>Burt Lake</b>							
12095	- LIGHT 70		<b>F I R</b> 4s	24 7	4	TR on pile.	
12100	<i>Obstruction Buoy</i>					White with orange bands.	Maintained from May 15 to Oct. 15. Worded: SUBMERGED OBJECT.
12105	- LIGHT 71		<b>F I G</b> 4s	15 5	4	SG on pile.	
<b>Crooked River</b>							
12110	- Daybeacon 73					SG on pile.	
12115	- Daybeacon 75					SG on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
<b>Crooked Lake</b>							
<i>Buoys maintained from May 7 to Nov. 1.</i>							
12120	- LIGHT 77		<b>FI G</b> 4s	15 5	4	SG on pile.	
12125	- Daybeacon 79					SG on pile.	
12130	- Daybeacon 80					TR on pile.	
12135	PICKEREL CHANNEL ENTRANCE LIGHT 2	45 24 54 N 84 47 42 W	<b>FI R</b> 4s	15 5	4	TR on pile.	
12140	- Daybeacon 81					SG on pile.	
12145	- Daybeacon 82					TR on pile.	
12150	- Daybeacon 83					SG on pile.	
12155	- Daybeacon 84					TR on pile.	
12160	- Daybeacon 85					SG on pile.	
12165	- Daybeacon 86					TR on pile.	
12170	- Daybeacon 87					SG on pile.	
<b>DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)</b>							
<b>South Channel</b>							
12175	Cheboygan Buoy 5					Green can.	
12180	<i>Cheboygan Traffic Lighted Bell Buoy</i>		<b>Mo (A) W</b>		7	Red and white stripes.	NOTE: Vessels are requested to leave buoy on port hand in passing. Maintained from Apr. 21 to Dec. 7.
12185	Zela Shoal Buoy 6 Marks west side of shoal.					Red nun.	
12191	EAST BREAKWATER LT 1	45 46 44 N 84 34 14 W	<b>FI G</b> 2.5s				Maintained from May 1 to Oct 15. Private aid.
12192	WEST BREAKWATER LT 2	45 46 43 N 84 43 10 W	<b>FI R</b> 2.5s				Maintained from May 1 to Oct 15. Private aid.
12195	MACKINAW CITY HARBOR ENTRANCE LIGHT 1		<b>FI G</b> 2.5s	25 8	5	SG on pile.	
12200	MACKINAW CITY HARBOR ENTRANCE LIGHT 2		<b>FI R</b> 4s	25 8	4	TR on pile.	
<b>North End of Lake Huron</b>							
12205	<b>Martin Reef Light</b> Marks south side of reef.	45 54 48 N 84 08 54 W	<b>AI WR</b> 10s	65 20	13	White square tower on concrete crib.	HORN: 1 blast ev 30s (3s bl). Operates year round.
12210	<i>Pomeroy Reef Lighted Gong Buoy 2PR</i> Marks west side of Pomeroy Reef.		<b>FI R</b> 4s		5	Red.	Replaced by nun from Nov. 28 to May 1.
12215	Tobin Reef Buoy 1 Marks northwest side of reef.					Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
<b>LES CHENEAUX ISLANDS (Chart 14885)</b>							
12220	<b>Crow Island Leading Light</b>	45 58 06 N 84 14 24 W	<b>Iso W 2s</b>	31 9	13	Black rectangular daymark on gray tower.	Higher intensity beam on bearing 160° diminishing around remainder of horizon.
12222	<i>Les Cheneaux Island Lighted Buoy 2</i>		<b>FI R 6s</b>		4	Red.	Replaced by nun from Dec. 1 to May 1.
12225	<i>Les Cheneaux Island Lighted Buoy 3</i>		<b>FI G 6s</b>		4	Green.	Replaced by can from Dec. 1 to May 1.
12230	<i>Les Cheneaux Island Lighted Buoy 4</i>		<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 1 to May 1.
12235	<i>Les Cheneaux Island Lighted Buoy 5</i>		<b>FI G 2.5s</b>		4	Green.	Replaced by can from Dec. 1 to May 1.
12240	<i>Port Dolomite Lighted Buoy 7</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 1 to May 1.
12243	Port Dolomite Buoy 9					Green can.	
12245	McKAY BAY RANGE FRONT LIGHT	45 59 00 N 84 16 30 W	<b>F R</b>	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.		<b>F R</b>	58 18		NR on white structure.	Maintained from Apr. 1 to Dec. 1. Private aid.
12260	<i>Penny Island Point Lighted Buoy 1</i> Marks shoal.	45 56 53 N 84 17 06 W	<b>FI G 4s</b>		4	Green.	Maintained from May 14 to Oct. 21.
12265	Scammons Harbor Buoy 3					Green can.	Maintained from May 14 to Oct. 21.
12270	<i>Scammons Harbor Lighted Buoy 4</i>		<b>FI R 2.5s</b>		4	Red.	Maintained from May 14 to Oct. 21.
12275	ISLE ISIDORE LIGHT	45 58 12 N 84 18 18 W	<b>FI W 4s</b>	15 5		White triangular tower.	Maintained from Jul. to Sep. Private aid.
<b>Cedarville East Channel</b>							
<i>Buoys maintained from May 14 to Oct. 21.</i>							
12280	- Buoy 5 Marks east side of shoal.					Green can.	
12285	- Buoy 6					Red nun.	
12290	<i>Cedarville East Channel Lighted Buoy 7</i>	45 59 16 N 84 20 02 W	<b>FI G 4s</b>		3	Green.	
12295	- Buoy 8					Red nun.	
12300	- Buoy 9					Green can.	
12305	- <i>Lighted Buoy 10</i>		<b>Q R</b>		4	Red.	
12310	- Buoy 11					Green can.	
12315	- Buoy 12					Red nun.	
12320	- Buoy 13					Green can.	
<b>Les Cheneaux Islands Middle Entrance</b>							
12325	- Buoy 1 Marks southeast side of shoal.	45 56 48 N 84 20 00 W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
<i>Buoys maintained from May 14 to Oct. 21.</i>							
12330	- Buoy 3					Green can.	
12335	- Buoy 4					Red nun.	
12340	- <i>Lighted Buoy 5</i>	45 57 24 N 84 21 12 W	<b>FI G</b> 2.5s		3	Green.	
12345	- Buoy 7					Green can.	
12350	- Buoy 8					Red nun.	
12355	- <i>Lighted Buoy 10</i>		<b>Q R</b>		4	Red.	
12360	Goose Island Buoy 1					Green can.	Maintained year round.
12365	Goose Island Shoal Buoy 1 Marks southeast side of shoal.					Green can.	Maintained year round.
12370	<i>Goose Island Shoal Lighted Buoy 2</i> Marks northwest side of shoal.		<b>FI R</b> 4s		4	Red.	Replaced by nun from Oct. 21 to May 14.
<b>Les Cheneaux Islands West Entrance</b>							
<i>Buoys maintained from May 14 to Oct. 21.</i>							
12375	- <i>Lighted Buoy 1</i> Marks shoal.	45 57 48 N 84 27 06 W	<b>FI G</b> 4s		4	Green.	
12380	- <i>Lighted Buoy 2</i> Marks northwest side of shoal.		<b>FI R</b> 4s		4	Red.	
12385	- <i>Lighted Buoy 3</i> Marks shoal.		<b>FI G</b> 4s		4	Green.	
12390	- <i>Lighted Buoy 4</i> Marks west side of shoal.		<b>FI R</b> 4s		4	Red.	
12395	- Buoy 5					Green can.	
12400	- Buoy 6					Red nun.	
12405	- Buoy 8					Red nun.	
<b>Mackinac Bay Passage</b>							
12410	<i>Mackinac Bay Passage Lighted Buoy 10</i>		<b>FI R</b> 2.5s		4	Red.	
12415	- Buoy 11					Green can.	
12420	- Buoy 12					Red nun.	
12425	- Buoy 13					Green can.	
12430	- Buoy 14					Red nun.	
12435	- Buoy 15					Green can.	
12440	- Buoy 16					Red nun.	
12441	Mackinac Bay Passage Buoy 16A	42 36 58 N 82 49 06 W				Red nun.	
12445	- Buoy 17					Green can.	
12450	- Buoy 18					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
12455	- Buoy 19					Green can.	
12460	- Buoy 20					Red nun.	
12465	- Buoy 21					Green can.	
12470	- Buoy 22					Red nun.	
12475	- Buoy 23					Green can.	
<b>Muscallonge Bay</b>							
<i>Buoys maintained from May 14 to Oct. 21.</i>							
12480	- Buoy 24					Red nun.	
12485	- Buoy 25					Green can.	
12490	- Buoy 26					Red nun.	
12495	- Buoy 27					Green can.	
12500	- Lighted Buoy 29		<b>FI G 4s</b>		4	Green.	
<b>Cedarville West Channel</b>							
<i>Buoys maintained from May 14 to Oct. 21.</i>							
12505	- Buoy 30					Red nun.	
12510	- Lighted Buoy 31		<b>FI G 4s</b>		4	Green.	
12515	- Buoy 32					Red nun.	
12520	- Lighted Buoy 33		<b>Q G</b>		4	Green.	
12525	- Buoy 34					Red nun.	
12530	- Buoy 35					Green can.	
<b>DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)</b>							
12535	BOIS BLANC LIGHT	45 48 36 N 84 25 18 W	<b>FI W 2.5s</b>	32 10	7	White cylindrical tower. 17	Visible from 101° to 311°.
<b>Round Island Passage</b>							
12540	<i>Mission Point Lighted Bell Buoy 2 Marks shoal.</i>		<b>Q R</b>		4	Red.	Replaced by nun from Dec. 7 to Apr. 28.
12545	MACKINAC ISLAND EAST BREAKWATER LIGHT 2	45 50 47 N 84 36 32 W	<b>FI R 2.5s</b>	25 8	5	TR on white pile.	
12550	MACKINAC ISLAND WEST BREAKWATER LIGHT 1		<b>FI G 2.5s</b>	33 10	4	SG on post.	
12565	PASSENGER PIERHEAD LIGHT		<b>F R</b>	20 6		On white post.	Maintained from May 1 to Oct. 1. Private aid. BELL: Hand.
12570	COAL DOCK PIERHEAD LIGHT		<b>F W</b>	14 4		On white post.	Maintained from May 1 to Oct. 1. Private aid.
12575	<i>Round Island Lighted Buoy 3 Marks shoal.</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAITS OF MACKINAC</b>							
12580	<b>- Light</b>	45 50 36 N 84 36 54 W	<b>FI R</b> 5s	71 22	14	Lighthouse.	RACON: X (---••-). HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
12585	OLD ROUND ISLAND POINT LIGHT	45 50 12 N 84 37 00 W	<b>FI W</b> 10s	53 16		Red and white conical tower.	Private aid.
12590	<i>Round Island Shoal Lighted Buoy 5</i> Marks shoal.		<b>Q G</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
12595	Majors Shoal East Buoy 1 Marks east side of shoal.					Green can.	Replaced by smaller can from Dec. 7 to Apr. 28.
12600	<i>Majors Shoal Lighted Buoy 3</i> Marks west side of shoal.		<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
12605	<i>North Graham Shoal Lighted Bell Buoy 3</i> Marks east side of shoal.		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 28.
12607	ST. IGNACE COAST GUARD SLIP LIGHT	45 51 18 N 84 42 06 W	<b>FI W</b> 6s	16 5	3	NW on dolphin.	
12608	WAWATAM LIGHTHOUSE	45 51 57 N 84 42 56 W	<b>FI W</b> 5s		13	Lighthouse.	Private aid.
12609	St. Ignacc Marina Entrance Light 1	45 51 57 N 84 43 03 W	<b>FI G</b> 2.5s	25 8	3	SG on white pole.	Private aid.
12609.5	St. Ignacc Marina Entrance Light 2	45 51 58 N 84 43 00 W	<b>FI R</b> 2.5s	25 8	4	TR on white pole.	Private aid.
12610	St. Ignacc Marina North Break Wall Light	45 52 04 N 84 43 04 W	<b>FI Y</b> 2.5s	25 8	3	NY on white pole.	Private aid.
12615	NORTHWESTERN DOCK LIGHT	45 52 30 N 84 42 54 W	<b>Q W</b>	20 6		On middle of three mooring dolphins.	Maintained from Apr. 15 to Dec. 15. Private aid.
<b>Mackinaw Bridge</b>							
<i>Buoys maintained from Apr. 28 to Dec. 7.</i>							
12625	<i>- Lighted Bell Buoy 1</i>	45 48 29 N 84 42 26 W	<b>FI G</b> 4s		4	Green.	
12630	<i>- Mackinac Bridge Lighted Gong Buoy 2</i>	45 49 08 N 84 42 27 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 28 to Dec. 1.
12635	South Graham Shoal Buoy 2A Marks south side of shoal.					Red nun.	
12640	<b>- Fog Signal</b>					On center span of Mackinac Bridge.	Private aid. HORN: 2 blasts ev 20s (2s bl- 2s si-2s bl-14s si).
12645	<i>- Mackinac Bridge Lighted Bell Buoy 3</i>	45 48 39 N 84 44 08 W	<b>FI G</b> 2.5s		5	Green.	Maintained from Apr. 28 to Dec. 1.
12650	<i>- Mackinac Bridge Lighted Gong Buoy 4</i>	45 49 16 N 84 44 08 W	<b>FI R</b> 2.5s		5	Red.	Maintained Apr. 28 to Dec. 1.



# Section 10

## Lake Huron, Canada and St. Mary's River

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE HURON, CANADA</b>							
<b>PORT HURON TO PTE AUX BARQUES (Chart 14862)</b>							
<b>East Side</b>							
12660	<b>Goderich (Main) Light</b> (C)	43 44 30 N 81 43 36 W	<b>FI (2) W</b> 25s 0.5s fl 5.5s ec. 0.5s fl 18.5s ec.	140 <b>43</b>	18	White square tower with red top. 33	Seasonal.
12670	<b>Point Clark Light</b> (C)	44 04 24 N 81 45 24 W	<b>FI W</b> 3.5s	93 <b>28</b>	16	White circular tower. 69	Seasonal.
12675	<b>Cove Island Light</b> (C)	45 19 36 N 81 44 06 W	<b>FI W</b> 5s	101 <b>31</b>	18	White circular tower with dwelling attached.	Seasonal. Emergency light.
12685	<b>Great Duck Island Light</b> (C)	45 38 30 N 82 57 48 W	<b>FI (3) W</b> 15s fl 2.5s ec. fl 2.5s ec. fl 10s ec.	108 <b>33</b>		White octagonal tower. 85	Seasonal. Emergency light.
<b>ST. MARYS RIVER</b>							
<b>DE TOUR PASSAGE TO MUNUSCONG LAKE (Chart 14882)</b>							
<b>Potagannissing Bay</b>							
12690	BURNT ISLAND REEF LIGHT 1		<b>FI G</b> 4s	40 <b>12</b>	5	SG on skeleton tower. 30	
12695	<i>Bacon Shoal Lighted Buoy 3</i>		<b>FI G</b> 2.5s		4	Green.	Replaced by can from Oct. 28 to May 14.
12700	Big Trout Island Buoy 4					Red nun.	
12704	Bow Island Buoy 1	46 02 01 N 83 49 30 W				Green can.	
12705	Sturgeon Bay Shoal Buoy 2					Red nun.	
12707	Gull Island Buoy 3					Green can.	
12710	Cheney Shoal Buoy 5					Green can.	Maintained from May 14 to Oct. 28.
12715	<i>Wreck Island Lighted Buoy 6</i>		<b>FI R</b> 2.5s		4	Red.	Maintained from May 14 to Oct. 28.
12720	Howard Island Buoy 7					Green can.	Maintained from May 14 to Oct. 28.
<b>Drummond Island Shoal Yacht Haven Channel</b>							
<i>Aids maintained from May 15 to Oct. 15.</i>							
12725	- Buoy 1	46 01 42 N 83 44 48 W				Green can.	Private aid.
12730	- Buoy 2					Red nun.	Private aid.
12735	- Buoy 3					Green can.	Private aid.
12740	- Buoy 4					Red nun.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
12743	Roggs Island Buoy 9	46 02 06 N 83 44 27 W				Green can.	Maintained from May 14 to Oct. 28.
12745	Roggs Island Buoy 8					Red nun.	Maintained from May 14 to Oct. 28.
12746	Quarry Island Buoy 10	46 02 00 N 83 44 01 W				Red nun.	Maintained from May 14 to Oct. 28.
12750	Quarry Island Buoy 11	46 02 09 N 83 43 56 W				Green can.	Maintained from May 14 to Oct. 28.
12751	Quarry Island Buoy 13	46 02 20 N 83 43 52 W				Green can.	Maintained from May 14 to Oct. 28.
12752	La Pointe Island Buoy 14	46 02 20 N 83 43 46 W				Red nun.	Maintained from May 14 to Oct. 28.
12753	Grape Island Lighted Buoy 16	46 02 44 N 83 43 49 W	<b>FI R 4s</b>		4	Red.	Maintained from May 14 to Oct. 28.
12755	Harbor Island Shoal Buoy 17	46 03 43 N 83 44 08 W				Green can.	Maintained from May 14 to Oct. 28.
12760	Propeller Island Shoal Buoy 19	46 04 45 N 83 44 20 W				Green can.	Maintained from May 14 to Oct. 28.
12762	Bruce Point Buoy 21	46 05 02 N 83 44 27 W				Green can.	Maintained from May 14 to Oct. 28.
12763	Bruce Point Buoy 22	46 05 03 N 83 44 08 W				Red nun.	Maintained from May 14 to Oct. 28.
<b>Drummond Island - South Side</b>							
12765	Big Shoal Buoy 2					Red nun.	
12770	<b>De Tour Reef Light</b>	45 56 54 N 83 54 12 W	<b>FI W 10s (R sector)</b>	74 23	W 18 R 15	White square superstructure square tower on concrete crib.	Red from 079.5° to 189.5°. RACON (x/s): D (-••). HORN: 2 blasts ev 60s (3s bl-3s si-3s bl-51s si). Operates Apr. 1 to Nov. 1.
<b>Whitney Bay</b>							
<i>Aids maintained from Jun. 1 to Oct. 1.</i>							
12780	- East Entrance Buoy 2					Red nun.	Private aid.
12785	- East Entrance Buoy 4					Red nun.	Private aid.
12790	- East Entrance Buoy 6					Red nun.	Private aid.
12795	- West Entrance Buoy 1					Green can.	Private aid.
12800	- West Entrance Buoy 3					Green can.	Private aid.
12805	- West Entrance Buoy 4					Red nun.	Private aid.
12810	- West Entrance Buoy 5					Green can.	Private aid.
<b>De Tour Passage</b>							
12815	- Lighted Buoy 2		<b>FI R 6s</b>		5	Red.	Replaced by nun from Dec. 7 to May 1.
12820	- Buoy 3					Green can.	
12825	Crab Island Shoal Lighted Bell Buoy 4 Marks west side of shoal.		<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 7 to May 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
12830	Drummond Island Shoal Buoy 6					Red nun.	
12835	FRYING PAN ISLAND LIGHT 7	45 59 12 N 83 53 48 W	<b>Q G</b>	20 <b>6</b>	5	SG on post. 20	Higher intensity beam on bearing 176° and 356° diminishing around remainder of horizon.
12840	DETOUR HARBOR ENTRANCE LIGHT 2	45 59 42 N 83 54 00 W	<b>FI R 4s</b>	28 <b>9</b>	3	TR on pile.	
12845	Drummond Island Shoal Buoy 8	45 59 12 N 83 52 48 W				Red nun.	
<b>Lower River</b>							
12850	WATSON REEFS LIGHT 9A		<b>FI G 4s</b>	33 <b>10</b>	6	SG on post on tripod foundation.	Higher intensity beam upstream.
12855	Watson Reefs Buoy 9 Marks east side of reef.					Green can.	
12860	Watson Reefs Buoy 11					Green can.	
12865	<i>Pipe Island Shoal</i> <i>Lighted Buoy 1</i> Marks southeast side of shoal.		<b>FI G 2.5s</b>		5	Green.	Replaced by can from Dec. 7 to May 1.
12870	Sims Point Buoy 2					Red nun.	
<b>Pipe Island</b>							
12875	<b>- Light</b>	46 01 00 N 83 54 00 W	<b>FI W 5s</b>	52 <b>16</b>	17	KRW on yellow octagonal tower with black skeleton superstructure. 44	
12880	<i>- Lighted Buoy 12</i>		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 7 to May 1.
12885	<i>- TWINS LIGHT</i>	46 01 36 N 83 53 30 W	<b>FI W 2.5s</b>	27 <b>8</b>	6	NG on post.	
12890	<i>- Twins Lighted Buoy 3</i>	46 01 43 N 83 53 25 W	<b>Q G</b>		4	Green.	Replaced by can from Dec. 7 to May 1.
<b>Lower River</b>							
12895	SQUAW ISLAND LIGHT 4	46 02 18 N 83 54 18 W	<b>FI R 2.5s</b>	26 <b>8</b>	5	TR on post.	
12905	SWEETS POINT LIGHT 13 Marks north side of shoal.	46 02 18 N 83 56 12 W	<b>FI G 2.5s</b>	20 <b>6</b>	5	White cylindrical tower with green stripe in middle.	Higher intensity beam on bearings 316° and 121° diminishing around remainder of horizon.
<b>Lime Island</b>							
12907	<i>- Lighted Buoy 14</i>	46 03 17 N 83 57 37 W	<b>FI R 4s</b>		3	Red.	Replaced by nun from Dec. 7 to May 1.
12910	<i>- Lighted Buoy 14A</i>		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 7 to May 1.
12915	<i>- Traffic Lighted Buoy</i>		<b>Mo (A) W</b>		7	Red and white stripes.	Vessels are required to leave buoy to port when passing. Replaced by LIB from Dec. 7 to May 1.
12920	<i>- Lighted Buoy 15</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 7 to May 1.
12925	<i>- COAL DOCK LIGHT</i>	46 05 12 N 84 00 48 W	<b>Oc Y 4s</b>	27 <b>8</b>	4	On post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
12930	- COAL DOCK PASSING LIGHT		FI Y 6s	27 8	4	On post.	
12935	- Lighted Buoy 16		FI R 4s		4	Red.	Replaced by nun from Dec. 7 to May 1.
<b>Lower River</b>							
12940	ROUND ISLAND LIGHT	46 06 36 N 84 01 12 W	FI W 2.5s (R sector)	28 9	7	NG on post.	Red from 145° to 186°. Obscured from 358° to 145°.
12945	Round Island Lighted Buoy 17	46 06 30 N 84 01 01 W	FI G 4s		3	Green.	Replaced by can from Dec. 7 to May 1.
12950	Round Island Buoy 18					Red nun.	
12955	Hay Point Reef Lighted Buoy 18A		FI R 4s		4	Red.	Replaced by nun from Dec. 7 to May 1.
<b>Point Aux Frenes</b>							
12960	- Lighted Buoy 19		Q G		4	Green.	Replaced by LIB from Dec. 7 to May 1.
12965	- Lighted Buoy 20	46 07 58 N 84 00 47 W	FI R 2.5s		3	Red.	Replaced by nun from Dec. 7 to May 1.
12975	- LIGHT 21	46 08 12 N 84 01 12 W	Q G	34 10	9	SG on post on concrete structure.	
12980	- Lighted Buoy 22	46 08 19 N 84 01 00 W	FI R 4s		3	Red.	Replaced by nun from Dec. 7 to May 1.
12985	- Lighted Buoy 23		FI G 4s		4	Green.	Replaced by can from Dec. 7 to May 1.
12990	- Lighted Buoy 24		FI R 4s		4	Red.	Replaced by nun from Dec. 7 to May 1.
<b>Munuscong Lake</b>							
12995	HAY POINT RANGE FRONT LIGHT (C)	46 07 42 N 84 00 00 W	F W	38 12		White daymark with orange stripe on square tower. 29	Seasonal.
13000	HAY POINT RANGE REAR LIGHT 1,100 feet, 128° from front light. (C)		F W	60 18		White daymark with orange stripe on square tower. 51	Seasonal.
13005	- Lighted Buoy 25		FI G 4s		4	Green.	Replaced by can from Dec. 7 to May 1.
13010	- Lighted Buoy 26		FI R 4s		4	Red.	Replaced by nun from Dec. 7 to May 1.
<b>MUNUSCONG LAKE TO SAULT STE. MARIE (Chart 14883)</b>							
<b>Munuscong Channel (Upbound)</b>							
13015	WINTER POINT RANGE FRONT LIGHT	46 13 36 N 84 08 42 W	F W	45 14		KRW on white skeleton tower.	Visible 8° each side of rangeline. Lighted throughout 24 hours.
13020	WINTER POINT RANGE FRONT PASSING LIGHT		FI W 2.5s	43 13			Light operational during winter navigational season only.
13025	WINTER POINT RANGE REAR LIGHT 4,000 feet, 321° from front light.		F W	82 25		KRW on white skeleton tower. 60	Visible 8° each side of rangeline. Lighted throughout 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
13030	- Junction Lighted Bell Buoy		<b>FI (2+1) G 6s</b>		7	Green and red bands.	Replaced by LIB from Dec. 14 to Apr. 28. Range is 4NM when LIB is on station.
13035	- Lighted Buoy 2		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Apr. 28.
13040	- Buoy 3					Green can.	
13045	- Buoy 4					Red nun.	
13050	- Lighted Buoy 5		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
13055	- Lighted Buoy 6		<b>Q R</b>		4	Red.	Replaced by LIB from Dec. 14 to Apr. 21.
13060	- Buoy 7					Green can.	
13065	- Lighted Buoy 8	46 12 33 N 84 07 05 W	<b>Q R</b>		3	Red.	Replaced by LIB from Dec. 14 to Apr. 21.
13070	- Lighted Buoy 9	46 12 44 N 84 07 13 W	<b>FI G 4s</b>		3	Green.	Replaced by LIB from Dec. 7 to Apr. 21.
13075	- Buoy 10					Red nun.	
13080	- Lighted Buoy 11		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
13085	- Lighted Buoy 12		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
13090	- Lighted Buoy 13	46 13 49 N 84 06 45 W	<b>FI G 4s</b>		3	Green.	Replaced by can from Dec. 1 to Apr. 21.
13095	- Buoy 15					Green can.	
<b>Sailors Encampment Channel</b>							
13100	- UPBOUND RANGE FRONT LIGHT (C)	46 15 42 N 84 05 54 W	<b>F W</b>	76 23		White daymark with orange stripe on square tower. 49	Seasonal.
13105	- UPBOUND RANGE REAR LIGHT 2,183 feet, 017° from front light. (C)		<b>F W</b>	104 32		White daymark with orange stripe on square tower. 58	Seasonal.
13110	Everens Point Lighted Buoy Q16 (C)		<b>FI R 4s</b>			Red.	Spar; winter marker. Seasonal.
13115	- Lighted Buoy 17		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
13120	JOHNSONS POINT LIGHT 19	46 15 18 N 84 06 06 W	<b>FI G 2.5s</b>	29 9	8	SG on pile.	Higher intensity beam up and down stream.
13125	- Lighted Buoy 21		<b>Q G</b>		4	Green.	Replaced by LIB from Dec. 1 to Apr. 21.
13130	- Lighted Buoy Q22 (C)		<b>FI R 4s</b>			Red.	Spar; winter marker. Seasonal.
13135	RAINS WHARF RANGE FRONT LIGHT (C)	46 15 18 N 84 05 42 W	<b>F W</b>	32 10		White daymark with orange stripe on circular tower. 26	Visible on range line only. Passing light F W, visible all around. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
13140	RAINS WHARF RANGE REAR LIGHT 880 feet, 134.9° from front light. (C)		<b>F W</b>	53 16		White daymark with orange stripe on skeleton tower. 47	Seasonal.
13145	POINT OF WOODS RANGE FRONT LIGHT	46 16 18 N 84 07 12 W	<b>F W</b>	31 9		KRW on triangular skeleton tower. 36	Lighted throughout 24 hours.
13155	POINT OF WOODS RANGE REAR LIGHT 606 feet, 314° from front light.		<b>F W</b>	41 12		KRW on square skeleton tower.	Lighted throughout 24 hours.
13160	- Buoy 23					Green can.	
13165	- Lighted Buoy 25	46 16 01 N 84 06 56 W	<b>FI G 4s</b>		3	Green.	Replaced by can from Dec. 1 to Apr. 21.
<b>Munuscong Channel</b>							
13170	DARK HOLE EAST RANGE FRONT LIGHT	46 15 54 N 84 06 54 W	<b>F G</b>		5	KRG on square skeleton tower.	Range marks eastern half of channel. F G light operated from Nov. 15 to Apr. 15.
13175	DARK HOLE EAST RANGE REAR LIGHT 500 feet, 176.5° from front daybeacon.				7	KRG on skelton tower, upper part enclosed.	F G light operated from Nov. 15 to Apr. 15.
13180	DARK HOLE WEST RANGE FRONT LIGHT	46 15 54 N 84 07 00 W	<b>Q W</b>	28 9		KRW on square skeleton tower.	Range marks western half of channel. Lighted throughout 24 hours.
13185	DARK HOLE WEST RANGE REAR LIGHT 425 feet, 177.5° from front light.		<b>F W</b>	72 22		KRW on square skeleton tower.	Range marks western half of channel. Lighted throughout 24 hours.
13190	HARWOOD POINT EAST RANGE FRONT LIGHT		<b>F R</b>		5	KRG on cylindrical tower.	For upbound traffic. Range marks eastern half of channel. F R light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13195	HARWOOD POINT EAST RANGE REAR LIGHT 1,002 feet, 357° from front light.		<b>F R</b>		6	KRG on cylindrical tower.	F R light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13200	HARWOOD POINT WEST RANGE FRONT LIGHT	46 19 18 N 84 07 18 W	<b>F W</b>	30 9		KRW on white cylindrical tower.	Range marks western half of channel. Visible on range line only. Lighted throughout 24 hours.
13205	HARWOOD POINT WEST RANGE REAR LIGHT 1,002 feet, 357° from front light.		<b>F W</b>	48 15		KRW on white cylindrical tower.	Lighted throughout 24 hours.
13210	- Lighted Buoy 27		<b>Q G</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
13215	Coyle Point Lighted Buoy Q28 (C)		<b>Q R</b>			Red.	Spar; winter marker.
13217	- Lighted Buoy 29		<b>FI G 2.5s</b>		4	Green.	Replaced by LIB from Dec. 7 to Apr. 21.
13220	- Buoy 31					Green can.	
13225	Coyle Point North Lighted Buoy Q30 (C)	46 16 52 N 84 06 58 W	<b>FI R 4s</b>			Red.	Spar; winter marker. Seasonal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
13235	- Lighted Buoy 33		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
13240	Green Point Lighted Buoy Q34 (C)		<b>FI R</b> 4s			Red.	Spar; winter marker. Seasonal.
13245	- Lighted Buoy 35		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 21.
13250	Lighted Buoy Q36 (C)		<b>FI R</b> 4s			Red.	
13255	- LIGHT 39	46 18 36 N 84 07 12 W	<b>Q G</b>	30 9	5	SG on post on concrete cone.	
13256	Hen Island Daybeacon H	46 18 33 N 84 07 53 W		16 5		NB on skeleton tower.	
<b>Middle Neebish Channel</b>							
13260	STRIBLING POINT UPBOUND RANGE FRONT LIGHT (C)	46 18 48 N 84 06 54 W	<b>F W</b>	64 20		White daymark with orange stripe on skeleton tower. 43	Seasonal.
13265	STRIBLING POINT UPBOUND RANGE REAR LIGHT 3,154 feet, 111.9° from front light. (C)		<b>F W</b>	100 30		White daymark with orange stripe on square skeleton tower. 43	
13275	MIDDLE NEEBISH SOUTH RANGE FRONT LIGHT	46 19 54 N 84 11 06 W	<b>Q W</b>	16 5		KRW on red steel structure.	
13280	MIDDLE NEEBISH SOUTH RANGE REAR LIGHT 5,700 feet, 292° from front light.		<b>F W</b>	50 15		KRW on square skeleton tower.	
13285	- Lighted Buoy 43		<b>Q G</b>		4	Green.	Replaced by LIB from Dec. 14 to Apr. 21.
13290	Hardwood Point Junction Buoy HP	46 19 19 N 84 08 29 W				Red nun with green band.	
13295	- Buoy 45					Green can.	
13300	- Buoy 46					Red nun.	
13310	- Lighted Buoy 49		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 21.
13315	- LIGHT 50		<b>FI R</b> 4s	26 8	4	TR on post.	
13320	- Buoy 51					Green can.	
13325	- LIGHT 54	46 19 36 N 84 09 36 W	<b>FI R</b> 4s	26 8	4	TR on post.	
13330	- Buoy 55					Green can.	
13335	- Buoy 57					Green can.	
13340	- LIGHT 58		<b>FI R</b> 4s	20 6	4	TR on post.	
13345	- Lighted Buoy 59		<b>FI G</b> 2.5s		4	Green.	Replaced by LIB from Dec. 7 to Apr. 21.
13350	- Buoy 60					Red nun.	
13353	- LIGHT 61	46 19 57 N 84 11 03 W	<b>Q G</b>	26 8	4	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
<b>Lake Nicolet</b>							
13355	LOWER NICOLET EAST RANGE FRONT LIGHT	46 19 30 N 84 10 30 W	<b>F G</b>	42 13	7	KRG on skeleton tower.	F G light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13360	LOWER NICOLET EAST RANGE REAR LIGHT 1,760 feet, 150.3° from front light.		<b>F G</b>	60 18	7	KRG on skeleton tower.	F G light operated from Nov. 15 to Apr. 15. Lighted throughout 24 hours.
13365	LOWER NICOLET WEST RANGE FRONT LIGHT	46 19 30 N 84 10 36 W	<b>F W</b>	53 16		KRW on skeleton tower.	Lighted throughout 24 hours.
13370	LOWER NICOLET WEST RANGE REAR LIGHT 3,750 feet, 150° from front light.		<b>F W</b>	100 30		KRW on skeleton tower.	
13375	MIDDLE NEEBISH LIGHT 62	46 20 06 N 84 11 00 W	<b>Q R</b>	34 10	5	TR on post.	
13380	- Lighted Buoy 63		<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
13385	- Lighted Buoy 64		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
13390	- Lighted Buoy 65		<b>FI G</b> 4s		4	Green.	Replaced by LIB from Dec. 7 to Apr. 21.
13395	- Lighted Buoy 66		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 21.
13400	- Lighted Buoy 67		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
13405	- Lighted Buoy 68	46 21 40 N 84 12 18 W	<b>FI R</b> 4s		3	Red.	Replaced by nun from Nov. 28 to Apr. 21.
13410	- Lighted Buoy 69		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 21.
13425	- Lighted Buoy 72	46 22 17 N 84 12 48 W	<b>FI R</b> 4s		3	Red.	Replaced by nun from Nov. 28 to Apr. 14.
13430	- Lighted Buoy 73		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 14.
13445	- Lighted Buoy 76		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 28 to Apr. 14.
13450	- Lighted Buoy 77		<b>FI G</b> 4s		4	Green.	Replaced by LIB from Dec. 14 to Apr. 14.
13455	- Buoy 78					Red nun.	
13460	- Lighted Buoy 79	46 23 30 N 84 14 09 W	<b>FI G</b> 4s		3	Green.	Replaced by can from Nov. 21 to Apr. 14.
13465	- LIGHT 80	42 23 36 N 84 13 48 W	<b>FI R</b> 2.5s	27 8	4	TR on post.	
<b>West Neebish Channel (Downbound)</b>							
13470	- UPPER RANGE FRONT LIGHT	46 20 18 N 84 12 18 W	<b>Q W</b>	38 12		KRW on skeleton tower.	Visible 3° each side of range line.
13475	- UPPER RANGE REAR LIGHT 6,300 feet, 160° from front light.		<b>F W</b>	80 24		KRW on red and white square skeleton tower.	
13480	- LIGHT 54	46 22 48 N 84 13 36 W	<b>FI R</b> 4s	34 10	6	TR on post.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
13485	- Lighted Buoy 53		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
13490	- Buoy 52					Red nun.	
13495	- Buoy 51					Green can.	
13500	- Lighted Buoy 50		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 14.
13505	- LIGHT 49		<b>Q G</b>	32 10	5	SG on column on concrete cone.	
13510	- Lighted Buoy 48	46 21 12 N 84 12 42 W	<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
13515	- OAK RIDGE RANGE FRONT LIGHT	46 17 06 N 84 12 54 W	<b>F G</b>	70 21		KRW on skeleton tower.	Lighted throughout 24 hours.
13520	- OAK RIDGE RANGE REAR LIGHT 1,950 feet, 181° from front light.		<b>F G</b>	140 43		KRW on square skeleton tower.	Lighted throughout 24 hours.
13525	- Lighted Buoy 46		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
13530	- LIGHT 45		<b>FI G</b> 2.5s	32 10	5	SG on black tripod tower.	
13535	- Buoy 44					Red nun.	
13540	- Buoy 43					Green can.	
13545	- Lighted Buoy 42		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
13550	- Lighted Buoy 41		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 21 to Apr. 21.
13555	- Lighted Buoy 40		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
13560	- Lighted Buoy 39		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 21 to Apr. 21.
13565	- Lighted Buoy 38	46 18 06 N 84 12 52 W	<b>FI R</b> 4s		3	Red.	Replaced by nun from Dec. 1 to Apr. 21.
13570	- Lighted Buoy 37	46 18 07 N 84 12 57 W	<b>FI G</b> 4s		3	Green.	Replaced by can from Dec. 1 to Apr. 21.
13575	- Lighted Buoy 36		<b>FI R</b> 2.5s		4	Red.	Replaced by LIB from Dec. 14 to Apr. 21.
13580	- Buoy 35					Green can.	
13585	- Buoy 34					Red nun.	
13590	- LIGHT 33		<b>Q G</b>	32 10	4	SG on black column adjoining small house.	
13595	- LIGHT 32		<b>Q R</b>	31 9	4	TR on post.	
13600	<b>Rock Cut Lower Leading Light</b>	46 15 06 N 84 10 36 W	<b>F W</b>	29 9	15	KRW on square skeleton tower.	Lighted throughout 24 hours.
13605	- LIGHT 30		<b>F R</b>	31 9	5	TR on post.	
13610	- LIGHT 29	46 16 54 N 84 12 30 W	<b>Q G</b>	31 9	5	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
13615	- LIGHT 28		<b>Iso R</b> 6s	32 10	4	TR on triangular skeleton tower.	
13620	- LIGHT 27		<b>Iso G</b> 6s	32 10	4	SG on triangular skeleton tower.	
13625	- LIGHT 26		<b>F R</b>	34 10	4	TR on triangular skeleton tower.	
13630	- LIGHT 25		<b>F G</b>	34 10	4	SG on triangular skeleton tower.	
13635	- Lighted Buoy 24		<b>Q R</b>		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
13640	Sawmill Point Lighted Buoy 23	46 15 03 N 84 10 53 W	<b>Q G</b>		3	Green.	Replaced by LIB from Dec. 14 to Apr. 21.
13645	Sawmill Point Lighted Buoy 22		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
13650	MOON ISLAND LEADING LIGHT		<b>F W</b>	40 12	6	Cylindrical tower with black band.	
13655	- Buoy 20					Red nun.	
13660	- Buoy 19					Green can.	
13665	- Lighted Buoy 18		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 28 to Apr. 21.
13670	WEST NEEBISH CHANNEL (DOWNBOUND) LIGHT 17	46 14 20 N 84 10 39 W	<b>FI G</b> 4s	32 10	9	SG on post.	Higher intensity beam on bearing 171°.
13675	Kemps Point Lighted Buoy 15A	46 13 50 N 84 10 30 W	<b>FI G</b> 4s		3	Green.	Replaced by can from Dec. 14 to Apr. 21.
13680	- LIGHT 16		<b>Q R</b>	32 10	4	TR on post on concrete base.	
13685	- Lighted Buoy 15		<b>Q G</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
13690	- LIGHT 14		<b>Q R</b>	24 7	4	TR on post.	
13695	Moon Island Lighted Buoy 13		<b>FI G</b> 2.5s		4	Green.	LIB; winter marker. Maintained from Apr. 21 to Dec. 14.
13700	- Lighted Buoy 12	46 12 55 N 84 09 30 W	<b>FI R</b> 4s		3	Red.	Replaced by nun from Nov. 28 to Apr. 21.
13705	- Lighted Buoy 11		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 21.
13710	- Lighted Buoy 10		<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Nov. 28 to Apr. 28.
13715	- LIGHT 9	46 12 36 N 84 09 00 W	<b>FI G</b> 2.5s	42 13	5	SG on white cylindrical tower with green stripe in middle.	
13720	- Buoy 8					Red nun.	
13725	- Buoy 7					Green can.	
13730	- Lighted Buoy 6		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 28 to Apr. 28.
13735	- Lighted Buoy 5		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 28.
13740	- Buoy 4					Red nun.	
13745	- Buoy 3					Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
13750	- Lighted Buoy 2		<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Nov. 28 to Apr. 28.
13755	- Lighted Buoy 1		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 28 to Apr. 28.
<b>Lake George</b>							
<b>East Neebish Island Channel</b>							
13760	- Buoy 1					Green can.	
13765	- Buoy 2					Red nun.	
<i>Buoys maintained from May 7 to Oct. 28.</i>							
13770	- Lighted Buoy 3	46 19 21 N 84 06 33 W	<b>FI G</b> 4s		3	Green.	
13775	- Buoy 5					Green can.	
13780	- Buoy 7					Green can.	
13785	- Buoy 8					Red nun.	
13790	- Lighted Buoy 9		<b>Q G</b>		4	Green.	
13795	- Buoy 11					Green can.	
13800	- Lighted Buoy 12	46 20 50 N 84 07 38 W	<b>FI R</b> 4s		3	Red.	
13805	- Lighted Buoy 13		<b>FI G</b> 4s		4	Green.	
13810	- Buoy 14					Red nun.	
13815	Birch Point Lighted Buoy QV18 (C)	46 22 18 N 84 08 12 W	<b>FI R</b> 4s			Red spar.	Seasonal.
<b>Lake George Channel</b>							
<i>Buoys maintained from May 7 to Oct. 28. Due to frequently changing conditions, positions of buoys are not listed.</i>							
13820	- Buoy 1					Green can.	
13825	Pumpkin Point Lighted Buoy QX2 (C)	46 23 30 N 84 08 30 W	<b>FI R</b> 4s			Red spar.	Seasonal.
13830	- Buoy 3					Green can.	
13835	- Buoy 3A					Green can.	
13840	- Buoy 4A					Red nun.	
13845	- Buoy 5					Green can.	
13850	- Lighted Buoy 6		<b>FI R</b> 2.5s		4	Red.	
13855	- Buoy 7					Green can.	
13860	- Buoy 8					Red nun.	
13865	- Lighted Buoy 9		<b>FI G</b> 2.5s		4	Green.	
13870	- Buoy 10					Red nun.	
13875	- Buoy 11					Green can.	
13880	- Buoy 12					Red nun.	
13885	- Buoy 13					Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
13890	- Buoy 14					Red nun.	
13895	- Lighted Buoy 15	46 26 06 N 84 09 29 W	FI G 4s		3	Green.	
13900	- Buoy 16					Red nun.	Maintained year round.
<b>Sugar Island North Channel</b>							
<i>Buoys maintained from May 7 to Oct. 28.</i>							
13905	- Lighted Buoy 1	46 30 13 N 84 06 43 W	FI G 4s		3	Green.	Replaced by can from Oct. 28 to May 7.
13910	- Buoy 5					Green can.	
13912	- Buoy 6					Red nun.	
13915	- Lighted Buoy 6A		Q R		4	Red.	
13920	- Buoy 7					Green can.	
13925	- Buoy 8					Red nun.	
13930	- Buoy 9					Green can.	
13935	- Buoy 13					Green can.	
13940	- Buoy 15					Green can.	
13945	- Buoy 30					Red nun.	
13950	- Buoy 31					Green can.	
<b>Lake Nicolet</b>							
13955	UPPER NICOLET RANGE FRONT LIGHT	46 27 18 N 84 15 54 W	F W	40 12		KRW on square skeleton tower.	For upbound traffic. Visible on range line only.
13960	UPPER NICOLET RANGE REAR LIGHT 3,105 feet, 339.5° from front light.		F W	82 25		KRW on skeleton tower.	
13965	- Lighted Buoy 82	46 24 16 N 84 14 11 W	FI R 4s		3	Red.	Replaced by nun from Nov. 21 to Apr. 14.
13970	- Lighted Buoy 83		FI G 4s		4	Green.	Replaced by can from Nov. 21 to Apr. 14.
13975	- Buoy 84					Red nun.	
13980	- Buoy 85					Green can.	
13985	- Anchorage Buoy A					Yellow can.	
13990	- Anchorage Buoy B					Yellow can.	
13995	- Buoy 86					Red nun.	
14000	- Lighted Buoy 86A		FI R 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 14.
14005	<i>Six Mile Point Lighted Buoy 87</i>		FI G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
14010	FRECHETTE POINT LIGHT 91		FI G 2.5s	30 9		SG on same structure as Frechette Point Range Front Light.	
14015	FRECHETTE POINT RANGE FRONT LIGHT	46 27 18 N 84 16 42 W	Q G	30 9		KRW on square skeleton tower.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
14020	FRECHETTE POINT RANGE REAR LIGHT 4,483 feet, 323.3° from front light.		<b>F G</b>	90 27		KRW on triangular skeleton tower.	Visible on range line only.
14025	- LIGHT 88	46 26 48 N 84 16 06 W	<b>FI R</b> 2.5s	34 10	6	TR on post on concrete foundation.	
14030	- <i>Lighted Buoy 89</i>		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
14035	- Buoy 90					Red nun.	
14040	<b>Sugar Island Leading Light</b>	46 24 42 N 84 14 00 W	<b>Iso W</b> 6s	50 15	15	KRW on square skeleton tower.	Lighted throughout 24 hours.
<b>Little Rapids Cut</b>							
14045	SIX MILE POINT RANGE FRONT LIGHT	46 26 24 N 84 16 00 W	<b>F W</b>	26 8		KRW on white cylindrical tower.	Lighted throughout 24 hours.
14050	SIX MILE POINT RANGE REAR LIGHT 2,824 feet, 153° from front light.		<b>Iso W</b> 6s	65 20		KRW on steel skeleton tower.	
14055	- <i>Lighted Buoy 92</i>		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 14.
14060	- <i>Junction Lighted Buoy</i>	46 27 36 N 84 17 00 W	<b>FI (2+1) G</b> 6s		4	Green and red bands.	Replaced by can from Nov. 21 to Apr. 14.
<b>Little Rapids Channel</b>							
<i>Buoys maintained from May 14 to Nov. 14.</i>							
14065	- Buoy 2					Red nun.	
14070	- Buoy 4					Red nun.	
14075	- Buoy 5					Green can.	
14080	- Buoy 6	46 27 47 N 84 17 19 W				Red nun.	
14085	- Buoy 8					Red nun.	
<b>Little Rapids Cut</b>							
14090	- LIGHT 95		<b>FI G</b> 2.5s	18 5	4	SG on column on concrete pier.	
14095	- LIGHT 96		<b>FI R</b> 2.5s	20 6	4	TR on column on concrete pier.	
14100	- LIGHT 98		<b>Q R</b>	25 8	6	TR on triangular tower.	
14105	- <i>Lighted Ice Buoy 98B</i>		<b>Q R</b>		3	Red ice buoy.	Marks upstream end of ice boom on Eastern side of river. On station only during deployment of ice boom.
14110	- LIGHT 99		<b>F G</b>	32 10	9	SG on skeleton tower. 30	Visible 120° to 335°.
14115	MISSION POINT OBSTRUCTION LIGHT D	46 29 18 N 84 17 54 W	<b>FI W</b> 6s	20 6	5	On post.	
14120	MISSION POINT OBSTRUCTION LIGHT A		<b>FI W</b> 4s	20 6	5	On post.	
14125	MISSION POINT OBSTRUCTION LIGHT E		<b>FI W</b> 4s	20 6	5	On post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
14130	- Lighted Buoy 101	46 29 24 N 84 18 18 W	FI G 4s		4	Green.	Maintained from Apr. 14 to Dec. 7.
14135	- Junction Lighted Buoy LR		FI (2+1) R 6s		4	Red with green band.	Replaced by nun from Dec. 7 to Apr. 14.
14140	MISSION POINT OBSTRUCTION LIGHT B		FI W 6s	20 6	5	On post.	
14145	MISSION POINT OBSTRUCTION LIGHT C		FI W 4s	20 6	5	On post.	
14150	- Lighted Buoy 104		Q R		4	Red.	Replaced by nun from Dec. 7 to Apr. 14.
14155	- Lighted Buoy 105		Q G		4	Green.	Replaced by can from Dec. 14 to Apr. 14.
<b>HEAD OF LAKE NICOLET TO WHITEFISH BAY (Chart 14884)</b>							
<b>Bayfield Channel</b>							
14160	BAYFIELD ROCK RANGE FRONT LIGHT	46 29 18 N 84 17 00 W	F W	34 10		KRW on skeleton tower. 20	Lighted throughout 24 hours.
14165	BAYFIELD ROCK RANGE REAR LIGHT 896 feet, 109° from front light.		F W	54 16		KRW on skeleton tower. 40	
14170	- Lighted Buoy 107		FI G 4s		4	Green.	Replaced by can from Nov. 21 to Apr. 14.
14175	- Lighted Buoy 108	46 30 03 N 84 19 38 W	FI R 2.5s		3	Red.	Replaced by nun from Nov. 21 to Apr. 14.
14180	- Buoy 109					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		FI R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 14.
14191	GEORGE KEMP MARINA EAST LIGHT	46 30 01 N 84 20 11 W	FI G 4s	12 4		Metal tower.	Maintained from May 1 to Oct. 31. Private aid.
14192	GEORGE KEMP MARINA WEST LIGHT	46 30 02 N 84 20 14 W	FI R 4s	12 4		Piling with metal tower.	Maintained from May 1 to Oct. 31. Private aid.
<b>American Canal</b>							
14195	- SOUTHEAST PIERHEAD LIGHT		F R	9 3		Pipe.	Maintained by Corps of Engineers, U.S. Army.
14200	- EAST CENTER PIERHEAD LIGHT Marks direction of pier.		F R	20 6		Concrete column.	Maintained by Corps of Engineers, U.S. Army.
14205	- NORTHEAST PIERHEAD LIGHT		F R	21 6		Concrete column.	Maintained by Corps of Engineers, U.S. Army.
14210	- WEST CENTER PIERHEAD LIGHT		F R	20 6		Concrete column.	Maintained by Corps of Engineers, U.S. Army.
14215	- SOUTHWEST PIER LIGHT		Q W	6 2		Concrete column.	Maintained by Corps of Engineers, U.S. Army.
14220	- SOUTHWEST PIERHEAD LIGHT		F R	20 6		Concrete column.	Maintained by Corps of Engineers, U.S. Army.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
14225	- NORTHWEST PIERHEAD LIGHT		<b>F R</b>	20 <b>6</b>		Concrete column.	Maintained by U.S. Army Corps of Engineers. SIREN: Answers signals.
<b>Vidal Shoals Channel</b>							
14230	- RANGE FRONT LIGHT	46 30 12 N 84 22 00 W	<b>Q R</b>	25 <b>8</b>		KRW on skeleton tower.	
14235	- RANGE REAR LIGHT 870 feet, 076° from front light.		<b>Iso R 6s</b>	65 <b>20</b>		KRW on square skeleton tower.	
14245	<i>Vidal Shoals Channel Lighted Buoy 2</i>	46 30 11 N 84 23 05 W	<b>FI R 4s</b>		3	Red.	Replaced by nun from Nov. 21 to May 1.
14250	- <i>Lighted Buoy 3</i>	46 29 57 N 84 23 07 W	<b>FI G 4s</b>		3	Green.	Replaced by can from Nov. 21 to May 1.
14255	- <i>Lighted Buoy 5</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 21 to May 1.
14265	<i>Big Point Lighted Buoy 7</i>		<b>Q G</b>		4	Green.	Replaced by LIB from Nov. 21 to May 1.
14290	CANADIAN CANAL UPPER ENTRANCE RANGE FRONT LIGHT (C)	46 30 54 N 84 22 18 W	<b>F R</b>	40 <b>12</b>		Red square daymark with white vertical stripe on skeleton tower. 30	Lighted throughout 24 hours. Seasonal.
14295	CANADIAN CANAL UPPER ENTRANCE RANGE REAR LIGHT 811 feet, 051° from front light. (C)		<b>F R</b>	63 <b>19</b>		Red square daymark with white vertical stripe on skeleton tower. 50	Lighted throughout 24 hours. Seasonal.
14300	- <i>Upper Turning Lighted Buoy QM11 (C)</i>		<b>Q G</b>			Green.	Spar; winter marker. Seasonal.
<b>Vidal Shoals</b>							
14305	- <i>Northeast Lighted Buoy QM13 (C)</i>		<b>FI G 4s</b>			Green.	Spar; winter marker. Seasonal.
14310	- <i>North Lighted Buoy QM14 (C)</i>	46 30 24 N 84 23 12 W	<b>FI R 4s</b>			Red.	Spar; winter marker. Seasonal.
14315	- <i>Southwest lighted Buoy P (C)</i>		<b>IQ W</b>			Yellow with black band.	Spar; winter marker. Cardinal buoyage. Seasonal.
14320	- <i>West Lighted Buoy QM24 (C)</i>		<b>FI R 4s</b>			Red.	Spar; winter marker. Seasonal.
<b>Pointe Aux Pins Channel</b>							
14325	POINTE AUX PINS RANGE FRONT LIGHT (C)	46 28 06 N 84 28 18 W	<b>F G</b>	30 <b>9</b>		KWR on tower. 26	Visible on range line only. Seasonal.
14330	POINTE AUX PINS RANGE REAR LIGHT 922 feet, 233.1° from front light. (C)		<b>F G</b>	62 <b>19</b>		KRW on skeleton tower. 55	Visible on range line only. Seasonal.
14335	- <i>Lighted Buoy 8</i>		<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 21 to May 1.
14337	- <i>Lighted Buoy 9</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 21 to May 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
14340	- Lighted Buoy 10		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to May 1.
14345	Pointe Aux Pins Bay Lighted Buoy P12 (C)		<b>FI R</b> 4s			Red.	Spar; winter marker. Seasonal.
14350	Brush Point Lighted Buoy 13		<b>Q G</b>		4	Green.	Replaced by can from Dec. 21 to May 1.
14355	BRUSH POINT LIGHT A	46 28 18 N 84 27 30 W	<b>Q W</b>		3	NB on post.	
14360	Pointe Aux Pins Bay Lighted Buoy P14 (C)	46 28 24 N 84 27 54 W	<b>FI R</b> 4s			Red.	Spar; winter marker. Seasonal.
14365	Brush Point Lighted Buoy 15		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 21 to May 1.
14370	POINTE AUX PINS MAIN LIGHT (C)	46 27 48 N 84 28 24 W	<b>F R</b>	27 8	7	On circular tower with red and white bands. 20	Seasonal.
14375	Brush Point Lighted Buoy 17		<b>Q G</b>		4	Green.	Replaced by can from Dec. 21 to May 1.
14380	Brush Point Lighted Buoy P19 (C)		<b>FI G</b> 4s			Green.	Spar; winter marker. Seasonal.
14385	Pointe Louise Lighted Buoy P20 (C)		<b>FI R</b> 4s			Red.	Spar; winter marker. Seasonal.
14390	BRUSH POINT RANGE FRONT LIGHT	46 27 42 N 84 27 48 W	<b>F R</b>	31 9		KRW on square skeleton tower.	Lighted throughout 24 hours.
14395	BRUSH POINT RANGE REAR LIGHT 2,000 feet, 074° from front light.		<b>F R</b>	66 20		KRW on square skeleton tower. 57	Lighted throughout 24 hours.
14400	Cedar Point Lighted Buoy 21	46 27 15 N 84 29 43 W	<b>FI G</b> 4s		3	Green.	Replaced by can from Nov. 21 to May 1.
14405	Cedar Point Lighted Buoy P22 (C)		<b>FI R</b> 4s			Red.	Spar; winter marker. Seasonal.
14410	Cedar Point Lighted Buoy 23		<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 21 to May 1.
14415	Cedar Point Lighted Buoy 24	46 27 14 N 84 30 52 W	<b>FI R</b> 4s		3	Red.	Replaced by nun from Nov. 21 to May 1.
<b>Round Island</b>							
14420	- Lighted Buoy 25		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 21 to May 1.
14425	- LIGHT 26	46 27 00 N 84 31 54 W	<b>Q R</b>	34 10	5	TR on white cylindrical tower.	RACON: M (— —).
14430	BIRCH POINT RANGE FRONT LIGHT	46 26 00 N 84 31 24 W	<b>F R</b>	53 16		KRW on skeleton tower. 51	Lighted throughout 24 hours.
14435	BIRCH POINT RANGE REAR LIGHT 3,000 feet, 138.5° from front light.		<b>F R</b>	101 31		KRW on black skeleton tower. 75	Visible on range line only. Lighted throughout 24 hours.
14440	- Buoy 27					Green can.	
14445	- Buoy 29					Green can.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ST. MARYS RIVER</b>							
14450	- Buoy 30					Red nun.	
14455	- <i>Traffic Lighted Buoy</i>		<b>Mo (A) W</b>		7	Red and white stripes.	Vessels are required to leave buoy on port side in passing. Maintained from May 1 to Nov. 21.
14460	- <i>Lighted Buoy 32</i>		<b>FI R 2.5s</b>		4	Red.	Replaced by nun from Dec. 21 to May 1.
<b>Point Iroquois</b>							
14465	- <i>Shoal Lighted Bell Buoy 33</i>		<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 21 to May 1.
14470	- Anchorage Buoy A					Yellow can.	
14473	- <i>Pointe De Chenes Lighted Buoy P34 (C)</i>		<b>FI R 4s</b>			Red.	Seasonal.
14475	- Shoal Buoy 35 Marks east side of shoal.					Green can.	
14483	- <i>Lighted Buoy P38 (C)</i>		<b>FI R 4s</b>			Red.	Spar; winter marker. Seasonal.
14485	- Shoal Buoy 37					Green can.	
14490	- <i>Shoal Lighted Bell Buoy 39</i>		<b>Q G</b>		4	Green.	Replaced by can from Dec. 21 to May 1.
14495	<b>Gros Cap Reefs Light (C)</b>	46 30 42 N 84 36 54 W	<b>FI R 5s</b>	59 <b>18</b>	14	On white square block.	RACON: K (-•-). Seasonal. Emergency light.

# Section 11

## Lake Superior

### St. Mary's River to Duluth - Superior Harbor

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
<b>ST. MARYS RIVER TO AU SABLE POINT (Chart 14962)</b>							
14510	<b>Ile Parisienne Light (C)</b>	46 38 42 N 84 43 24 W	<b>FI W</b> 10s 1s fl 9s ec.	53 16	16	White hexagonal tower.	Operational at night only. Seasonal. Emergency light.
14515	WHITEFISH HARBOR LIGHT 2		<b>FI R</b> 4s	29 9	5	TR on pile.	
14520	WHITEFISH HARBOR LIGHT 3		<b>FI G</b> 4s	29 9	4	SG on pile.	
14525	WHITEFISH HARBOR LIGHT 4		<b>FI R</b> 4s	25 8	4	TR on white column.	
14530	<b>Whitefish Point Light</b>	46 46 18 N 84 57 24 W	<b>FI (2) W</b> 20s 0.2s fl 4.8s ec. 0.2s fl 14.8s ec.	80 24	26	White cylindrical tower. 76	RACON: O (---). Standby light of reduced intensity.
14545	LITTLE LAKE HARBOR LIGHT 3	46 43 00 N 85 21 54 W	<b>FI G</b> 4s	28 9	4	SG on post.	
14550	<b>Grand Marais Harbor of Refuge Outer Light</b>	46 41 00 N 85 58 18 W	<b>FI W</b> 2.5s	40 12	13	Skeleton tower with upper part enclosed.	HORN: 1 blast ev 15s (2s bl). Operates from May 1 to Oct. 20.
14555	GRAND MARAIS HARBOR OF REFUGE LIGHT 1	46 40 48 N 85 58 12 W	<b>FI G</b> 4s	24 7	4	SG on post.	
14560	<b>Grand Marais Harbor of Refuge Inner Light</b>		<b>F W</b>	54 16	16	White square pyramidal skeleton tower with upper part enclosed. 47	
<b>GRAND MARAIS TO BIG BAY POINT (Chart 14963)</b>							
14565	<b>Au Sable Light</b>	46 40 18 N 86 08 24 W	<b>FI W</b> 6s	100 30	11	White conical tower with red dwelling attached. 87	
14570	GRAND ISLAND LIGHT	46 33 42 N 86 40 54 W	<b>FI W</b> 6s	190 58	9	On white post. 25	
14575	MUNISING RANGE FRONT LIGHT	46 24 54 N 86 39 42 W	<b>F R</b>	79 24		White conical tower. 58	Lighted throughout 24 hours.
14580	MUNISING RANGE REAR LIGHT 1,150 feet, 217° from front light.		<b>F R</b>	107 33		White conical tower. 33	Lighted throughout 24 hours.
14582	Munising City Pier Light	46 24 50 N 86 39 07 W	<b>FI R</b> 3s		14	On white post.	Private aid.
14585	<i>Trout Point Lighted Bell Buoy 2</i>	46 29 06 N 86 35 48 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Oct. 14 to May 7.
14590	<i>Sand Point Lighted Bell Buoy 3</i>		<b>FI G</b> 4s		5	Green.	Replaced by can from Oct. 14 to May 7.
14595	Grand Island Harbor Buoy 4					Red nun.	
14600	<b>Bay Furnace Light</b>	46 26 18 N 86 41 30 W	<b>FI W</b> 2.5s	20 6	11	White cylindrical tower.	Higher intensity beam on bearing 166°.
14603	Bay Furnace Buoy 2	46 26 33 N 86 41 19 W				Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
14610	Williams Landing Buoy 1					Green can.	
14615	Grand Island Shoal Buoy 1A					Green can.	
<b>MARQUETTE AND PRESQUE ISLE HARBORS (Chart 14970)</b>							
14620	Marquette Bay South Shoal Buoy 1A					Green can.	
14625	Marquette Rocks Buoy 1 Marks northeast side of shoal.	46 32 55 N 87 22 09 W				Green can.	
14630	<b>Marquette Light</b>	46 32 48 N 87 22 36 W	<b>FI W</b> 10s	77 23		Red square tower on dwelling. 40	
14635	<b>Marquette Breakwater Outer Light</b>		<b>FI W</b> 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 from May 1 to Oct. 20. Operates by keying the mike 5 times on VHF-FM Ch. 79.
14640	MARQUETTE BREAKWATER INNER LIGHT		<b>FI R</b> 6s	38 12	5	TR on post.	
14645	Marquette Harbor Buoy 1 Marks shoal.					Green can.	
14650	Marquette Power and Light Channel Buoy 1	46 32 00 N 87 23 06 W				Green can.	Private aid.
14655	Marquette Power and Light Channel Buoy 2					Red nun-shaped spar.	Private aid.
14656	Marquette Power and Light Range Front Daybeacon	46 31 54 N 87 23 36 W		10 3		Orange and white diamond.	Private aid.
14657	Marquette Power and Light Range Rear Daybeacon 100 feet, 250° from front range beacon.			30 9		Orange and white diamond.	Private aid.
14660	Marquette Harbor Buoy 3 Marks shoal.					Green can.	
14665	Marquette Harbor Buoy 5					Green can.	
14666	Marquett Harbor Buoy 7	46 32 31 N 87 23 08 W				Green can.	
14667	MARQUETTE MARINA ENTRANCE LIGHT 1	46 32 35 N 87 23 03 W	<b>FI G</b> 2.5s			SG on blue pole.	Maintained from Mar. 1 to Nov. 30. Private aid.
14668	MARQUETTE MARINA ENTRANCE LIGHT 2	46 32 33 N 87 23 02 W	<b>FI R</b> 2.5s			TR on blue pole.	Maintained from Mar. 1 to Nov. 30. Private aid.
14670	<b>Presque Isle Harbor Breakwater Light</b>	46 34 30 N 87 22 30 W	<b>FI R</b> 4s	56 17	10	White cylindrical tower with red band on octagonal building. 40	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from May 1 to Oct. 20.
14680	<i>Presque Isle Harbor Lighted Buoy 1</i> Marks north side of shoal.	46 34 08 N 87 23 04 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Oct. 14 to May 7.
14685	<i>Wisconsin Electric Power Company Lighted Buoy 3</i>	46 34 36 N 87 23 18 W	<b>Q G</b>			Green.	Maintained from Apr. 1 to Dec. 1. Private aid.
14688	PRESQUE ISLE MARINA LIGHT 1		<b>F G</b>			SG on building.	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
<b>LAKE SUPERIOR</b>							
14690	PRESQUE ISLE MARINA LIGHT 2	46 34 54 N 87 23 06 W	FI 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.					Red nun.	
<b>GRAND MARAIS TO BIG BAY POINT (Chart 14963)</b>							
14700	<b>Granite Island Light</b>	46 43 18 N 87 24 42 W	FI W 6s	96 29	10	Gray skeleton tower.	
14705	<b>Big Bay Point Light</b>	46 50 30 N 87 40 48 W	FI W 6s	89 27	11	Red square tower on dwelling. 60	
14710	Big Bay Point Buoy 1 Marks north side of shoal.	46 51 42 N 87 41 15 W				Green can.	Maintained from May 14 to Oct. 14.
14715	BIG BAY HARBOR WEST PIER LIGHT		FI R 4s	25 8	5	TR on column.	
14720	Big Bay Harbor East Pier Daybeacon					SG on column.	
14725	<b>Stannard Rock Light</b> Marks north side of reef.	47 11 00 N 87 13 30 W	FI W 6s	102 31	10	Gray conical tower on cylindrical crib.	
<b>BIG BAY POINT TO REDRIDGE (Chart 14964)</b>							
14730	<b>Huron Island Light</b>	46 57 48 N 87 59 54 W	FI W 10s	197 60	15	Gray granite tower on dwelling. 39	
14735	Point Abbaye Shoal Buoy 6					Red nun.	
14740	Point Abbaye Shoal Bell Buoy 3					Green.	Maintained from May 14 to Oct. 14.
14745	HURON BAY LIGHT		FI W 4s	34 10	6	NG on skeleton tower.	
14750	SAND POINT LIGHT	46 47 06 N 88 28 00 W	FI W 4s	40 12	6	NR on skeleton tower.	
14755	L'Anse Bay Shoal Buoy 2					Red nun.	Maintained from May 14 to Oct. 14.
14760	L'Anse Buoy 1					Green can.	Maintained from May 14 to Oct. 14.
14762	L'ANSE MARINA LIGHT 2	46 45 30 N 88 27 24 W	FI R 4s	8 2		TR on pile.	Maintained from May 1 to Nov. 1. Private aid.
14763	INDIAN COUNTRY SPORTS LIGHT	46 45 30 N 88 27 24 W	FI W 2.5s	44 13		Cupola atop white square tower.	Private aid.
<b>KEWEENAW WATERWAY (Chart 14972)</b>							
<b>Keweenaw Waterway</b>							
<i>Lighted buoys maintained from May 14 to Nov. 14.</i>							
14765	<b>- Lower Entrance Light</b>	46 58 08 N 88 25 52 W	FI W 6s	68 21	9	White octagonal tower on concrete pierhead.	Standby light of reduced intensity. HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20. Operates by keying the mike 5 times on VHF-FM CH. 79
14775	<i>- Lighted Buoy 1</i>	46 58 05 N 88 26 00 W	FI G 4s		4	Green.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
14780	- Lighted Buoy 3	46 58 25 N 88 26 01 W	<b>FI G</b> 4s		4	Green.	
14780.1	Keweenaw Waterway Buoy 3A	46 58 47 N 88 26 06 W				Green can.	Maintained from May 14 to Oct. 14.
14785	- Lighted Buoy 4	46 58 57 N 88 26 04 W	<b>FI R</b> 4s		3	Red.	
14790	- LIGHT 5		<b>FI G</b> 2.5s	14 4	4	SG on white pile.	
14795	- Daybeacon 7					SG on skeleton tower.	
14800	- Daybeacon 9					SG on skeleton tower.	
14805	- LIGHT 10		<b>FI R</b> 2.5s	14 4	4	TR on post.	
14810	- LIGHT 11 Marks northwest end of Middle Ground.		<b>FI G</b> 2.5s	14 4	4	SG on white pile.	
14815	- LIGHT 13		<b>Q G</b>	14 4	4	SG on white pile.	
14820	- SOUTH RANGE FRONT LIGHT		<b>Q W</b>	27 8		KRW on gray skeleton tower.	Visible all around, higher intensity on range line.
14825	- SOUTH RANGE REAR LIGHT 1,600 feet, 136° from front light.		<b>Iso W</b> 6s	58 18		KRW on gray skeleton tower.	Visible on range line only.
14830	- LIGHT 15		<b>FI G</b> 2.5s	14 4	4	SG on white pile.	
14835	- LIGHT 17		<b>FI G</b> 2.5s	14 4	4	SG on white pile.	
14840	- LIGHT 16		<b>FI R</b> 2.5s	14 4	4	TR on white pile.	
14845	- LIGHT 19		<b>FI G</b> 2.5s	14 4	4	SG on post.	
14850	- LIGHT 18		<b>FI R</b> 2.5s	14 4	4	TR on white pile.	
14855	- LIGHT 20		<b>Q R</b>	14 4	4	TR on white pile.	
14860	PRINCESS POINT RANGE FRONT LIGHT		<b>Q W</b>	22 7		KRW on gray skeleton tower.	Visible all around, higher intensity on range line.
14865	PRINCESS POINT RANGE REAR LIGHT 1,100 feet, 164.5° from front light.		<b>Iso W</b> 6s	39 12		KRW on gray skeleton tower.	Visible on range line only.
14870	- LIGHT 22		<b>FI R</b> 2.5s	13 4	4	TR on white pile.	
14875	- Buoy 24	47 01 51 N 88 28 40 W				Red nun.	Maintained from May 7 to Nov. 15.
14880	- LIGHT 25		<b>FI G</b> 2.5s	15 5	4	SG on white pile.	
14885	- Buoy 26					Red nun.	
14890	- Lighted Buoy 27		<b>Q G</b>		4	Green.	
14895	Pike Bay Obstruction Daybeacons (5)	47 01 42 N 88 31 18 W		16 5		NW on posts worded DANGER SUBMERGED PILINGS.	Private aids.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
14900	- Lighted Buoy "KW"	47 04 09 N 88 29 25 W	Fl (2+1) R 4s		4	Red.	
<b>Torch Lake Canal</b>							
<i>Buoys maintained from May 15 to Oct. 15.</i>							
14905	- Buoy 1	47 05 43 N 88 25 38 W				Green can.	
14906	- Buoy 2					Red nun.	
14907	- Buoy 3					Green can.	
14908	- Buoy 4					Red nun.	
14909	- Buoy 5	47 07 21 N 88 24 26 W				Green can.	
14910	- Buoy 6	47 07 21 N 88 24 24 W				Red nun.	
14911	- Buoy 7					Green can.	
14912	- Buoy 9	47 07 48 N 88 24 21 W				Green can.	
14913	- Buoy 10	47 07 48 N 88 24 19 W				Red nun.	
14914	- Buoy 11					Green can.	
14915	- Buoy 12	47 08 02 N 88 24 17 W				Red nun.	
14915.5	Buoy 13	47 08 11 N 88 24 19 W				Green can.	
14916	- Buoy 14					Red nun.	
14917	- Buoy 15					Green can.	
14918	- Buoy 16					Red nun.	
14919	- Buoy 17	47 09 01 N 88 24 42 W				Green can.	
14920	- Buoy 18					Red nun.	
14921	- Buoy 19	47 09 17 N 88 24 51 W				Green can.	
14922	- Buoy 20	47 09 26 N 88 24 53 W				Red nun.	
14923	- Buoy 21					Green can.	
14925	LAKE LINDEN HARBOR BUOY 1	47 10 37 N 88 24 33 W				Green can.	
<b>Keweenaw Waterway</b>							
14926	Torch Lake Southwest Arm Obstruction Buoy 2	47 08 59 N 88 27 03 W				Red nun.	Maintained from May 15 to Oct. 14.
<i>Lighted buoys maintained from May 14 to Nov. 14.</i>							
14935	- Buoy 30 Marks west side of shoal.					Red nun.	
14937	- Buoy 30A	47 06 05 N 88 30 03 W				Red nun.	Maintained from May 7 to Nov. 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
14940	<b>Pilgrim Point Leading Light</b>	47 06 24 N 88 30 24 W	<b>FI W</b> 4s	22 7	12	NB on post.	Higher intensity beam on bearing 165°.
14945	- Lighted Buoy 31		<b>Q G</b>		4	Green.	Can; winter marker.
14950	- Buoy 33					Green can.	
14955	- Buoy 34	47 07 21 N 88 32 48 W				Red nun.	Maintained from May 7 to Nov. 15.
14960	- Lighted Buoy 35		<b>FI G</b> 4s		4	Green.	
14965	- Buoy 36					Red nun.	
14970	OSCEOLA POINT LIGHT	47 07 24 N 88 35 36 W	<b>Q R</b>	20 6	4	TR on post.	
14975	<i>Atlantic Point Lighted Buoy 37</i>		<b>FI G</b> 4s		4	Green.	
14980	- Buoy 39					Green can.	
14985	- Buoy 40	47 07 40 N 88 36 59 W				Red nun.	Maintained from May 7 to Nov. 15.
14990	- Lighted Buoy 42		<b>FI R</b> 4s		4	Red.	
14995	COLE CREEK LIGHT		<b>FI G</b> 2.5s	25 8	5	SG on post.	
15000	- Buoy 44	47 07 58 N 88 37 20 W				Red nun.	Maintained from May 7 to Nov. 15.
15005	- Buoy 46	47 08 14 N 88 37 28 W				Red nun.	Maintained from May 7 to Nov. 15.
15010	- Buoy 48	47 09 11 N 88 37 48 W				Red nun.	
15015	- Lighted Buoy 49		<b>FI G</b> 4s		3	Green.	Can; winter marker.
15025	- Lighted Buoy 50		<b>FI R</b> 4s		4	Red.	Nun; winter marker.
15030	<i>Keweenaw Waterway Lighted Buoy 51</i>	47 10 14 N 88 38 29 W	<b>FI G</b> 2.5s		4	Green.	Replaced by can from Nov. 14 to May 14.
15035	- Buoy 52	47 10 12 N 88 38 21 W				Red nun.	Maintained from May 7 to Nov. 15.
15040	ROULEAU POINT RANGE FRONT LIGHT	47 11 36 N 88 37 06 W	<b>Q W</b>	22 7		KRW on skeleton tower.	Higher intensity beam to NE and S. Also serves as a leading light for Lily Pond Lower Canal.
15045	ROULEAU POINT RANGE REAR LIGHT 1,280 feet, 033.5° from front light.		<b>F W</b>	51 16		KRW on skeleton tower.	
15050	- Buoy 54	47 10 23 N 88 38 13 W				Red nun.	Maintained from May 7 to Nov. 15.
15055	- Buoy 55	47 10 29 N 88 38 13 W				Green can.	
15060	- Buoy 56	47 10 52 N 88 37 45 W				Red nun.	Maintained from May 7 to Nov. 15.
15065	- Buoy 57	47 10 52 N 88 37 50 W					Maintained from May 7 to Nov. 15.
15070	- Buoy 59	47 11 19 N 88 37 25 W				Green can.	Maintained from May 7 to Nov. 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
15075	- Buoy 60	47 11 22 N 88 37 17 W				Red nun.	Maintained from May 7 to Nov. 15.
15080	<i>Keweenaw Waterway Lighted Buoy 61</i>	47 11 28 N 88 37 19 W	<b>FI G</b> 2.5s		3	Green can.	Replaced by can from Nov 14 to May 14.
15085	LILY POND LEADING LIGHT	47 12 00 N 88 37 06 W	<b>FI R</b> 2.5s	25 8		TR on post. 23	
15090	- Buoy 63	47 11 52 N 88 37 11 W				Green can.	Maintained from May 7 to Nov. 15.
15095	LILY POND SOUTH LIGHT 68		<b>FI R</b> 4s	25 8	5	TR on post.	
15100	LILY POND NORTH LIGHT 70		<b>Q R</b>	25 8	5	TR on post.	
<b>Keweenaw Upper Entrance</b>							
15105	- EAST REVETMENT LIGHT 72	47 13 36 N 88 37 30 W	<b>FI R</b> 4s	25 8	5	TR on post.	
15110	- WEST REVETMENT LIGHT	47 13 36 N 88 37 36 W	<b>FI G</b> 4s	25 8	5	SG on post.	
15115	- WEST BREAKWATER LIGHT	47 14 00 N 88 37 54 W	<b>FI G</b> 4s	32 10	5	SG on post.	
15120	- Light	47 14 06 N 88 37 48 W	<b>FI W</b> 15s	82 25	18	White square tower on cylindrical base.	Standby light of reduced intensity. HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 1.
<b>BIG BAY POINT TO REDRIDGE (Chart 14964)</b>							
15130	GRAND TRAVERSE BAY HARBOR LIGHT 2	47 11 18 N 88 14 06 W	<b>FI (2) R</b> 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	29 9	7	TR on post.	
15135	GRAND TRAVERSE BAY HARBOR LIGHT 3		<b>FI G</b> 2.5s	27 8	4	SG on post.	
15140	Bete Grise Bay Shoal Buoy 1					Green can.	
15145	LAC LA BELLE SOUTH PIERHEAD LIGHT		<b>FI G</b> 4s	29 9	6	SG on post.	
15150	LAC LA BELLE NORTH PIERHEAD LIGHT		<b>FI R</b> 4s	25 8	4	2 TR on gray pole.	
15151	<b>Mendota Light</b>	47 22 24 N 87 58 00 W	<b>FI W</b> 20s	44 13		Square buff-brick tower in front of dwelling with steep gable roof. 37	Private aid.
15155	<i>Keweenaw Point Lighted Buoy 1</i>		<b>FI G</b> 4s		4	Green.	Maintained from May 14 to Oct. 14.
15160	Gull Rock Buoy 4					Red nun.	
15165	GULL ROCK LIGHT	47 25 00 N 87 39 48 W	<b>FI (2) W</b> 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	50 15	9	White square tower on dwelling. 46	
15170	<b>Manitou Light</b>	47 25 11 N 87 35 13 W	<b>FI W</b> 10s	81 25	18	Cylindrical tower. 80	RACON: M (---). HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from 14 May to 14 Oct.
15175	<b>Copper Harbor Light</b>	47 28 30 N 87 51 36 W	<b>FI G</b> 6s	90 27	21	On white skeleton tower near white dwelling. 62	Standby light of reduced intensity.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
15180	Copper Harbor Entrance Bell Buoy CH	47 28 41 N 87 51 52 W				Red and white stripes.	Maintained from May 14 to Oct. 14.
15185	COPPER HARBOR RANGE FRONT LIGHT	47 28 12 N 87 52 00 W	<b>Q W</b>	22 7		KWR on red tower on small house. 22	
15190	COPPER HARBOR RANGE REAR LIGHT 400 feet, 190° from front light.		<b>F W</b>	41 12		KWR on red tower on skeleton tower. 32	
15191	Copper Harbor Crib Buoy	47 28 12 N 87 53 03 W				White with orange bands and orange diamond.	Maintained from May 15 to Oct. 15. Private aid.
15192	Copper Harbor Shoal Buoy	47 28 17 N 87 53 42 W				White with orange bands and orange diamond.	Maintained from May 15 to Oct. 15. Private aid.
15195	<b>Eagle Harbor Light</b>	47 27 36 N 88 09 30 W	<b>Al WR</b> 20s 0.1s W fl 9.9s ec. 0.1s R fl 9.9s ec.	60 18	W 29 R	White octagonal tower on red dwelling. 44	Obscured 150° to 330°. Standby light of reduced intensity.
15205	Eagle Harbor Shoal Gong Buoy 1	47 27 50 N 88 09 30 W				Green.	Maintained from May 14 to Oct. 14
15210	EAGLE HARBOR RANGE FRONT LIGHT	47 27 18 N 88 09 06 W	<b>Q G</b>	25 8		KRW on post. 19	
15215	EAGLE HARBOR RANGE REAR LIGHT 356.6 yards, 105° from front light.		<b>Iso G</b> 6s	34 10		KRW on gray tower.	
<b>REDRIDGE TO SAXON HARBOR (Chart 14965)</b>							
15220	ONTONAGON HARBOR EAST BREAKWATER LIGHT	46 52 42 N 89 19 42 W	<b>Iso G</b> 6s	25 8	6	SG on pile.	
15225	ONTONAGON HARBOR WEST BREAKWATER LIGHT	46 52 48 N 89 19 48 W	<b>FI R</b> 4s	31 9	7	White skeleton tower with upper part enclosed.	HORN: 2 blasts ev 60s (3s bl-3s sl-3s bl-51s sl). Operates from May 1 to Oct. 20.
15230	BLACK RIVER EAST BREAKWATER LIGHT 1	46 40 10 N 90 02 54 W	<b>FI G</b> 4s	31 9	6	SG on post.	
15235	BLACK RIVER WEST BREAKWATER LIGHT 2	46 40 06 N 90 02 54 W	<b>FI R</b> 4s	18 5	4	TR on tower.	Maintained from May 28 to Oct. 14.
15240	Black River Buoy 3	46 40 06 N 90 02 53 W				Green can.	Maintained from May 21 to Oct. 21.
15245	SAXON HARBOR EAST BREAKWATER LIGHT	46 33 48 N 90 26 18 W	<b>FI G</b> 6s	29 9	7	SG on post.	
15250	SAXON HARBOR WEST BREAKWATER LIGHT	46 33 48 N 90 26 18 W	<b>FI R</b> 6s	25 8	5	TR on white column.	
<b>APOSTLE ISLANDS (Chart 14973)</b>							
15255	<b>Outer Island Light</b>	47 04 36 N 90 25 00 W	<b>FI W</b> 10s	130 40	15	White conical tower with dwelling attached. 80	
15260	GULL ISLAND LIGHT	46 54 24 N 90 26 36 W	<b>FI W</b> 2.5s	56 17	7	Black square skeleton tower.	
15265	STOCKTON ISLAND HARBOR EAST ENTRANCE LIGHT	46 54 54 N 90 33 06 W	<b>FI G</b> 2.5s	18 5		SG on post.	Private aid.
15270	STOCKTON ISLAND HARBOR WEST ENTRANCE LIGHT		<b>FI R</b> 2.5s	18 5		TR on post.	Private aid.
15275	<b>Michigan Island Light</b>	46 52 18 N 90 29 48 W	<b>FI W</b> 6s	170 52	11	White cylindrical tower. 102	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
15280	LA POINTE LIGHT	46 43 42 N 90 47 06 W	<b>Iso G</b> 6s	70 21	8	White cylindrical tower. 51	
15290	<i>Madeline Island Lighted Buoy 4</i> Marks west side of shoal.		<b>FI R</b> 4s			Red.	Nun; winter marker. Maintained from May 21 to Nov. 21.
15295	CHEQUAMEGON POINT LIGHT	46 43 42 N 90 48 36 W	<b>FI G</b> 4s	33 10	7	White cylindrical tower. 29	
<b>Chequamegon Bay</b>							
15300	<i>Houghton Point Lighted Buoy 6</i>	46 41 48 N 90 50 45 W	<b>FI R</b> 4s		4	Red.	Maintained from May 21 to Nov. 21.
15305	<i>- Lighted Buoy 1</i> Marks west side of shoal.		<b>FI G</b> 4s		4	Green.	Maintained from May 21 to Nov. 21.
<b>ASHLAND AND WASHBURN HARBORS (Chart 14974)</b>							
<b>Chequamegon Bay</b>							
<b>Ashland Harbor</b>							
15310	- BREAKWATER LIGHT	46 37 42 N 90 52 12 W	<b>FI W</b> 6s	60 18	9	White octagonal pyramidal tower.	
15315	- BREAKWATER SOUTH LIGHT	46 37 06 N 90 50 30 W	<b>FI R</b> 4s	21 6	5	White pile.	
15355	<i>- Lighted Buoy 1</i>	46 36 07 N 90 53 27 W	<b>FI G</b> 4s		4	Green can.	Replaced by can from Nov. 21 to May 21.
15360	- Buoy 2					Red nun.	
15365	- Buoy 3					Green can.	
15370	<i>- Lighted Buoy 4</i>		<b>Q R</b>		4	Red.	Replaced by nun from Nov. 21 to May 21.
15375	- Buoy 5					Green can.	
15380	-Buoy 6	46 35 47 N 90 53 58 W				Red.	
15400	Reiss Coal Co. Dock Buoy 2					Red spar.	Maintained from Apr. 1 to Dec. 1. Private aid.
15404	ASHLAND MARINA SOUTH BREAKWATER LIGHT	46 35 36 N 90 53 18 W	<b>FI W</b> 2.5s	17 5		NW on post worded DANGER.	Maintained from May 1 to Nov. 1. Private aid.
15405	ASHLAND MARINA LIGHT 1	46 35 36 N 90 53 18 W	<b>FI G</b> 2.5s	20 6		SG on post.	Maintained from May 1 to Nov. 1. Private aid.
15406	ASHLAND MARINA LIGHT 2	46 35 42 N 90 53 24 W	<b>FI R</b> 2.5s	21 6		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
15410	ASHLAND MARINA BREAKWATER LIGHT		<b>Q W</b>	20 6		NW on post worded DANGER.	Maintained from May 1 to Nov. 1. Private aid.
15415	<i>Ashland Lighted Obstruction Buoy</i>	46 35 48 N 90 53 24 W	<b>Q W</b>			White with orange bands and diamond worded DANGER PILINGS.	Maintained from May 1 to Nov. 1. Private aid.
15420	WASHBURN HARBOR SOUTH BREAKWATER LIGHT 2	46 40 02 N 90 53 18 W	<b>FI R</b> 4s	20 6		TR on post.	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
<b>LAKE SUPERIOR</b>							
15425	WASHBURN HARBOR NORTH BREAKWATER LIGHT 1	46 40 03 N 90 53 17 W	<b>FI G</b> 4s	20 <b>6</b>		SG on post.	Maintained from Apr. 1 to Dec. 1. Private aid.
15430	6TH AVE. BREAKWALL LIGHT	46 39 57 N 90 54 09 W	<b>F Y</b>	7 <b>2</b>		On post.	Maintained from Apr. 1 to Dec. 1. Private aid.
<b>APOSTLE ISLANDS (Chart 14973)</b>							
15440	MADLINE ISLAND MARINA ENTRANCE SOUTH LIGHT		<b>FI R</b> 4s	15 <b>5</b>		TR on white metal frame.	Maintained from May 1 to Nov. 1. Private aid.
15445	MADLINE ISLAND MARINA ENTRANCE NORTH LIGHT		<b>FI W</b> 4s	15 <b>5</b>		Green square daymark on white metal frame.	Maintained from May 1 to Nov. 1. Private aid.
15450	LAPORTE HARBOR DETACHED BREAKWATER WEST LIGHT	46 46 42 N 90 47 24 W	<b>Q W</b>	26 <b>8</b>		On post.	Private aid.
15455	LAPORTE HARBOR DETACHED BREAKWATER EAST LIGHT	46 46 42 N 90 47 18 W	<b>Q W</b>	26 <b>8</b>		On post.	Private aid.
15460	MADLINE ISLAND BREAKWATER LIGHT	46 46 42 N 90 47 24 W	<b>FI G</b> 4s	28 <b>9</b>	5	SG on pole.	
<b>Port Superior Marina</b>							
<i>Aids maintained from Apr. 15 to Nov. 1.</i>							
15465	- Shoal Buoy					Green can.	Maintained from May 1 to Oct. 31. Private aid.
15470	- Buoy 2					Red.	Private aid.
15475	- Buoy 4					Red.	Private aid.
15480	- Buoy 5					Green.	Private aid.
15485	- Buoy 6					Red.	Private aid.
15490	- LIGHT 7		<b>FI G</b> 4s	15 <b>5</b>		On pile.	Private aid.
15495	- LIGHT 8		<b>FI R</b> 4s	15 <b>5</b>		On pile.	Private aid.
<b>APOSTLE ISLANDS (Chart 14973)</b>							
15500	Bayfield Ruins Buoy 1					Green can.	Maintained from May 21 to Oct. 21.
15505	MATTSON LIGHT		<b>Q R</b>	13 <b>4</b>		Diamond daymark on pile.	Maintained from May 1 to Nov. 1. Private aid.
15510	BAYFIELD HARBOR SOUTH BREAKWATER LIGHT	46 48 30 N 90 48 42 W	<b>FI G</b> 4s	25 <b>8</b>	7	SG on post.	Maintained from Apr. 1 to Nov. 30. HORN: 1 blast ev 15s (2s bl). Operates when visibility is less than 2 miles.
15515	Bayfield Harbor Daybeacon 3	46 48 36 N 90 48 36 W				SG on post.	Maintained from May 1 to Dec. 1. Private aid.
15520	BAYFIELD HARBOR NORTH BREAKWATER LIGHT	46 48 36 N 90 48 36 W	<b>FI R</b> 4s	28 <b>9</b>	6	TR on white column.	
15525	BAYFIELD MUNICIPAL BREAKWATER LIGHT		<b>Iso G</b> 6s	25 <b>8</b>		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
<b>LAKE SUPERIOR</b>							
15527	BAYFIELD FERRY LANDING BREAKWATER LT 1	46 48 43 N 90 48 39 W	FI R 4s	25 8		On post.	Maintained from Apr. 15 to Nov. 1. Private aid.
15527	BAYFIELD FERRY LANDING BREAKWATER LT 2	46 48 43 N 90 48 39 W	FI R 4s	25 8		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>Red Cliff</b>							
15530	- BREAKWATER LIGHT	46 51 12 N 90 47 18 W	FI R 4s	18 5		On pile.	Maintained from May 1 to Nov. 1. Private aid.
15545	- Point Lighted Buoy 4		FI R 4s		4	Red.	Maintained from May 21 to Oct. 14.
<b>APOSTLE ISLANDS (Chart 14973)</b>							
15550	LITTLE MANITOU ISLAND LIGHT	46 57 42 N 90 41 06 W	FI G 4s	21 6	6	SG on skeleton tower.	
15555	RASPBERRY ISLAND LIGHT	46 58 18 N 90 48 18 W	FI W 2.5s	58 18	7	Column with white box at base.	
15560	Marina Shoal Buoy 3					Green can.	
15565	<b>Devils Island Light</b>	47 04 48 N 90 43 42 W	FI R 10s	100 30	13	Cylindrical tower. 71	Flash intensities alternate.
15570	<i>York Island Shoals</i> Lighted Bell Buoy 1 Marks west side of shoal.	47 01 35 N 90 51 23 W	FI G 4s		5	Green.	Maintained from May 21 to Oct. 14.
15575	Sand Island Buoy 2 Marks north side of shoal.					Red nun.	
15580	SAND ISLAND LIGHT	47 00 12 N 90 56 12 W	FI W 6s	60 18	7	Red tower on dwelling.	
15581	LITTLE SAND BAY HARBOR EAST LIGHT 1	46 56 47 N 90 53 31 W	FI G 2.5s	17 5		On post.	Private aid.
15582	LITTLE SAND BAY HARBOR WEST LIGHT 2	46 56 47 N 90 53 33 W	FI R 2.5s	17 5		On post.	Private aid.
15584	Cornucopia West Pier Entrance Buoy 2 Marks best water due to shoaling.	46 51 34 N 91 06 16 W				Red nun.	Private aid. Maintained from May 1 to Oct. 15.
<b>LITTLE GIRLS POINT TO SILVER BAY (Chart 14966)</b>							
15585	CORNUCOPIA EAST PIER LIGHT	46 51 36 N 91 06 18 W	FI G 2.5s	29 9	8	SG on post.	Higher intensity beam lakeward.
15586	CORNUCOPIA MOORING BASIN LIGHT A	46 51 30 N 91 06 06 W	Iso Y 5s	20 6		Triangular yellow dayboard with orange border.	Maintained from Apr. 1 to Nov. 1. Private aid.
15590	PORT WING EAST PIER LIGHT	46 47 36 N 91 23 12 W	FI G 4s	27 8	7	SG on post. 27	

# Section 12

## Lake Superior Duluth-Superior Harbor to Minnesota-Ontario Border Lakes

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
<b>DULUTH - SUPERIOR HARBOR (Chart 14975)</b>							
<b>Superior Entry</b>							
15595	- South Breakwater Light	46 42 37 N 92 00 22 W	FI G 5s	70 21	22	White cylindrical tower on fog signal building.	HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
15600	- NORTH BREAKWATER LIGHT	46 42 41 N 92 00 30 W	Q R	38 12	6	TR on post.	
15605	- INNER NORTH PIERHEAD LIGHT	46 42 30 N 92 00 48 W	Iso R 6s	35 11	4	TR on post.	
15610	- INNER SOUTH PIERHEAD LIGHT	46 42 27 N 92 00 45 W	Iso G 6s	35 11	5	SG on post.	
15615	SUPERIOR HARBOR BASIN LIGHT 1	46 42 16 N 92 01 01 W	FI G 2.5s	35 11	4	SG on post.	
<b>Allouez Bay</b>							
15620	ALLOUEZ ORE DOCK NO. 3 WEST LIGHT	46 42 06 N 96 01 06 W	FI W 4s	14 4		On pile.	Maintained from Mar. 1 to Dec. 1. Private aid.
15625	ALLOUEZ ORE DOCK NO. 3 EAST LIGHT		FI W 4s	14 4		On pile.	Maintained from Mar. 1 to Dec. 1. Private aid.
15630	- Entrance Buoy 1					Green can.	
15635	- Channel Buoy 2					Red nun.	
15640	- Lighted Buoy 3		FI G 4s		4	Green.	Replaced by can from Dec. 21 to Apr. 28.
15645	- Channel Buoy 4					Red nun.	
15650	- Channel Buoy 5					Green can.	
<b>Superior Harbor Basin</b>							
15660	- Anchorage Buoy A					Yellow nun.	
15665	- Anchorage Buoy B					Yellow nun.	
15670	- Buoy 1					Green can.	
15675	- Buoy 3					Green can.	
15680	- Lighted Buoy 4	46 42 30 N 92 01 55 W	FI R 4s		4	Red.	Maintained from Apr. 28 to Dec. 07.
15685	- Buoy 5					Green can.	
<b>Superior Front Channel</b>							
15690	- RANGE FRONT LIGHT	46 42 24 N 92 02 06 W	Q G	42 13		KRW on skeleton tower.	Visible on range line only.
15695	- RANGE FRONT PASSING LIGHT		FI G 4s	18 5		On range front light structure.	Visible from 150° to 270°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
15700	- RANGE REAR LIGHT 850 feet, 136° from front light.		<b>Oc G 4s</b>	70 21		KRW on skeleton tower.	
15705	- Lighted Buoy 2	46 42 51 N 92 02 37 W	<b>Q R</b>		4	Red.	Replaced by nun from Dec. 07 to Apr. 28.
<b>Barkers Island Marina</b>							
<i>Buoys maintained from May 1 to Nov. 1.</i>							
15710	- Lighted Buoy 1	46 42 50 N 92 02 49 W	<b>FI G 2s</b>			Green.	Private aid.
15715	- Lighted Buoy 2	46 42 51 N 92 02 50 W	<b>FI R 2s</b>			Red.	Private aid.
15720	- Buoy 3					Green can.	Private aid.
15725	- Buoy 4					Red nun.	Private aid.
15730	- Buoy 5					Green can.	Private aid.
15735	- Buoy 6					Red nun..	Private aid.
15740	- Buoy 7					Green can.	Private aid.
15745	- Buoy 8					Red nun.	Private aid.
15746	- Buoy 9					Green can.	Private aid.
15747	- Buoy 10					Red nun.	Private aid.
<b>Superior Front Channel</b>							
<i>Lighted buoys maintained from Apr. 28 to Dec. 14.</i>							
15750	- Buoy 1					Green can.	
15755	- Buoy 3					Green can.	
15760	- Buoy 4					Red nun.	
15765	- Buoy 5					Green can.	
15770	- Lighted Buoy 6	46 43 14 N 92 03 09 W	<b>FI R 4s</b>		3	Red.	Maintained from Apr. 28 to Dec. 07.
15775	- Buoy 7					Green can.	
15780	- Buoy 8					Red nun.	
15785	- Buoy 9					Green can.	
15790	- Lighted Buoy 10	46 43 39 N 92 03 45 W	<b>FI R 4s</b>		3	Red.	Maintained from Apr. 28 to Dec. 07.
15795	- Buoy 12					Red nun.	
15800	- Buoy 13					Green can.	
15805	- Lighted Buoy 14	46 44 03 N 92 04 19 W	<b>FI R 4s</b>		4	Red.	Maintained from Apr. 28 to Dec. 07.
15810	- Buoy 15					Green can.	
15815	- Buoy 16					Red nun.	
15820	- Lighted Buoy 18	46 44 31 N 92 04 58 W	<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 07 to Apr. 28.
15825	- Lighted Buoy 19	46 44 32 N 92 05 11 W	<b>FI G 4s</b>		4	Green.	Maintained from Apr. 28 to Dec. 07.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
15830	East Gate Basin Buoy 20					Red nun.	
	<b>Duluth Harbor</b>						
	<i>Lighted buoys maintained from Apr. 21 to Dec. 21.</i>						
15840	- Breakwater Buoy 2					Red nun.	
15845	- <b>South Breakwater Outer Light</b>	46 46 48 N 92 05 15 W	<b>F G</b>	44 13	17	White tower on fog signal building. 35	HORN: 2 bl ev 60s (3s bl-3s si-3s bl-51s si). Operates from Apr. 1 to Dec. 1.
15855	- <b>North Pier Light</b>	46 46 54 N 92 05 18 W	<b>Iso R 6s</b>	43 13	16	White cylindrical tower with black top and base. 37	
15860	- <b>South Breakwater Inner Light</b>	46 46 44 N 92 05 31 W	<b>FI W 5s</b>	68 21	18	Black cylindrical tower with white lantern room. 67	Light obscured from 270° through 325°.
15865	- Basin Buoy 1					Green can.	
15870	- <i>Basin Traffic Lighted Buoy</i>	46 46 30 N 92 06 00 W	<b>Mo (A) W</b>		7	Red and white stripes.	Maintained from Apr. 21 to Dec. 14.
15875	- <i>Basin Lighted Buoy 2</i>	46 46 22 N 92 06 12 W	<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
15880	- <i>Basin Lighted Buoy 3</i>	46 46 25 N 92 05 43 W	<b>FI G 4s</b>		3	Green.	Maintained from Apr. 21 to Dec. 14.
	<b>Harbor Cove Marina</b>						
	<i>Lights maintained from May 1 to Nov. 1.</i>						
15885	- LIGHT 1	46 46 18 N 92 05 36 W	<b>F G</b>	10 3		On post.	Private aid.
15890	- LIGHT 2		<b>F R</b>	10 3		On post.	Private aid.
15895	- LIGHT 3		<b>F G</b>	10 3		On post.	Private aid.
15900	- LIGHT 4		<b>F R</b>	10 3		On post.	Private aid.
	<b>Duluth Harbor</b>						
	<i>Lighted buoys maintained from Apr. 21 to Dec. 21.</i>						
15905	- <i>Basin Lighted Buoy 5</i>	46 46 06 N 92 05 48 W	<b>FI G 4s</b>		4	Green.	Maintained from Apr. 21 to Dec. 14.
15910	- Basin Anchorage Buoy A					Yellow can.	
15915	- Basin Anchorage Buoy B					Yellow can.	
15920	- Basin Anchorage Buoy C					Yellow can.	
15925	- <i>Basin Lighted Buoy 7</i>	46 45 28 N 92 05 25 W	<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
15930	DULUTH MARINE TERMINAL EAST LIGHT		<b>F R</b>	28 9		On white pile.	Maintained from Apr. 15 to close of navigation. Private aid.
15935	DULUTH MARINE TERMINAL SOUTH LIGHT		<b>F R</b>	28 9		On white pile.	Maintained from Apr. 15 to close of navigation. Private aid.
15940	<i>Rices Point Lighted Buoy 9</i>	46 45 13 N 92 05 19 W	<b>Q G</b>		3	Green.	Replaced by can from Dec. 14 to Apr. 21.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
15945	INTERSTATE FISHING PIER EAST LIGHT	47 45 00 N 92 06 00 W	<b>F R</b>	15 5		On pile.	Maintained from Mar. 15 to Jan. 15. Private aid.
15950	INTERSTATE FISHING PIER WEST LIGHT		<b>F R</b>	15 5		On pile.	Maintained from Mar. 15 to Jan. 15. Private aid.
15955	East Gate Basin Buoy 11					Green can	
<b>Rices Point Boatslip</b>							
<i>Aids maintained from Apr. 15 to Nov. 1.</i>							
15960	- Buoy 1	46 45 00 N 92 06 00 W				Green can.	Private aid.
15965	- Buoy 2					Red nun.	Private aid.
15970	- Buoy 3					Green can.	Private aid.
15975	- Buoy 4					Red nun.	Private aid.
15980	- Buoy 5					Green can.	Private aid.
15985	- Buoy 6					Red nun.	Private aid.
<b>Hearding Island Channel</b>							
<i>Buoys maintained from Jun. 1 to Oct. 1.</i>							
15995	- Entrance Buoy 1					Green can.	Private aid.
16000	- Entrance Buoy 2					Red nun.	Private aid.
16005	- Entrance Buoy 4					Red nun.	Private aid.
16010	- Entrance Buoy 6					Red nun.	Private aid.
16015	ST. LOUIS BAY NORTH CHANNEL RANGE FRONT LIGHT (EASTERN SECTION)	46 44 12 N 92 08 42 W	<b>Q R</b>	41 12		KRW on skeleton tower.	
16020	ST. LOUIS BAY NORTH CHANNEL RANGE REAR LIGHT (EASTERN SECTION) 800 feet, 227° from front light.	46 44 04 N 92 08 48 W	<b>Iso R 6s</b>	61 19		KRW on skeleton tower. On same structure as St. Louis Bay South Channel Range Rear Light.	
<b>St. Louis Bay North Channel (Western Section)</b>							
16023	- Buoy 1					Green can.	
16025	- Buoy 2					Red nun.	
16030	- Lighted Buoy 3	46 44 36 N 92 07 56 W	<b>Q G</b>		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
16035	- Buoy 4					Red nun.	
16040	- Buoy 5					Green can.	
16045	- Buoy 6					Red nun.	
16050	- Buoy 7					Green can.	
16055	<i>St. Louis Bay Junction Lighted Buoy</i>	46 44 15 N 92 08 26 W	<b>FI (2+1) R 6s</b>		3	Red and green bands.	Replaced by nun from Dec. 7 to Apr. 28.
16060	Howards Bay Buoy 2	46 44 42 N 92 06 06 W				Red nun.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
<b>St. Louis Bay South Channel (Eastern Section)</b>							
16065	- Buoy 2					Red nun.	
16070	- Lighted Buoy 2A		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 21.
16075	- Buoy 3					Green can.	
16076	General Mills Lighted Turning Cell	46 44 38 N 92 06 36 W	<b>FI W</b> 2s			White with orange bands and diamond worded DANGER CRIB.	Private aid.
16080	- Buoy 4					Red nun.	
16085	- Buoy 5					Green can.	
<b>St. Louis Bay Cross Channel</b>							
16090	- Lighted Buoy 2		<b>Q R</b>		4	Red.	Replaced by nun from Dec. 7 to Apr. 21.
16095	- Lighted Buoy 1		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 7 to Apr. 21.
16105	- Lighted Buoy 6		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 7 to Apr. 21.
16115	- Buoy 8					Red nun.	
<b>St. Louis Bay South Channel (Western Section)</b>							
16120	- RANGE FRONT LIGHT	46 44 06 N 92 08 44 W	<b>Q R</b>	41 12		KRW on skeleton tower.	
16125	- RANGE REAR LIGHT 600 feet, 247.5° from front light.	46 44 04 N 92 08 48 W	<b>Iso R</b> 6s	61 19		KRW on skeleton tower. On same structure as St. Louis Bay North Channel Range Rear Light.	
16130	- Buoy 6					Red nun.	
16135	- Buoy 7					Green can.	
16140	- Buoy 8					Red nun.	
16145	- Lighted Buoy 9		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 28 to Dec. 7.
16150	- Buoy 10					Red nun.	
16155	- Buoy 11					Green can.	
16160	- Buoy 12					Red nun.	
16165	- Lighted Buoy 13		<b>Q G</b>		4	Green.	Maintained from Apr. 28 to Dec. 7.
<b>St. Louis River Upper Channel</b>							
16175	- Entrance Buoy 1					Green can.	
16180	- Lighted Buoy 4		<b>Q R</b>		4	Red.	Replaced by nun from Dec. 7 to Apr. 28.
16185	- Buoy 5					Green can.	
16190	- Buoy 5A					Green can.	
<b>Minnesota Channel (Eastern Section)</b>							
16195	- RANGE FRONT LIGHT	46 43 12 N 92 08 36 W	<b>F G</b>	16 5		KRW on triangular tower.	Visible all around.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
16200	- RANGE REAR LIGHT 1,020 feet, 084.5° from front light.		<b>F G</b>	39 12		KRW on white cylindrical tower.	
16205	- <i>Lighted Buoy 6</i>	46 43 13 N 92 08 51 W	<b>FI R</b> 2.5s		3	Red.	Replaced by nun from Dec. 7 to Apr. 28.
16210	- <i>Lighted Buoy 7</i>		<b>Q G</b>		4	Green.	Replaced by can Dec. 7 from to Apr. 28.
16215	- Buoy 8					Red nun.	
16220	- <i>Lighted Buoy 9</i>		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 28 to Dec. 7.
16225	- <i>Lighted Buoy 10</i>	46 43 10 N 92 09 17 W	<b>FI R</b> 4s		3	Red.	Maintained from Apr. 28 to Dec. 7.
16230	- Buoy 13					Green can.	
16235	- <i>Lighted Buoy 14</i>		<b>FI R</b> 4s		4	Red.	Maintained from Apr. 28 to Dec. 7.
16240	- <i>Lighted Buoy 15</i>		<b>FI G</b> 4s		4	Green.	Maintained from Apr. 28 to Dec. 7.
16245	- Buoy 16					Red nun.	
16250	- <i>Lighted Buoy 19</i>		<b>FI G</b> 2.5s		4	Green.	Maintained from Apr. 28 to Dec. 7.
<b>Minnesota Channel (Western Section)</b>							
<i>Buoys maintained from Apr. 28 to Oct. 21.</i>							
16255	- Buoy 20					Red nun.	
16260	- Buoy 21					Green can.	
16265	- <i>Lighted Buoy 22</i>		<b>FI R</b> 4s		3	Red.	
16270	- Buoy 23					Green can.	
16275	- Buoy 24					Red nun.	
16280	- <i>Lighted Buoy 26</i>		<b>FI R</b> 4s		3	Red.	
16285	- Buoy 27					Green can.	
16290	- Buoy 28					Red nun.	
16295	- Buoy 29					Green can.	
16297	- Buoy 30					Red nun.	
16300	- Buoy 31					Green can.	
16305	- Buoy 32					Red nun.	
16308	- Buoy 33					Green can.	
16310	- Buoy 31A					Green can.	
16315	- Buoy 34					Red nun.	
16320	- Buoy 35					Green can.	
16322	- Buoy 36					Red nun.	
16325	- Buoy 37	46 41 45 N 92 11 37 W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
16330	- Buoy 38	46 41 43 N 92 11 35 W				Red nun.	
<b>St. Louis River</b>							
<i>Buoys maintained from Apr. 28 to Oct. 21.</i>							
16335	- Buoy 40	46 41 44 N 92 11 20 W				Red nun.	
16340	- Buoy 42	46 41 45 N 92 11 07 W				Red nun.	
16345	- Buoy 43					Green can.	
16350	- Buoy 44					Red nun.	
16355	- Buoy 46					Red nun.	
16357	St Louis River Buoy 45	46 41 37 N 92 10 46 W				Green can.	
16360	- Buoy 48					Red nun.	
16365	- Buoy 52					Red nun.	
16370	- Buoy 55					Green can.	
16375	- Buoy 56					Red nun.	
16380	- Buoy 57					Green can.	
16385	- Buoy 58					Red nun.	
16390	- Buoy 59					Green can.	
16395	- Buoy 60					Red nun.	
16400	- Buoy 61					Green can.	
16405	- Buoy 62					Red nun.	
16405.5	- St Louis River Buoy 62A	46 40 12 N 92 12 00 W				Red nun.	
16410	- Buoy 63					Green can.	
16415	- Buoy 64					Red nun.	
16420	- Buoy 65					Green can.	
16425	- Buoy 66					Red nun.	
16430	- Buoy 67					Green can.	
16435	- Buoy 68					Red nun.	
16440	- Buoy 69					Green can.	
16445	- Buoy 71					Green can.	
16450	- Buoy 73					Green can.	
16455	- Buoy 75					Green can.	
16460	- Buoy 76					Red nun.	
16465	- Buoy 77					Green can.	
16470	- Buoy 79					Green can.	
16475	- Buoy 80					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
16480	- Buoy 81					Green can.	
16485	- Buoy 83					Green can.	
16490	- Buoy 85					Green can.	
16491	McQuade Road Daybeacon					On single pole.	Maintained from Apr. 1 to Dec. 31. Private aid.
16492	McQuade Road Navigation Light		<b>FI R</b> 4s			On single pole.	Maintained from Apr. 1 to Dec. 31. Private aid.
<b>LITTLE GIRLS POINT TO SILVER BAY (Chart 14966)</b>							
<b>Knife River Harbor</b>							
16495	- ENTRANCE LIGHT	46 56 36 N 91 46 42 W	<b>FI G</b> 4s	31 9	5	SG on pile. 23	
<b>Two Harbors</b>							
16500	- Light	47 00 49 N 91 39 44 W	<b>FI (2) W</b> 20s 0.15s fl 4.85s ec. 0.15s fl 14.85s ec.	78 24		Square tower on dwelling. 50	Light obscured from 065° to 210°. Private aid.
16505	- East Breakwater Light	47 00 36 N 91 40 12 W	<b>FI R</b> 6s	32 10	10	Square pyramidal skeleton tower with upper part enclosed.	Standby light shows FI R 5s of reduced intensity. HORN: 2 blasts ev 30s (2s bl- 2s si-2s bl-24s si). Operates from May 1 to Oct. 20.
16515	- WEST BREAKWATER LIGHT	47 00 42 N 91 40 30 W	<b>FI G</b> 4s	26 8	4	SG on post.	
16520	DULUTH MISSABE & IRON RANGE RAILWAY CO. ORE DOCK NO. 6 LIGHT		<b>F R</b>	10 3		On pile.	Private aid.
16525	Agate Bay Buoy 2					Red nun.	
16530	Agate Bay Buoy 4					Red nun.	
16535	Agate Bay Buoy 6					Red nun.	
16536	TWIN POINTS PROTECTED ACCESS LIGHT	47 09 55 N 91 25 30 W	<b>F R</b>	14 4		On galvanized pipe.	Maintained from May 1 to Nov. 1. Private aid.
<b>BEAVER BAY TO PIGEON POINT (Chart 14967)</b>							
16540	NOAA Lighted Weather Buoy 45006	47 20 50 N 89 49 30 W	<b>FI (4) Y</b> 20s			Yellow disc-shaped hull with tripod mast.	Replaced by nun from Nov. 1 to Apr. 1.
16545	PELLET ISLAND LIGHT	47 16 12 N 91 15 54 W	<b>FI G</b> 10s	25 8			Maintained from Apr. 15 to Dec. 1. Private aid.
<b>Silver Bay</b>							
<i>Aids maintained from Apr. 15 to Dec. 1.</i>							
16550	- Lighted Buoy 1		<b>FI G</b> 4s			Green.	Private aid.
16555	- Lighted Buoy 2		<b>FI R</b> 4s			Red.	Private aid.
16560	- Lighted Buoy 3		<b>FI G</b> 4s			Green.	Private aid.
16565	- Buoy 4					Red nun.	Private aid.
16570	BEAVER ISLAND LIGHT	47 16 48 N 91 15 30 W	<b>FI R</b> 10s	20 6		Tower.	Private aid. HORN: 1 blast ev 30s (3s bl).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
16575	- LEADING LIGHT	47 16 48 N 91 15 54 W	<b>FI G</b> 4s	20 6		On black post.	Private aid.
16580	- LIGHT	47 17 12 N 91 15 30 W	<b>FI W</b> 30s	126 38		On top of boiler house.	Private aid.
<b>Taconite Harbor</b>							
Buoys maintained from Apr. 1 to Dec. 31.							
16585	- <i>West Entrance Lighted Buoy 1</i>		<b>FI G</b> 4s			Green.	Private aid.
16590	- <i>West Entrance Lighted Buoy 2</i>		<b>FI R</b> 4s			Red.	Private aid.
16595	- RANGE FRONT LIGHT		<b>F G</b>	86 26		On tower. 86	Visible 2° each side of centerline of channel. Private aid.
16600	- RANGE REAR LIGHT 1,550 feet, 028° from front light.		<b>F G</b>	154 47		On tower. 50	Visible 2° each side of centerline of channel. Private aid.
16604	- HARBOR OF REFUGE SOUTH BREAKWATER LIGHT	47 31 14 N 90 55 28 W	<b>Iso W</b> 4s	22 7		NW on tower worded CAUTION.	Private aid. Ra ref.
16605	- HARBOR OF REFUGE BREAKWATER LIGHT 3	47 31 16 N 90 55 25 W	<b>FI G</b> 4s	22 7		SG on tower.	Private aid. Ra ref.
16606	- HARBOR OF REFUGE INNER LIGHT	47 31 17 N 90 55 25 W	<b>Q R</b>	17 5		TR on tower.	Visible from 284° to 336°. Private aid.
16610	- WEST ENTRANCE LIGHT 4		<b>FI R</b> 4s	24 7		On tower. 12	Private aid.
16612	<i>University of Minnesota Research Buoy</i>	47 38 48 N 90 30 24 W	<b>FI Y</b> 4s			Meteorological Surface Buoy	Private aid.
<b>Grand Marais</b>							
16615	<b>GRAND MARAIS LIGHT</b>	47 44 43 N 90 20 16 W	<b>FI W</b> 2.5s	48 15	16	White square pyramidal skeleton tower with upper part enclosed.	Light Obscured from 170° to 190°. HORN: 2 blast ev 30s (2s bl-2s sl-2s bl-24s sl). Operates from May 1 to Oct. 20.
16625	- WEST BREAKWATER LIGHT 1	47 44 36 N 90 20 24 W	<b>FI G</b> 4s	32 10	5	White cylindrical tower with green band.	
16630	- HARBOR INNER BREAKWATER LIGHT 7	47 44 36 N 90 20 06 W	<b>FI G</b> 2.5s	14 4	4	SG on triangular tower.	
<b>BEAVER BAY TO PIGEON POINT (Chart 14967)</b>							
16635	GRAND PORTAGE BAY ENTRANCE LIGHT	47 57 12 N 89 38 18 W	<b>FI W</b> 4s	39 12	7	NR on skeleton tower.	
16645	GRAND PORTAGE PIER LIGHT	47 57 36 N 89 40 54 W	<b>FI W</b> 2.5s	12 4		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
16650	<i>Hat Point Lighted Bell Buoy 1</i>	47 57 01 N 89 38 40 W	<b>FI G</b> 4s		3	Green.	Maintained from May 28 to Oct. 14.
<b>ISLE ROYALE (Chart 14976)</b>							
<b>Isle Royale</b>							
16655	<b>Rock of Ages Light</b>	47 52 01 N 89 18 49 W	<b>FI W</b> 10s	130 40	17	White conical tower on cylindrical base. 117	
16660	- West End Buoy 2					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
16670	Thompson Island Wreck Buoy					White with orange bands worded WRECK.	Maintained from Jun. 15 to Sep. 30. Private aid.
16675	WINDIGO DOCK LIGHT		<b>Q R</b>	11 3		On post. 6	Maintained from Jun. 15 to Sep. 30. Private aid.
16680	Cumberland Point Buoy 2					Red nun.	Maintained from May 28 to Oct. 14.
<b>Siskiwit Bay Passage</b>							
16685	- Lighted Bell Buoy SB	47 53 47 N 88 53 07 W	<b>Mo (A) W</b>			6 Red and white stripes.	Maintained from May 28 to Oct. 14.
16690	- Buoy 1					Green can.	
16695	- Buoy 2					Red nun.	
16700	- Buoy 3					Green can.	
<b>ISLE ROYAL (Chart 14967)</b>							
16705	Harlem Reef Buoy 2					Red nun.	Maintained from May 28 to Oct. 14.
<b>ISLE ROYALE (Chart 14976)</b>							
16710	Isle Royale Light	47 56 54 N 88 45 42 W	<b>Fl W 6s</b>	72 22	10	White octagonal tower with dwelling attached. 61	
<b>Malone Bay</b>							
<i>Buoys maintained from May 28 to Oct. 14.</i>							
16715	- Entrance Buoy 2					Red nun.	
16720	- Entrance Buoy 3					Green can.	
16725	- Buoy 4					Red nun.	
16730	- Buoy 5					Green can.	
16745	Chippewa Harbor Daybeacon					NW on post.	Private aid.
<b>Rock Harbor</b>							
16750	Barge Cove Buoy A					White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16755	Barge Cove Buoy B					White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16757	Dollar Bay Entrance Buoy 2	48 06 18 N 88 33 12 W				Red nun.	Maintained from Jun. 15 to Sep. 15. Private aid.
16760	MOTT ISLAND DOCK LIGHT		<b>Q R</b>	10 3		On post. 6	Maintained from Jun. 15 to Sep. 30. Private aid.
16765	SNUG HARBOR DOCK LIGHT		<b>Q R</b>	12 4		On post. 8	Maintained from Jun. 15 to Sep. 30. Private aid.
16766	Windigo Water Intake Buoy					White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
16770	Middle Island Passage Lighted Bell Buoy 2	48 05 27 N 88 34 20 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Oct 14 to May 28.
16775	Middle Island Passage Buoy 1					Green can.	
16780	Middle Island Passage Buoy 3					Green can.	
16785	Saginaw Point Daybeacon					NW on post.	Private aid.
16790	Mott Island Shoal East Buoy					White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16795	Mott Island Shoal West Buoy Marks rock ledge.					White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16800	Daisy Farm East Buoy Marks reef.					White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16805	Daisy Farm West Buoy Marks reef.					White with orange bands; can.	Maintained from Jun. 15 to Sep. 15. Private aid.
16810	McCargoe Cove Entrance Buoy 1					Green can.	Maintained from Jun. 15 to Sep. 30. Private aid.
16815	McCargoe Cove Entrance Buoy 2					Red nun.	Maintained from Jun. 15 to Sep. 30. Private aid.
16820	<b>Blake Point Light</b>	48 11 30 N 88 25 18 W	<b>FI W</b> 2.5s	40 12	12	NR on skeleton tower.	
16825	Blake Point Five-Foot Shoal Buoy D Marks south side of shoal.					Black and red bands; can.	Maintained from May 28 to Oct. 14.
16830	Locke Point Buoy 2					Red nun.	Maintained from May 28 to Oct. 14.
<b>GRAND PORTAGE BAY TO SHESHEEB POINT (Chart 14968)</b>							
16835	<b>Passage Island Light</b>	48 13 24 N 88 22 00 W	<b>FI W</b> 5s	78 24	17	Octagonal tower. 44	RACON: G (---•). HORN: 1 blast ev 30s (3s bl). Operates year round.
16845	<b>Caribou Island Light</b> (C)	47 20 24 N 85 49 30 W	<b>FI W</b> 15s 1s fl 14s ec.	99 30	20	Hexagonal structure. 80	RACON: C (-•-•-•). Emergency light. Seasonal.
16850	NOAA Lighted Weather Buoy 45004	47 34 15 N 86 33 03 W	<b>FI (4) Y</b> 20s			Yellow disc-shaped hull with tripod mast.	Replaced by nun from Nov. 1 to Apr. 1.
16855	<b>Michipicoten Harbor Light</b> (C)	47 56 36 N 84 54 24 W	<b>FI W</b> 30s	88 27	18	Skeleton tower. 40	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	<b>Slate Islands Light</b> (C)	48 37 18 N 86 59 48 W	<b>Oc W</b> 10s fl 5s ec.	224 68	23	White tower. 22	Emergency light.
16870	<b>Battle Island Light</b> (C)	48 45 06 N 87 33 24 W	<b>FI (3) W</b> 24s fl 4s ec. fl 4s ec. fl 16s ec.	118 36	15	Tower. 43	Emergency light.
16880	NOAA Lighted Weather Buoy 45001	48 03 49 N 87 46 38 W	<b>FI (4) Y</b> 20s			Yellow disc-shaped hull with tripod mast.	Replaced by nun from Nov. 1 to Apr. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE SUPERIOR</b>							
16885	<b>Point Parphyry Light</b> (C)	48 20 25 N 88 38 53 W	<b>FFI W</b> 10s 1s fl 9s ec.	82 25	17	White slatted daymark on tower. 48	Fixed white between flashes. Emergency light.
16890	<b>Trowbridge Island Light</b> (C)	48 17 32 N 88 52 30 W	<b>FI W</b> 5s	114 35	18	White octagonal tower. 23	Emergency light.
16895	<b>Angus Island Light</b> (C)	48 14 12 N 89 00 24 W	<b>FI W</b> 20s 1s fl 19s ec.	81 25	18	Skeleton tower on four concrete piers.	Emergency light.
<b>Thunder Bay</b>							
16905	<b>THUNDER CAPE LIGHT</b> (C)	48 18 06 N 88 56 18 W	<b>FI W</b> 4s	35 11	6	Red and white rectangular daymark on tower. 25	
16910	<b>JARVIS ROCK LIGHT</b> (C)	48 06 12 N 89 17 36 W	<b>FI W</b> 4s	40 12	6	Red and white rectangular daymark on mast. 20	
16915	<b>Thunder Bay (Main) Light</b> (C)	48 26 00 N 89 11 42 W	<b>FI R</b> 5s	49 15	14	White square tower. 31	Floodlighted. HORN: 3 blasts ev 60s (2s bl- 3s si-2s bl-3s si-2s bl-48s si). Operates by keying the mike 5 times on VHF Channel 19. Emergency light.



# Section 13

## Minnesota-Ontario Border Lakes

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MINNESOTA-ONTARIO BORDER LAKES</b>							
<b>BIG TRAVERSE BAY (CHART 6211) (C)</b>							
16925	PENASSE ISLAND LIGHT (C)	49 22 18 N 94 57 30 W	<b>FI W</b> 4s	37 11	6	Red and white rectangular daymark on circular mast. 20	Visible from 181° to 076°.
16930	<i>Pine Creek Lighted Buoy 2</i>	49 21 09 N 95 03 34 W	<b>FI R</b> 4s		3	Red.	
16932	Pine Creek Buoy 3					Green can.	
16935	Pine Creek Buoy 4					Red nun.	
16940	<i>Crow Creek Lighted Buoy 1</i>		<b>FI G</b> 4s		4	Green.	
16945	Crow Creek Buoy 2					Red nun.	
16947	<i>Youngs Bay Lighted Buoy 1</i>	49 20 47 N 94 57 52 W	<b>FI G</b> 6s		4	Green.	
16950	Brush Island Buoy 2					Red nun.	
16955	Flag Island Buoy 2	49 20 07 N 94 53 02 W				Red nun.	
16960	Flag Island Buoy 3					Green can.	
16963	DRIFTWOOD POINT LIGHT	49 12 46 N 94 56 45 W	<b>FI W</b> 6s	35 11	6	NR on skeleton tower.	
16965	<i>Flag Island Lighted Buoy 4</i>		<b>FI R</b> 4s		3	Red.	Maintained from May 7 to Nov. 1.
16970	BOUCHA ISLAND LIGHT (C)	49 17 42 N 94 49 12 W	<b>FI W</b> 4s	38 12	6	Green and white banded daymark on mast.	
16975	OAK ISLAND LIGHT 1	49 18 12 N 94 53 06 W	<b>FI G</b> 4s	35 11	6	SG on skeleton tower.	
16976	Oak Island Buoy 4	49 18 17 N 94 49 24 W				Red nun.	Maintained from May 07 to Oct. 14.
16977	Oak Island Buoy 2					Red nun.	Maintained from May 07 to Oct. 14.
16980	Sugar Point Rock Buoy 2					Red nun.	Maintained from May 07 to Oct. 14.
16985	Stoney Point Reef Buoy 2					Red nun.	Maintained from May 07 to Oct. 14.
16990	BIRCH POINT LIGHT (C)	49 09 54 N 95 14 00 W	<b>FI W</b> 4s	23 7		Fluorescent red and white banded rectangular daymark on mast.	
16995	<i>Buffalo Point Marina Entrance Lighted Buoy (C)</i>	49 02 30 N 95 13 42 W	<b>Mo (A) W</b>			Red and white stripes.	
17000	BUFFALO POINT LIGHT (C)	49 00 00 N 95 13 54 W	<b>FI W</b> 4s	35 11	6	Red and white banded diamond daymark on mast.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MINNESOTA-ONTARIO BORDER LAKES</b>							
17005	Warroad Lighted Buoy 2		<b>FI R</b> 4s		2	Red.	Maintained from May 7 to Nov. 1.
17010	WARROAD JETTY LIGHT 4		<b>FI W</b> 4s	38 12	4	TR on post.	
17015	WARROAD RANGE FRONT LIGHT	48 54 00 N 95 18 24 W	<b>F G</b>	35 11		KRW on black skeleton tower.	Visible on range line.
17020	WARROAD RANGE REAR LIGHT 1,050 feet, 223° from front light.		<b>Oc W</b> 4s	60 18		KRW on skeleton tower.	Visible 15° each side of range line.
17025	GULL ROCK LIGHT	48 59 00 N 95 03 36 W	<b>FI W</b> 4s	30 9	6	NR on skeleton tower.	
17030	Long Point East Shoal Buoy 1					Green can.	
<b>Zipple Bay</b>							
17035	- Lighted Buoy 1		<b>FI G</b> 4s		4	Green.	Maintained from May 7 to Nov. 1.
17040	- LIGHT 2		<b>FI R</b> 2.5s	30 9	4	White cylindrical tower.	
17045	- LIGHT 3		<b>FI G</b> 2.5s	28 9	4	SG on post.	
17050	BRULE POINT LIGHT Marks rocks. (C)	49 07 54 N 94 20 06 W	<b>FI W</b> 4s	30 9	6	Red and white rectangular daymark with black square in center on post. 20	
17055	ROCKY POINT LIGHT (C)	48 57 30 N 94 32 18 W	<b>FI W</b> 4s	25 8	9	White daymark on post. 20	
17060	BURTON ISLAND LIGHT (C)	48 57 00 N 94 37 00 W	<b>FI W</b> 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)		<b>FI G</b> 4s			Green.	
17070	OAK POINT LIGHT	48 52 36 N 94 41 12 W	<b>FI W</b> 6s	34 10	7	NR on skeleton tower.	
<b>Four Mile Bay</b>							
17073	- Lighted Buoy 1	48 52 48 N 94 40 54 W	<b>FI G</b> 4s		4	Green.	
17075	- Buoy 2					Red nun.	
17077	- Buoy 4					Red nun.	
17079	- Buoy 6					Red nun.	
17079.1	- Buoy 7					Green can.	
17080	- Buoy 8					Red nun.	
17083	- Lighted Buoy 9	48 51 12 N 94 41 36 W	<b>FI G</b> 4s		4	Green.	
17085	Rainy River Buoy 10					Red nun.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MINNESOTA-ONTARIO BORDER LAKES</b>							
17087	WHEELER POINT LIGHT 12	48 50 24 N 94 41 12 W	<b>FI R</b> 4s	18 5	6	TR on skeleton tower.	
17089	Wheeler Point Buoy 14					Red nun.	
<b>Baudette Harbor</b>							
17095	- Buoy 1					Green can.	
17100	- Buoy 2					Red nun.	
17105	- Buoy 3					Green can.	
17110	- Buoy 4					Red nun.	
17115	- Buoy 5					Green can.	
17120	- Buoy 6					Red nun.	
<b>RAINY LAKE - INTERNATIONAL FALLS TO DRYWEED ISLAND (Chart 14998)</b>							
17125	FORT FRANCES RANIER BRIDGE LIGHT (C)	48 36 48 N 93 22 00 W	<b>FI G</b> 4s	28 9		On post. 16	
17140	- Buoy 2					Red nun.	
17145	- Buoy 3					Green can.	
17150	FRANSEN ISLAND LIGHT 2A	48 37 42 N 93 15 06 W	<b>FI R</b> 4s		4	TR on skeleton tower.	
17155	Red Sucker Island Buoy 4					Red nun.	
17160	Red Sucker Island Buoy 6					Red nun.	
17165	BALD ROCK LIGHT	48 37 24 N 93 10 54 W	<b>FI W</b> 4s	35 11	6	NB on skeleton tower.	
17170	- Buoy 7					Green can.	
<b>RAINY LAKE - DRYWEED ISLAND TO BIG ISLAND (Chart 14997)</b>							
17175	- Buoy 8					Red nun.	
17180	CAPSTAN REEF LIGHT (C)	48 38 06 N 93 03 00 W	<b>FI W</b> 4s	17 5	6	White structure.	Ra ref.
17185	Olson Reef Buoy 10OR					Red nun.	
<b>RAINY LAKE - INTERNATIONAL FALLS TO DRYWEED ISLAND (Chart 14998)</b>							
17190	ROBERTS ISLAND LIGHT 2	48 37 12 N 93 16 00 W	<b>FI R</b> 4s	27 8	6	TR on skeleton tower.	
<b>Canoe Channel</b>							
17195	- Daybeacon 4 Marks rocks.	48 37 00 N 93 15 36 W				TR on skeleton tower.	
17200	- Daybeacon 5 Marks rock.					SG on skeleton tower.	
17205	- Buoy 7 Marks rock.					Green can.	
17210	- Canoe Channel Daybeacon 8 Marks rock.					TR on skeleton tower.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MINNESOTA-ONTARIO BORDER LAKES</b>							
17215	- Daybeacon 10 Marks rock awash.					TR on skeleton tower.	
17220	- Daybeacon 12					TR on skeleton tower.	
17225	- Buoy 14					Red nun.	
17230	- Daybeacon 15 Marks submerged rock.					SG on skeleton tower.	
17235	- Buoy 16 Marks rock.					Red nun.	
17240	- LIGHT 17 Marks shoal.	48 36 24 N 93 10 54 W	<b>FI G 2.5s</b>		4	SG on skeleton tower. 21	
17245	Fraser Island Buoy 17A Marks south side of shoal.					Green can.	
17250	Big American Island Daybeacon 19	48 36 18 N 93 09 00 W				SG on pile.	
17252	- Buoy 20					Red nun.	
17255	South Shore Buoy 1					Green can.	
<b>RAINY LAKE - DRYWEED ISLAND TO BIG ISLAND (Chart 14997)</b>							
17260	South Shore Buoy 3					Green can.	
17265	South Shore Buoy 5					Green can.	
17267	South Shore Buoy 6					Red nun.	
17270	South Shore Buoy 7					Green can.	
17275	South Shore Buoy 8					Red nun.	
17277	South Shore Buoy 9					Green can.	
17280	South Shore Buoy 10					Red nun.	
17285	- Lighted Buoy 12		<b>FI R 4s</b>			Red.	
17290	- Buoy 13					Green can.	
17295	- Buoy 15					Green can.	
17300	- Buoy 16					Red nun.	
17305	MACKENZIE ISLAND LIGHT (C)	48 36 30 N 92 56 24 W	<b>FI W 4s</b>	26 8	6	White diamond daymark on post.	Visible from 290° to 110°.
<b>Brule Narrows</b>							
17310	- Buoy 18					Red nun.	
17315	- Buoy 19					Green can.	
17320	- Buoy 20					Red nun.	
17325	- Buoy 22					Red nun.	
17330	- Buoy 24					Red nun.	
17335	- Buoy 26					Red nun.	

*Buoys on the MINNESOTA-ONTARIO BORDER LAKES are maintained from May 7 to Oct. 14 unless otherwise noted.*

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MINNESOTA-ONTARIO BORDER LAKES</b>							
17340	BRULE ISLAND LIGHT (C)	48 35 48 N 92 54 00 W	FI W 4s	22 7	5	Lattice tower on concrete base.	
17345	- Buoy 28					Red nun.	
17350	- Buoy 29					Green can.	
17355	- Buoy 29A					Green can.	
17360	- Buoy 30					Red nun.	
17365	- Buoy 31					Green can.	
17367	Soldiers Point Daybeacon 30A					TR on skeleton tower.	
17370	- Lighted Buoy 32		FI R 4s			Red.	
17375	Rainy Lake Light 34	48 33 36 N 92 53 24 W	FI R 4s		3	TR on skeleton tower.	
17380	Hitchcock Bay Buoy 35	48 33 12 N 92 53 06 W				Green can.	
17385	Hitchcock Bay Buoy 35A					Green can.	
17390	Hitchcock Island Daybeacon 36	48 32 36 N 92 53 12 W				TR on skeleton tower.	
<b>RAINY LAKE - BIG ISLAND TO OAK POINT ISLAND (Chart 14996)</b>							
<b>Rainy Lake</b>							
17395	GULL ROCKS LIGHT Marks rock. (C)	48 33 48 N 92 46 36 W	FI W 4s	29 9		White rectangular daymark on mast.	
17400	- Buoy 37					Green can.	
17405	- Buoy 38					Red nun.	
17410	- Buoy 39					Green can.	
17415	- Buoy 41					Green can.	
17420	Surveyor's Island Light 43	48 31 06 N 92 37 42 W	FI G 4s			SG on skeleton tower.	
<b>Kettle Channel</b>							
17425	- Buoy 2					Red nun.	
17430	- Buoy 4					Red nun.	
17435	- Buoy 6					Red nun.	
17440	- Buoy 7					Green can.	
17445	- Buoy 8					Red nun.	
<b>EASTERN KABETOGAMA LAKE AND WESTERN NAMAKAN LAKE (Chart 14994)</b>							
<b>Namakan Lake</b>							
17450	Mica Island Daybeacon 2					TR on skeleton tower.	
17455	Mica Island Daybeacon 2A					TR on skeleton tower.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MINNESOTA-ONTARIO BORDER LAKES</b>							
17460	Squaw Narrows Daybeacon 4	48 29 00 N 92 42 06 W					TR on skeleton tower.
17465	Gagnon Island Buoy 5						Green can.
17470	Gagnon Point Daybeacon 6	48 28 36 N 92 43 06 W					TR on skeleton tower.
17475	Arrowhead Island Buoy 7						Green can.
17480	Alden Island Buoy 9						Green can.
17485	Bivo Island Daybeacon 11						SG on skeleton tower.
17490	Bivo Island Buoy 13						Green can.
17495	- Buoy 14						Red nun.
17500	- Buoy 16						Red nun.
17505	Kubel Island Buoy 18						Red nun.
17510	Sexton Island Buoy 20						Red nun.
17515	Cemetary Island Buoy 22						Red nun.
17520	Sweetnose Island Daybeacon 23						SG on skeleton tower.
17525	Sweetnose Island Buoy 24						Red nun
17530	- Daybeacon 26 Marks rock awash.						TR on post.
17535	- <i>Lighted Buoy 27</i>		<b>FIG 4s</b>		3		Green.
<b>Kabetogama Lake</b>							
17540	- Buoy 29						Green can.
17545	- Buoy 31						Green can.
17550	- Warning Daybeacon						NW on post.
17555	- Buoy 32						Red nun.
17560	Green Island Buoy 34						Red nun.
17565	Feedem Island Buoy 36						Red nun.
17570	Knox Island Daybeacon 37						SG on skeleton tower.
17575	- Junction Buoy						Green and red bands; can.
17580	- Buoy 38						Red nun.
17585	- Buoy 39						Green can.
17590	Pin Cherry Buoy 38A						Red nun.
<b>WESTERN KABETOGAMA LAKE (Chart 14995)</b>							
<b>Kabetogama Lake</b>							
17595	- Buoy 40						Red nun.
17600	- Buoy 42						Red nun.
17605	- Buoy 44						Red nun.

*Buoys on the MINNESOTA-ONTARIO BORDER LAKES are maintained from May 7 to Oct. 14 unless otherwise noted.*

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MINNESOTA-ONTARIO BORDER LAKES</b>							
<b>EASTERN KABETOGAMA LAKE AND WESTERN NAMAKAN LAKE (Chart 14994)</b>							
17610	Martin Island Buoy 1					Green can.	
<b>WESTERN KABETOGAMA LAKE (Chart 14995)</b>							
17615	Ram Island Buoy 4					Red nun.	
17620	VOYAGEURS NATIONAL PARK BREAKWATER LIGHT	48 26 30 N 93 01 48 W	<b>Q R</b>	15 5		TR on post.	Private aid.
<b>EASTERN KABETOGAMA LAKE AND WESTERN NAMAKAN LAKE (Chart 14994)</b>							
17625	Namakan Island Daybeacon N Marks bifurcation of Namakan and Kabetogama Lakes.	48 27 06 N 92 42 48 W				NR on skeleton tower.	
17630	Fox Island Daybeacon 4	48 26 12 N 92 40 00 W				TR on skeleton tower.	
17635	Randolph Island Buoy 6					Red nun.	
17640	Pike Island Daybeacon 8					TR on skeleton tower.	
<b>NAMAKAN LAKE - EASTERN PART (Chart 14993)</b>							
17645	YOUR ISLAND LIGHT 9		<b>FIG 6s</b>	25 8	5	SG on skeleton tower.	
17650	Your Island Buoy 10					Red nun.	
17655	Namakan Narrows Daybeacon 12					TR on skeleton tower.	
17660	Namakan Narrows Daybeacon 14					TR on skeleton tower.	
17665	Sand Point Buoy 16					Red nun.	
17670	Sand Point Buoy 18					Red nun.	
17675	Burnt Island Daybeacon 20					TR on skeleton tower.	
17680	Sand Point Buoy 22					Red nun.	
<b>SAND POINT LAKE TO LAC LA CROIX (Chart 14992)</b>							
17685	King Williams Narrows Buoy 24					Red nun.	
17690	King Williams Narrows Buoy 25					Green can.	
17695	King Williams Narrows Buoy 27					Green can.	
17700	Crane Lake Buoy 28					Red nun.	
17705	Crane Lake Buoy 29					Green can.	
17710	Indian Island Buoy 30					Red nun.	
17715	Bear Island Buoy 32					Red nun.	

*Buoys on the MINNESOTA-ONTARIO BORDER LAKES are maintained from May 7 to Oct. 14 unless otherwise noted.*

# Section 14

## Lake Michigan

### Straits of MacKinac to Holland Harbor

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>DE TOUR PASSAGE TO WAUGOSHANCE POINT (Chart 14881)</b>							
17720	ST. HELENA LIGHT	45 51 18 N 84 51 48 W	FI W 6s	71 22	6	White conical tower connected to dwelling. 71	
17725	St. Helena Southeast Shoal Buoy 1	45 50 59 N 84 51 17 W				Green can.	
17730	St. Helena Shoal Buoy SHS Marks south side of shoal.	45 51 47 N 84 55 25 W				Red and green bands; nun.	
<b>WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)</b>							
17735	Manitou Paymen Shoal Buoy 2 Marks southwest side of shoal.	45 57 30 N 85 04 36 W				Red nun.	
17740	<i>New Shoal Lighted Buoy 1</i>	45 49 16 N 85 05 17 W	FI G 4s		4	Green.	Maintained from Apr. 21 to Dec. 14.
17745	<i>New Shoal Lighted Bell Buoy 3</i>	45 48 54 N 85 08 00 W	FI G 2.5s		5	Green.	Replaced by can from Dec. 14 to Apr. 21.
17750	<b>White Shoal Light</b> Marks east side of shoal.	45 50 30 N 85 08 06 W	FI W 5s	125 38	17	Red and white spiral bands on conical crib.	RACON: K (- • -). HORN: 1 blast ev 30s (3s bl). Operates year round.
17755	White Shoal Buoy Marks southwest side of shoal.					Red and green bands; nun.	
17760	<i>Simmons Reef Lighted Bell Buoy 2</i> Marks south side of reef.	45 54 10 N 85 12 58 W	FI R 4s		4	Red.	Replaced by nun from Nov. 28 to Apr. 21.
<b>Grays Reef Passage Channel</b>							
17765	- <i>Lighted Buoy 5</i>	45 46 52 N 85 08 18 W	FI G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
17770	- <i>Lighted Bell Buoy 4</i>	45 46 56 N 85 09 04 W	FI R 4s		4	Red.	Replaced by nun from Dec. 14 to Apr. 21.
17775	<b>Grays Reef Light</b>	45 46 00 N 85 09 12 W	FI R 10s	82 25	15	Square tower.	RACON: G (- - •). Obscured from 080° to 170°. HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates year round.
17780	- <i>Lighted Buoy 7</i>	45 45 46 N 85 08 27 W	FI G 4s		4	Green.	Replaced by can from Dec. 14 to Apr. 21.
<b>WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)</b>							
17785	Ile Aux Galets Buoy 2 Marks east side of shoal.	45 40 59 N 85 08 07 W				Red nun.	
17790	Ile Aux Galets Buoy 9 Marks northwest side of shoal.	45 40 57 N 85 11 03 W				Green can.	
17795	<b>Ile Aux Galets Light</b>	45 40 36 N 85 10 18 W	FI W 6s	58 18	11	White octagonal tower.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
17800	Dahlia Shoal Buoy 11 Marks southwest side of shoal.	45 37 32 N 85 12 48 W				Green can.	
17805	Hog Island Reef Obstruction Buoy HI Marks east side of reef.	45 43 13 N 85 20 19 W				Red and green bands; nun.	
17810	<i>Beaver Island Shoal Northeast End Lighted Buoy 1</i>	45 45 49 N 85 29 41 W	<b>FI G</b> 4s		3	Green.	Replaced by can from May 7 to Nov. 14.
<b>St. James Harbor</b>							
17815	- Buoy 1	45 44 00 N 85 29 48 W				Green can.	
17820	- Buoy 2					Red nun.	
17825	- <i>Lighted Buoy 4</i>		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 14 to May 7.
17830	- Buoy 6					Red nun.	Maintained from May 7 to Nov. 14.
17835	- Buoy 7					Green can.	Maintained from May 7 to Nov. 14.
17840	- Buoy 8					Red nun.	Maintained from May 7 to Nov. 14.
17845	<b>St. James Light</b>	45 44 36 N 85 30 30 W	<b>Iso R</b> 6s	38 12	10	Cylindrical tower. 41	Light obscured from 127°30' to 199°30'.
<b>WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)</b>							
17850	<i>Stony Point Shoal Lighted Bell Buoy 1 Marks east side of shoal.</i>	45 43 12 N 85 28 48 W	<b>FI G</b> 6s		5	Green.	Replaced by can from Nov. 14 to May 7.
<b>GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)</b>							
<b>Harbor Springs</b>							
17855	<b>Little Traverse Light</b>	45 25 12 N 84 58 36 W	<b>FI G</b> 6s	72 22	10	White skeleton tower. 41	
17860	<i>Harbor Springs Special Anchorage Lighted Buoy B</i>	45 25 36 N 84 59 06 W	<b>FI W</b> 2s			White.	Maintained from Apr. 1 to Nov. 1. Private aid.
17865	STATE STREET PIER LIGHT	45 25 48 N 84 59 30 W	<b>F R</b>	38 12		On top of restaurant with white roof.	Maintained from Apr. 1 to Dec. 1. Private aid.
17870	SPRING STREET PIERHEAD LIGHT		<b>F R</b>	18 5		On dock.	Maintained from Apr. 1 to Dec. 1. Private aid.
<b>Ford Park Channel</b>							
<i>Buoys maintained from Apr. 1 to Nov. 1.</i>							
17875	- <i>Lighted Buoy 1</i>	45 25 36 N 84 58 54 W	<b>FI G</b> 2s			Green.	Private aid.
17880	- <i>Lighted Buoy 2</i>		<b>FI R</b> 2s			Red.	Private aid.
17885	- <i>Lighted Buoy 3</i>		<b>FI G</b> 2s			Green.	Private aid.
17890	- <i>Lighted Buoy 4</i>		<b>FI R</b> 2s			Red.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)</b>							
17895	WALSTROM MARINE LIGHT 1		<b>Q G</b>	8 2		On post.	Maintained from Jun. 1 to Oct. 1. Private aid.
17900	WALSTROM MARINE LIGHT 2		<b>Q R</b>	8 2		On post.	Maintained from Jun. 1 to Oct. 1. Private aid.
17905	<i>Harbor Springs Special Anchorage Lighted Buoy A</i>	45 25 36 N 84 58 24 W	<b>FI W</b> 2s			White.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>Petoskey</b>							
17915	- LIGHT		<b>FI R</b> 2.5s	44 13	5	White cylindrical tower.	
<b>LAKE CHARLEVOIX (Chart 14942)</b>							
<b>Charlevoix</b>							
17920	- North Pierhead Light	45 19 18 N 85 15 54 W	<b>FI G</b> 2.5s	20 6	10	SG on post.	
17925	- South Pierhead Light	45 19 13 N 85 15 53 W	<b>FI R</b> 4s	41 12	10	On white square tower.	HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
17930	Round Lake Special Anchorage Buoy A					Yellow can.	Maintained from Apr. 14 to Nov. 14.
17935	Round Lake Special Anchorage Buoy B					Yellow can.	Maintained from Apr. 14 to Nov. 14.
17940	Round Lake Special Anchorage Buoy C					Yellow can.	Maintained from Apr. 14 to Nov. 14.
17945	PINE RIVER LIGHT 3	45 18 54 N 85 14 42 W	<b>FI G</b> 2.5s	10 3	5	SG on skeleton tower.	
17950	<i>Pine River Channel Lighted Buoy 2</i>	45 18 53 N 85 14 41 W	<b>FI R</b> 4s		3	Red.	Maintained from Apr. 14 to Nov. 14.
17955	NORTHWEST MARINE YACHT BASIN LIGHT 4	45 18 24 N 85 14 42 W	<b>F R</b>	7 2		TR on pile.	Maintained from May 15 to Nov. 1. Private aid.
17960	NORTHWEST MARINE YACHT BASIN LIGHT 1	45 18 24 N 85 14 42 W	<b>F G</b>	6 2		SG on tripod.	Maintained from May 15 to Nov. 1. Private aid.
17965	NORTHWEST MARINE YACHT BASIN LIGHT 3	45 18 24 N 85 14 42 W	<b>F G</b>	7 2		SG on pile.	Maintained from May 15 to Nov. 1. Private aid.
<b>Belvedere Club Dock</b>							
<i>Lights maintained from May 1 to Nov. 15.</i>							
17970	- LIGHT A	45 18 54 N 85 15 00 W	<b>F R</b>	6 2		On pile.	Private aid.
17975	- LIGHT B		<b>F R</b>	6 2		On pile.	Private aid.
17980	- LIGHT C		<b>F R</b>	6 2		On pile.	Private aid.
17985	- LIGHT D		<b>F R</b>	6 2		On pile.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>Charlevoix Floating Breakwall</b>							
<i>Lights maintained from Apr. 1 to Nov. 1.</i>							
17990	- LIGHT	45 18 06 N 85 14 42 W	FI W 4s			On floating breakwall.	Private aid
17995	- LIGHT		FI W 4s			On floating breakwall.	Private aid.
18000	- LIGHT		FI W 4s			On floating breakwall.	Private aid.
18005	- LIGHT		FI W 4s			On floating breakwall.	Private aid.
<b>Charlevoix</b>							
18010	IRISH BOAT SHOP STOVER ROAD LIGHT 2		Oc R 3s	12 4		On post.	Private aid.
18015	IRISH BOAT SHOP STOVER ROAD LIGHT 1		F G	12 4		On post.	Private aid.
18020	IRISH BOAT SHOP FERRY AVENUE LIGHT 2		FI R 4s	4 1		On post.	Maintained from May 1 to Nov. 1. Private aid.
18025	IRISH BOAT SHOP FERRY AVENUE LIGHT 1		FI 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 42 N 85 14 36 W	FI 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		F R	8 2		TR on post.	Maintained from May 1 to Nov. 1. Private aid.
18040	OYSTER BAY MARINA LIGHT 2	45 18 54 N 85 12 18 W	F R	12 4		TR on pile.	Maintained from Apr. 1 to Dec. 1. Private aid.
18045	OYSTER BAY MARINA LIGHT 1		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 N 85 14 25 W				White with orange bands.	Maintained from May 10 to Oct. 30. Private aid.
<b>Haters Dock</b>							
<i>Lights maintained from May 15 to Oct. 15.</i>							
18050	- LIGHT 2	45 14 48 N 85 10 42 W	F R	7 2		On pile.	Private aid.
18055	- LIGHT 4		F R	7 2		On pile.	Private aid.
18060	- LIGHT 6		F R	9 3		On post.	Private aid.
18065	- LIGHT 8		F R	9 3		On post.	Private aid.
18067	Horse Point Lighted Buoy 3	45 13 50 N 85 03 43 W	FI 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
<b>LAKE MICHIGAN</b>							
<b>Boyne City</b>							
<b>Harborage Marina</b>							
<i>Lights maintained from Apr. 1 to Dec. 1.</i>							
18070	- WEST ENTRANCE LIGHT 2	45 12 36 N 85 01 24 W	<b>Q R</b>	10 3		TR on pile.	Private aid.
18075	- WEST ENTRANCE LIGHT 1		<b>Q G</b>	10 3		SG on post.	Private aid.
18080	- EAST BREAKWATER LIGHT	45 12 42 N 85 01 12 W	<b>Q W</b>	10 3		NW on post worded DANGER.	Private aid.
18085	- EAST ENTRANCE LIGHT 2		<b>Q R</b>	10 3		TR on post.	Private aid.
18090	- EAST ENTRANCE LIGHT 1		<b>Q G</b>	10 3		SG on post.	Private aid.
<b>GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)</b>							
18095	MEDUSA CHANNEL BREAKWATER LIGHT		<b>FI R 4s</b>	24 7		On gray pile.	Maintained from Apr. 15 to Dec. 15. Private aid.
18100	<i>South Point Lighted Bell Buoy 2</i> Marks shoal.	45 19 35 N 85 18 00 W	<b>FI R 4s</b>		5	Red.	Replaced by nun from Nov. 14 to Apr. 14.
<b>Grand Traverse Bay</b>							
18105	Fisherman Island Shoal Buoy 1 Marks northwest side of shoal.					Green can.	
18110	<b>Grand Traverse Light</b>	45 12 36 N 85 33 00 W	<b>FI W 6s</b>	50 15	24	NR on skeleton tower. 41	
18115	- <i>Shoal Lighted Bell Buoy 3</i> Marks northwest side of shoal.	45 08 08 N 85 26 12 W	<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 14 to Apr. 14.
18120	<i>Northport Point Lighted Bell Buoy 2</i> Marks south side of shoal.		<b>FI R 4s</b>		4	Red.	Replaced by nun from Nov. 14 to Apr. 14.
18125	Northport Bay Shoal Buoy 4 Marks southeast side of shoal.	45 07 45 N 85 33 59 W				Red nun.	
18130	Northport Bay Shoal Buoy 6 Marks southwest side of shoal.					Red nun.	
18135	NORTHPORT WEST LIGHT 2	45 07 48 N 85 36 42 W	<b>Q R</b>	18 5		TR on post.	Visible from 090° to 135°. Maintained from May 15 to Dec. 1. Private aid.
18140	NORTHPORT EAST LIGHT 1		<b>Q G</b>	18 5		SG on post.	Maintained from May 15 to Dec. 1. Private aid.
18145	MISSION POINT LIGHT	45 01 06 N 85 30 24 W	<b>FI W 6s</b>	41 12	6	White cylindrical tower. 25	
18150	Omena Buoy 2					Red nun.	Maintained from May 1 to Oct. 1. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18152	ARTHUR DUHAMEL MARINA LIGHT 1	45 01 54 N 85 35 48 W	<b>FI G</b> 2.5s	23 7			Private aid.
18153	ARTHUR DUHAMEL MARINA LIGHT 2		<b>FI R</b> 2.5s	23 7			Private aid.
<b>Elk Rapids</b>							
18155	- Buoy 1					Green can.	Maintained from May 15 to Oct. 15. Private aid.
18157	- Buoy 2					Red nun.	Maintained from May 15 to Oct. 15. Private aid.
18160	- BREAKWATER LIGHT 3	44 54 07 N 85 25 03 W	<b>FI G</b> 4s	16 5		SG on pile.	Maintained from May 15 to Oct. 15. Private aid.
18162	- BREAKWATER LIGHT 4	44 54 07 N 85 25 05 W	<b>FI R</b> 4s	14 4		TR on pile.	Maintained from May 15 to Oct. 15. Private aid.
18165	- Buoy 6					Red nun.	Maintained from May 15 to Oct. 15. Private aid.
18167	- Buoy 8					Red nun.	Maintained from May 15 to Oct. 15. Private aid.
18170	- RANGE FRONT LIGHT	44 54 00 N 85 25 00 W	<b>F W</b> <b>F R</b>	16 5		KWR on black post.	Maintained from May 15 to Oct. 15. Private aid.
18175	- RANGE REAR LIGHT 490 feet, 159.5° from front light.		<b>F W</b> <b>F R</b>	24 7		KWR on black post.	Maintained from May 15 to Oct. 15. Private aid.
<b>GRAND TRAVERSE BAY TO LITTLE TRAVERSE BAY (Chart 14913)</b>							
18180	EAST BAY HARBOR NORTH BREAKWATER LIGHT	44 46 03 N 85 30 24 W	<b>Q G</b>	8 2		On post.	Maintained from May 1 to Nov. 1. Private aid.
18185	EAST BAY HARBOR SOUTH BREAKWATER LIGHT	44 46 00 N 85 30 24 W	<b>FI R</b> 5s	8 2		On post.	Maintained from May 1 to Nov. 1. Private aid.
18186	WEST GRAND TRAVERSE BAY RESEARCH BUOY	45 11 02 N 85 27 09 W	<b>Q Y</b>			Orange Research Buoy w/mast.	Maintained from Apr 01 to Nov 30. Private aid.
18187	GRAND TRAVERSE BAY RESEARCH BUOY	45 04 00 N 87 24 23 W	<b>Q Y</b>			Yellow Research Buoy w/mast.	Maintained from Apr 01 to Nov 30. Private aid.
<b>Suttons Bay</b>							
18190	- YACHT CLUB BASIN LIGHT 2	44 59 18 N 85 38 30 W	<b>FI R</b> 2.5s	20 6		TR on post.	Maintained from May 15 to Oct. 15. Private aid.
18195	- YACHT BASIN OBSTRUCTION LIGHT		<b>FI W</b> 2.5s	20 6		NW on post worded DANGER.	Maintained from May 15 to Oct. 15. Private aid.
18200	- Yacht Club Entrance Buoy 3					Green can.	Maintained from May 15 to Oct. 15. Private aid.
18205	- Municipal Entrance Buoy 2S	44 58 36 N 85 38 36 W				Red nun.	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
<b>LAKE MICHIGAN</b>							
18210	- Municipal Entrance Buoy 3					Green can.	Maintained from May 1 to Nov. 1. Private aid.
18215	- Municipal Entrance Buoy 4					Red nun.	Maintained from May 1 to Nov. 1. Private aid.
18220	- MUNICIPAL DOCK LIGHT 6		<b>Q R</b>	17 5		TR on white post.	Maintained from May 1 to Nov. 30. Private aid.
18225	- MUNICIPAL DOCK LIGHT 7		<b>Q G</b>	17 5		SG on white post.	Maintained from May 1 to Nov. 1. Private aid.
18230	- Municipal Entrance Buoy 9					Green can.	Maintained from May 1 to Nov. 1. Private aid.
18235	- Buoy 1 Marks north side of shoal.					Green can.	
<b>West Arm</b>							
18240	- Lighted Bell Buoy 4 Marks shoal.		<b>FI R</b> 4s		4	Red.	Maintained from Apr. 14 to Nov. 14.
18245	- Buoy 6 Marks south side of shoal.					Red nun.	
18250	Tucker Point Shoal Buoy 1 Marks south side of shoal.					Green can.	
18255	Marion Island Shoal Buoy 2 Marks north side of shoal.					Red nun.	
18260	- Buoy 7 Marks wreck.					Green can.	
18265	- Lighted Buoy 8	44 47 33 N 85 37 24 W	<b>FI R</b> 4s		5	Red.	Replaced by nun from Nov. 14 to Apr. 14.
<b>Traverse City</b>							
18270	TRAVERSE CITY BREAKWATER LIGHT	44 47 18 N 85 37 54 W	<b>FI R</b> 2.5s	40 12	5	TR on tube. 30	
18275	TRAVERSE CITY WEST BREAKWATER LIGHT		<b>FI G</b> 4s	24 7	4	SG on white pile.	
18280	ZEPHYR CO. LIGHT	44 47 00 N 85 38 12 W	<b>F G</b>	20 6			Private aid.
18285	TOTAL PETRO. LIGHT	44 47 00 N 85 38 12 W	<b>F G</b>	20 6		On pile.	Operated only for the arrival and departure of tankers. Private aid.
18290	DUNCAN L. CLINCH YACHT HARBOR LIGHT 1	44 46 04 N 85 37 20 W	<b>FI G</b> 2.5s	22 7		SG on pile.	Maintained from May 1 to Nov 1. Private aid.
18291	DUNCAN L. CLINCH YACHT HARBOR LIGHT 2	44 46 06 N 85 37 19 W	<b>FI R</b> 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 54 N 85 36 36 W	<b>F R</b>	20 6		On black poles.	Private aid.
18300	GREAT LAKES MARITIME ACADEMY WEST PIER LIGHT	44 46 00 N 85 36 27 W	<b>FI G</b> 15s	13 4		On black tripod tower.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18305	GREAT LAKES MARITIME ACADEMY EAST PIER LIGHT	44 46 00 N 85 36 22 W	<b>Q R</b>	13 4		On pile.	Private aid.
<b>PLATTE BAY TO LELAND (Chart 14912)</b>							
18310	<i>NOAA Lighted Weather Buoy 45002</i>	45 19 53 N 86 25 25 W	<b>FI (4) Y 20s</b>			Yellow disc-shaped hull.	NOAA maintained from Apr. 1 to Nov. 1. Nun; winter marker.
18315	South Fox Island Shoals Buoy 3					Green can.	
18320	South Fox Island Shoals Buoy 4					Red nun.	
18325	South Fox Island Shoals Buoy 2					Red nun.	
18327	NORTH MANITOU ISLAND PIER LIGHT 2	45 07 24 N 85 58 18 W	<b>FI R 4s</b>	20 6		TR on post.	Maintained from May 15 to Oct. 30. Private aid.
18328	NORTH MANITOU ISLAND PIER LIGHT 4		<b>FI R 4s</b>	20 6		TR on post.	Maintained from May 15 to Oct. 30. Private aid.
18330	LELAND HARBOR LIGHT 1	45 01 24 N 85 45 48 W	<b>FI G 2.5s</b>	25 8	6	SG on post.	
18335	LELAND HARBOR LIGHT 2		<b>FI R 4s</b>	25 8	4	TR on post.	
18340	<b>North Manitou Shoal Light</b> Marks south side of shoal.	45 01 12 N 85 57 24 W	<b>FI R 15s</b>	79 24	23	White square structure on concrete base.	RACON: N(-•). HORN: 2 blasts ev 20s (2s bl- 2s si-2s bl-14s si). Operates year round.
18350	<i>Pyramid Point Shoal Lighted Buoy 5</i> Marks north side of shoal.	45 00 00 N 85 55 37 W	<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 14 to Apr. 14.
18355	North Manitou Shoal Southwest End Buoy 6					Red nun.	
18360	<i>South Manitou Island Shoal Lighted Gong Buoy 8</i>	44 57 26 N 86 10 03 W	<b>FI R 4s</b>		5	Red.	Replaced by nun from Nov. 14 to Apr. 14.
18365	<i>Sleeping Bear Lighted Bell Buoy 7</i>	44 54 05 N 86 09 57 W	<b>FI G 4s</b>		5	Green.	Replaced by can from Nov. 14 to Apr. 14.
18366	MANNING LIGHT	44 48 48 N 86 03 54 W	<b>FI W 4s</b>	38 12		White circular tower.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>STONY LAKE TO POINT BETSIE (Chart 14907)</b>							
18370	<b>Point Betsie Light</b>	44 41 29 N 86 15 19 W	<b>FI W 10s</b>	52 16	19	White, red roofs, cylindrical tower connected to dwelling.	
<b>Frankfort</b>							
18375	<b>- North Breakwater Light</b>	44 37 51 N 86 15 08 W	<b>F W</b>	72 22	16	White square pyramidal tower. 67	HORN: 1 blast ev 30s (3s bl). Operates from Apr. 1 to Nov. 1.
18385	<b>- SOUTH BREAKWATER LIGHT</b>		<b>FI R 4s</b>	46 14	5	White cylindrical tower with red band.	
18390	<b>- NORTH PIERHEAD LIGHT</b>	44 37 48 N 86 14 49 W	<b>FI G 2.5s</b>	31 9	6	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18395	- SOUTH PIERHEAD LIGHT	44 37 45 N 86 14 44 W	<b>FI R</b> 6s	30 9	6	TR on post.	
18405	ARCADIA HARBOR LIGHT 1	44 29 01 N 86 14 58 W	<b>FI G</b> 4s	30 9	4	SG on post.	
18410	ARCADIA HARBOR LIGHT 2	44 28 54 N 86 15 00 W	<b>FI R</b> 2.5s	30 9	5	White cylindrical tower with red band.	
<b>Portage Lake</b>							
18415	- NORTH PIERHEAD LIGHT	44 21 36 N 86 16 06 W	<b>FI G</b> 4s	32 10	5	White cylindrical tower with green band. 20	HORN: 1 blast ev 15s (2s bl). Operates from Apr. 1 to Nov. 1.
18420	- SOUTH PIERHEAD LIGHT		<b>FI R</b> 4s	27 8	6	TR on post.	
18425	- INNER LIGHT		<b>FI R</b> 6s	27 8	4	TR on post.	
18427	- <i>Lake Lighted Buoy 3 Marks shoal.</i>	44 21 37 N 86 14 37 W	<b>FI G</b> 4s		3	Green.	Maintained from Apr. 14 to Oct. 14.
<b>MANISTEE HARBOR (Chart 14938)</b>							
<b>Manistee</b>							
18450	- North Pierhead Light	44 15 07 N 86 20 49 W	<b>Iso W</b> 6s	55 17	15	White cylindrical tower. 39	HORN: 1 blast ev 15s (2s bl). Operates from Apr. 1 to Nov. 1.
18460	- SOUTH BREAKWATER LIGHT		<b>FI R</b> 4s	33 10	7	White cylindrical tower, with red band.	
18465	- SOUTH PIERHEAD LIGHT		<b>Iso R</b> 6s	29 9	4	TR on pole.	
<b>Harbor Village Marina</b>							
<i>Lights maintained from May 1 to Nov. 30.</i>							
18466	HARBOR VILLAGE MARINA ENTRANCE LIGHT 1	44 14 54 N 86 20 31 W	<b>F G</b>	7 2			Private aid.
18466.1	HARBOR VILLAGE MARINA ENTRANCE LIGHT 2	44 14 53 N 86 20 27 W	<b>F R</b>	7 2		TR on pile.	Private aid.
18466.2	HARBOR VILLAGE MARINA ENTRANCE LIGHT 3	44 14 55 N 86 20 28 W	<b>F G</b>	7 2			Private aid.
18466.3	HARBOR VILLAGE MARINA ENTRANCE LIGHT 4	44 14 55 N 86 20 27 W	<b>F R</b>	7 2			Private aid.
18466.4	HARBOR VILLAGE MARINA ENTRANCE LIGHT 6	44 14 56 N 86 20 26 W	<b>F R</b>	7 2			Private aid.
<b>Manistee Lake</b>							
18480	- <i>Lighted Buoy 2</i>	44 15 11 N 86 18 47 W	<b>FI R</b> 2.5s		3	Red.	Maintained from May 14 to Oct. 14.
18483	- Buoy 3	44 15 11 N 86 18 38 W				Green can.	
18490	- MANISTEE LAKE Obstruction Buoy A Marks submerged ruins.	44 14 48 N 86 18 36 W				Red nun.	Maintained from May 1 to Oct. 31. Private aid.
18495	- Buoy 5	44 15 05 N 86 18 28 W				Green can.	
18497	- Buoy 7					Green can.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18500	- Buoy 9	44 14 37 N 86 18 15 W				Green can.	
18505	- Buoy 10					Red nun.	
18510	- Buoy 12	44 14 24 N 86 18 15 W				Red nun.	
18515	- Buoy 13	44 14 15 N 86 18 09 W				Green can.	
18520	- Buoy 14					Red nun.	
<b>STONY LAKE TO POINT BETSIE (Chart 14907)</b>							
18525	<b>Big Sable Light</b>	44 03 30 N 86 30 54 W	<b>F W</b>	106 32	15	White conical tower with top and middle third black with dwelling attached. 107	Obscured from 238° to 346°.
<b>LUDINGTON HARBOR (Chart 14937)</b>							
<b>Ludington</b>							
18530	- NORTH BREAKWATER LIGHT	43 57 13 N 86 28 10 W	<b>Iso G 6s</b>	55 17	7	White square pyramidal tower.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from Apr. 1 to Oct. 1.
18540	- NORTH PIERHEAD LIGHT		<b>FI G 4s</b>	26 8	6	SG on white column.	
18545	- INNER BREAKWATER NORTH LIGHT	43 57 18 N 86 27 42 W	<b>Q R</b>	16 5		On steel pile.	Private aid. Maintained from Apr. 1 to Nov. 15.
18550	- INNER BREAKWATER SOUTH LIGHT	43 57 12 N 86 27 42 W	<b>Q W</b>	16 5		On steel pile.	Maintained from Apr. 1 to Nov. 15. Private aid.
18555	- SOUTH BREAKWATER LIGHT		<b>FI R 2.5s</b>	30 9	6	White cylindrical tower with red band.	
18560	- SOUTH PIERHEAD LIGHT 6	43 57 06 N 86 27 36 W	<b>FI R 4s</b>	30 9	5	TR on post.	
<b>Pere Marquette Lake</b>							
18565	- Lighted Buoy 1		<b>FI G 2.5s</b>		4	Green.	Replaced by can from Oct. 14 to May 14.
18570	- Buoy 3					Green can.	
18575	- Buoy 5					Green can.	
18580	- West Buoy 2 Marks submerged piling.					Red nun.	
<b>STONY LAKE TO POINT BETSIE (Chart 14907)</b>							
<b>Consumer Power Company</b>							
<i>Buoys maintained from Apr. 15 to Oct. 15. Buoys are located 230 feet apart, 100 feet off breakwall and lighted buoys mark submerged net.</i>							
18585	- Lighted Obstruction Buoy A		<b>Q W</b>			White with orange diamond.	Private aid.
18590	- Lighted Obstruction Buoy B		<b>Q W</b>			White with orange diamond.	Private aid.
18595	- Lighted Obstruction Buoy C		<b>Q W</b>			White with orange diamond.	Private aid.
18600	- Lighted Obstruction Buoy D		<b>Q W</b>			White with orange diamond.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18605	- Lighted Obstruction Buoy E		<b>Q W</b>			White with orange diamond.	Private aid.
18610	- Lighted Obstruction Buoy F		<b>Q W</b>			White with orange diamond.	Private aid.
18615	- Lighted Obstruction Buoy G		<b>Q W</b>			White with orange diamond.	Private aid.
<b>Pentwater</b>							
18620	- NORTH PIERHEAD LIGHT 3	43 46 56 N 86 26 37 W	<b>FI G</b> 2.5s	43 <b>13</b>	9	White cylindrical tower with green band.	HORN: 1 blast ev 30s (3s bl). Operates from Apr. to Nov.
18630	- SOUTH PIERHEAD LIGHT 4	43 46 54 N 86 26 36 W	<b>FI R</b> 4s	48 <b>15</b>	4	TR on red skeleton tower. 34	
18645	<b>Little Sable Light</b>	43 39 09 N 86 32 24 W	<b>FI W</b> 6s	108 <b>33</b>	17	Red brick conical tower. 107	
<b>WHITE LAKE (Chart 14935)</b>							
<b>White Lake</b>							
18650	- NORTH PIERHEAD LIGHT 1	43 22 30 N 86 25 42 W	<b>FI G</b> 6s	25 <b>8</b>	8	White column with green band.	
18655	- SOUTH PIERHEAD LIGHT 2		<b>FI R</b> 4s	33 <b>10</b>	5	TR on post.	
18660	- PIERHEAD INNER LIGHT 4		<b>FI R</b> 2.5s	30 <b>9</b>	4	TR on post.	
18665	- Lighted Buoy 5	43 22 30 N 86 25 10 W	<b>FI G</b> 2.5s		3	Green.	Maintained from Apr. 21 to Nov. 14.
18670	- Lighted Buoy 7	43 22 30 N 86 25 06 W	<b>FI G</b> 4s		3	Green.	Maintained from Apr. 21 to Nov. 14.
18675	- Lighted Buoy 9	43 22 36 N 86 23 48 W	<b>FI G</b> 2.5s		3	Green.	Maintained from Apr. 21 to Nov. 14.
18680	- Lighted Buoy 11	43 23 04 N 86 22 42 W	<b>FI G</b> 6s		3	Green.	Maintained from Apr. 21 to Nov. 14.
18685	- Lighted Buoy 12	43 23 30 N 86 22 00 W	<b>FI R</b> 4s		3	Red.	Maintained from Apr. 21 to Nov. 14.
18690	- LIGHT 14	43 24 06 N 86 21 18 W	<b>FI R</b> 2.5s	12 <b>4</b>	4	TR on pile.	
18695	- LIGHT 15	43 24 12 N 86 21 18 W	<b>FI G</b> 4s	12 <b>4</b>	4	SG on pile.	
<b>MUSKEGON LAKE (Chart 14934)</b>							
<b>Muskegon</b>							
18705	- SOUTH BREAKWATER LIGHT	43 13 27 N 86 20 49 W	<b>Iso R</b> 6s	70 <b>21</b>	9	Pyramidal tower.	Maintained from May 1 to Nov. 1. HORN: 2 blasts ev 20s (2s bl- 2s si-2s bl-14s si).
18710	- <b>South Pierhead Light</b>	43 13 36 N 86 20 29 W	<b>FI R</b> 4s	50 <b>15</b>	10	Conical tower. 48	
18720	- NORTH BREAKWATER LIGHT		<b>FI G</b> 4s	34 <b>10</b>	4	White cylindrical tower with green band.	
18725	- NORTH PIER OUTER LIGHT	43 13 39 N 86 20 31 W	<b>FI G</b> 6s	30 <b>9</b>	4	SG on post.	
18730	- NORTH PIER INNER LIGHT	43 14 00 N 86 19 42 W	<b>FI G</b> 4s	30 <b>9</b>	4	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18735	- LAKE LIGHT	43 13 54 N 86 19 38 W	<b>FI W</b> 2.5s	28 9	6	White cylindrical tower with red band.	
18740	HARBOUR TOWNE ENTRANCE LIGHT 1	43 13 42 N 86 19 30 W	<b>F G</b>	8 2		On tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
18745	HARBOUR TOWNE ENTRANCE LIGHT 2	43 13 42 N 86 19 30 W	<b>F R</b>	8 2		On tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
18750	- <i>Lighted Buoy 3</i>		<b>FI G</b> 2.5s			Green.	Maintained from Apr. 1 to Nov. 21.
18760	LAKE MUSKEGON RANGE FRONT LIGHT	43 13 00 N 86 18 30 W	<b>F R</b>	26 8		KBW on pile.	Private aid.
18765	LAKE MUSKEGON RANGE REAR LIGHT 200 feet, 174° from front light.		<b>F R</b>	29 9		KBW on pile.	Private aid.
18770	BEAR LAKE ENTRANCE WEST LIGHT	43 14 21 N 86 17 52 W	<b>FI G</b> 4s	8 2		SB on piling.	Maintained from Apr. 1 to Nov. 1. Private aid.
18775	BEAR LAKE ENTRANCE EAST LIGHT		<b>F R</b>	8 2		TR on pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
18780	BEAR LAKE CHANNEL LIGHT 1	43 14 42 N 86 17 45 W	<b>Q G</b>	6 2		SG on pile.	Maintained from Apr 1 to Nov. 1. Private aid.
<b>Great Lakes Marina Entrance</b>							
<i>Lights maintained from Apr. 15 to Dec. 12.</i>							
18785	- LIGHT 1	43 13 18 N 86 17 42 W	<b>Q G</b>			SG on pile.	Private aid.
18790	- LIGHT 2		<b>Q R</b>			TR on pile.	Private aid.
18795	- LIGHT 3		<b>FI G</b> 2.5s			SG on pile.	Private aid.
18800	- LIGHT 4		<b>FI R</b> 2.5s			TR on pile.	Private aid.
18805	- LIGHT 5		<b>FI G</b> 2.5s			SG on pile.	Private aid.
18810	- LIGHT 6		<b>FI R</b> 2.5s			TR on pile.	Private aid.
18811	Great Lakes Marina Buoy 7	43 13 12 N 86 17 37 W				Green can.	Private aid.
18812	Great Lakes Marina Buoy 9	43 13 11 N 86 17 35 W				Green can.	Private aid.
18813	Great Lakes Marina Buoy 11	43 13 11 N 86 17 32 W				Green can.	Private aid.
18815	BANK POINT LIGHT Marks south side of shoal.		<b>FI G</b> 4s	24 7	5	SG on post on concrete pier.	
<b>Lakeshore Yacht Club Channel</b>							
<i>Aids maintained from Apr. 15 to Oct. 15.</i>							
18820	- <i>Lighted Buoy 1</i>	43 13 48 N 86 16 46 W	<b>FI G</b> 4s			Green.	Private aid.
18825	- <i>Lighted Buoy 2</i>	43 13 47 N 86 16 48 W	<b>FI R</b> 4s			Red.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18830	- Buoy 3	43 13 47 N 86 16 43 W				Green can.	Private aid.
18835	- Buoy 4	43 13 46 N 86 16 44 W				Red nun.	Private aid.
18840	- Buoy 5					Green can.	Private aid.
18845	- Buoy 6					Red nun.	Private aid.
18850	- Buoy 7					Green can.	Private aid.
18855	- Buoy 8					Red nun.	Private aid.
18870	- Light 10		<b>F R</b>	12 4		TR on post.	Private aid.
18871	- LIGHT 11	43 13 42 N 86 16 30 W	<b>F G</b>	12 4		SG on post.	Private aid.
18875	- HARTSHORN LIGHT Marks north side of shoal.		<b>F I R</b> 4s	15 5	3	TR on column.	
<b>Hartshorn Municipal Marina</b>							
<i>Aids maintained from Apr. 15 to Nov. 1.</i>							
18881	- Lighted Buoy 1	43 14 12 N 86 16 12 W	<b>F I G</b> 4s			Green.	Private aid.
18882	- Lighted Buoy 2		<b>F I R</b> 4s			Red.	Private aid.
18883	- Buoy 3					Green can.	Private aid.
18884	- Lighted Buoy 4		<b>F I R</b> 2s			Red.	Private aid.
18885	- LIGHT 5	43 14 12 N 86 16 12 W	<b>Iso G</b> 20s	15 5		On tripod.	Private aid.
18890	- LIGHT 6		<b>Iso R</b> 20s	15 5		On tripod.	Private aid.
18895	- BASIN LIGHT	43 13 48 N 86 15 54 W	<b>F R</b>	18 5		On pole.	Private aid.
18900	Verplank Channel Buoy 2	43 14 42 N 86 15 12 W				Sphere.	Private aid.
18905	Verplank Channel Buoy 4					Sphere.	Private aid.
18910	CONSUMERS POWER COMPANY LIGHT 1	43 15 05 N 86 14 54 W	<b>F G</b>				Maintained from Apr. 1 to Nov. 30. Private aid.
18915	CONSUMERS POWER COMPANY LIGHT 3	43 15 07 N 86 14 51 W	<b>F G</b>				Maintained from Apr. 1 to Nov. 30. Private aid.
18920	CONSUMERS POWER COMPANY LIGHT 5	43 15 13 N 86 14 37 W	<b>F G</b>				Maintained from Apr. 1 to Nov. 30. Private aid.
<b>Conservation Club Channel</b>							
<i>Aids maintained from Apr. 1 to Nov. 1.</i>							
18925	- Lighted Buoy 1	43 15 28 N 86 15 23 W	<b>F I G</b> 2s			Green.	Private aid.
18930	- Lighted Buoy 2	43 15 27 N 86 15 22 W	<b>F I R</b> 2s			Red.	Private aid.
18935	- Lighted Buoy 3	43 15 30 N 86 15 21 W	<b>Q G</b>			Green.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
18936	Conservation Club Channel Buoy 3A	43 15 30 N 86 15 21 W				Green can.	Private aid.
18940	- Buoy 4					Red nun.	Private aid.
18945	Conservation Club Channel Dayboard 5	43 15 34 N 86 15 15 W				SG on post.	Private aid.
18950	Conservation Club Channel Buoy 6	43 15 31 N 86 15 17 W				Red.	Private aid.
<b>GRAND HAVEN AND GRAND RIVER (Chart 14933)</b>							
<b>Grand Haven</b>							
18965	- <b>South Pierhead Entrance Light</b>	43 03 25 N 86 15 22 W	<b>FI R</b> 10s	42 13	15	Red fog signal building. 36	Maintained from Apr. 1 to Nov. 1. HORN: 2 blasts ev 30s (2s bl- 2s si-2s bl-24s si).
18975	- SOUTH PIERHEAD INNER LIGHT		<b>Oc R</b> 4s	52 16	4	Red cylindrical tower. 51	
18980	- NORTH PIERHEAD LIGHT 1		<b>FI G</b> 4s	36 11	6	White cylindrical tower with green band. 32	
<b>Grand River</b>							
<i>Unlighted buoys maintained from April 1 to Nov. 1.</i>							
18995	- <i>Lighted Buoy 3</i>	43 03 45 N 86 14 17 W	<b>FI G</b> 2.5s		3	Green.	Replaced by can from Nov. 28 to April 1.
19000	- <i>Lighted Buoy 3A</i>		<b>FI G</b> 4s		3	Green.	Replaced by can from Nov. 28 to April 1.
19005	- <i>Lighted Buoy 4</i>		<b>FI R</b> 4s		3	Red.	Replaced by nun from Nov. 28 to April 1.
19010	- Buoy 6	43 04 27 N 86 14 06 W					Maintained from May 14 to Nov. 1.
19015	- Buoy 7	43 04 35 N 86 14 01 W				Green can.	Maintained from Apr. 1 to Nov. 1.
19020	- <i>Lighted Buoy 8</i>		<b>FI R</b> 2.5s		3	Red.	Replaced by nun from Nov. 28 to April 1.
19025	- Buoy 10					Red nun.	
19030	- Turning Basin Buoy 12	43 04 35 N 86 13 24 W				Red nun.	Maintained from Apr. 1 to Nov. 1.
19035	- <i>Lighted Buoy 14</i>		<b>FI R</b> 2.5s		3	Red.	Maintained from April 1 to Nov. 1.
19040	SPRING LAKE OBSTUCTION LIGHT	43 04 38 N 86 12 50 W	<b>FI W</b> 2.5s	15 5	3	3 NW on pile worded DANGER.	
19045	- <i>Lighted Buoy 14A</i>		<b>FI R</b> 6s		3	Red.	Maintained from April 1 to Nov. 1.
19050	- <i>Lighted Buoy 15</i>		<b>FI G</b> 4s		3	Green.	Maintained from April 1 to Nov. 1.
19051	- <i>Lighted Buoy 15A</i>	43 04 19 N 86 12 33 W	<b>FI G</b> 6s		3	Green.	Maintained from April 1 to Nov. 1.
19055	- <i>Lighted Buoy 16</i>		<b>FI R</b> 4s		3	Red.	Maintained from April 1 to Nov. 1.
19060	- <i>Lighted Buoy 16A</i>		<b>FI R</b> 6s		3	Red.	Maintained from April 1 to Nov. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<i>Unlighted buoys maintained from May 1 to Nov. 1.</i>							
19065	- Buoy 17					Green can.	
19070	- Buoy 19					Green can.	
19075	- Buoy 20					Red nun.	
19080	- Buoy 21					Green can.	
19085	- Buoy 22					Red nun.	
19090	- Buoy 23					Green can.	
19095	- Buoy 24					Red nun.	
19100	- Buoy 26					Red nun.	
19105	- Buoy 28					Red nun.	
19110	- Buoy 29					Green can.	
19115	- Buoy 30	43 02 41 N 86 09 40 W				Red nun.	
19120	- Buoy 31					Green can.	
19125	- Buoy 33					Green can.	
19130	- Buoy 35					Green can.	
19135	- Buoy 37					Green can.	
19140	- Buoy 39					Green can.	
19145	- Buoy 40					Red nun.	
19150	- Buoy 42	43 02 10 N 86 08 33 W				Red nun.	
19155	- Buoy 44					Red nun.	
19160	- Buoy 46					Red nun.	
19165	- Buoy 48					Red nun.	
19170	- Buoy 50					Red nun.	
19175	- Buoy 51					Green can.	
19180	- Buoy 52	43 02 23 N 86 06 38 W				Red nun.	
19185	- Buoy 54					Red nun.	
19190	- Buoy 55					Green can.	
19195	- Buoy 57					Green can.	
19200	- Buoy 59					Green can.	
19205	- Buoy 60					Red nun.	
19210	- Buoy 62					Red nun.	
19215	- Buoy 64					Red nun.	
19220	- Buoy 66					Red nun.	
19225	- Buoy 67					Green can.	
19230	- Buoy 68					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
19235	- Buoy 69					Green can.	
19240	- Buoy 71					Green can.	
19245	- Buoy 72					Red nun.	
19250	- Buoy 74					Red nun.	
19255	- Buoy 76					Red nun.	
19260	- Buoy 78					Red nun.	
19265	- Warning Daybeacon	43 01 00 N 86 01 12 W				NW on pile worded DANGER - END OF DREDGED CHANNEL.	
<b>SOUTH HAVEN TO STONEY LAKE (Chart 14906)</b>							
<b>Port Sheldon</b>							
19270	- BREAKWATER NORTH LIGHT		FI G 4s	14 4		Column.	Maintained from Apr. 1 to Oct. 31. Private aid.
19275	- BREAKWATER SOUTH LIGHT	42 54 00 N 86 13 06 W	FI R 4s	14 4		Column.	Maintained from Apr. 1 to Oct. 31. Private aid.
<b>HOLLAND HARBOR (Chart 14932)</b>							
<b>Holland Harbor</b>							
19280	- NORTH BREAKWATER LIGHT	42 46 24 N 86 13 00 W	FI G 6s	27 8	7	White cylindrical tower with green band. 20	
19285	- SOUTH BREAKWATER LIGHT	42 46 21 N 86 12 57 W	FI R 4s	27 8	5	White cylindrical tower with red band. 20	HORN: 1 blast ev 30s (3s blast). Operates from Apr. 1 to Nov. 1. Operates by keying the mike 5 times on VHF-FM Ch. 79.
19290	- NORTH PIERHEAD LIGHT		FI G 4s	25 8	4	SG on cylindrical tower.	
19295	- South Pierhead Light	42 46 22 N 86 12 45 W	AI WR 10s	52 16	W 19 R 17	On square tower on building. 45	
<b>Lake Macatawa</b>							
19305	- LIGHT		FI R 2.5s	24 7	4	TR on column.	Not visible westward.
19310	- Lighted Buoy 1	42 46 18 N 86 12 04 W	FI G 2.5s		4	Green.	Replaced by can from Nov. 7 to Apr. 14.
19320	Big Bay Lighted Buoy 1		FI G 6s		3	Green.	Maintained from Apr. 14 to Nov. 14.
19325	Big Bay Lighted Buoy 2		FI R 6s		3	Red.	Maintained from Apr. 14 to Nov. 14.
19330	Big Bay Buoy 3					Green can.	Maintained from Apr. 14 to Nov. 14.
19335	MIDDLE GROUND LIGHT 3 Marks southeast side of shoal.		FI G 4s	23 7	4	SG on column on cylindrical base. 18	
19340	DRAKE POINT LIGHT 4 Marks north side of shoal.		FI R 4s	23 7	4	TR on column on cylindrical base. 18	
19345	- Buoy 5	42 46 45 N 86 09 53 W				Green can.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
19350	- Lighted Buoy 6		<b>FI R</b> 6s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
<b>Vanden Bos Channel</b>							
<i>Aids maintained from May 1 to Nov. 1.</i>							
19355	- Lighted Buoy 1	42 46 54 N 86 10 12 W	<b>FI G</b> 3s			Green.	Private aid.
19360	- Lighted Buoy 2		<b>FI R</b> 3s			Red.	Private aid.
19365	- Lighted Buoy 3		<b>FI G</b> 3s			Green.	Private aid.
19370	- Lighted Buoy 4		<b>FI R</b> 3s			Red.	Private aid.
<b>Lake Macatawa</b>							
19375	POINT SUPERIOR LIGHT 7		<b>FI G</b> 4s	23 7	4	SG on column on cylindrical base. 18	
19380	- Buoy 9	42 46 41 N 86 09 08 W				Green can.	
19385	- Lighted Buoy 10		<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
19390	- Buoy 11	42 46 43 N 86 08 57 W				Green can.	
19393	- Buoy 12					Red nun.	
19395	- Buoy 13					Green can.	
19400	- Lighted Buoy 14		<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
19405	- Buoy 15					Green can.	
19410	- Lighted Buoy 16		<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Nov. 7 to Apr. 14.
19415	- Buoy 17	42 47 27 N 86 07 18 W				Green can.	
19420	Lake Macatawa Lighted Buoy 19	42 47 35 N 86 07 11 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 7 to Apr. 14.
19425	- Buoy 21					Green can.	
19430	- Buoy 23					Green can.	
19435	- Buoy 25					Green can.	
19440	- Buoy 26					Red nun.	



# Section 15

## Lake Michigan

### Holland Harbor to Port Washington

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>SOUTH HAVEN TO STONY LAKE (Chart 14906)</b>							
<b>Saugatuck</b>							
19445	- SOUTH PIERHEAD LIGHT	42 40 36 N 86 12 59 W	<b>FI R</b> 4s	30 9	7	Cylindrical structure with red band.	HORN: 1 blast ev 15s (2s bl). Maintained from Apr. 15 to Nov. 1. Operates by keying microphone 5 times on VHF channel 79.
19450	- NORTH PIERHEAD LIGHT		<b>FI G</b> 4s	30 9	5	Cylindrical structure with green band.	
<b>Kalamazoo River</b>							
<i>Buoys maintained from May 14 to Nov. 7.</i>							
19455	- Buoy 2					Red nun.	
19460	- Buoy 4					Red nun.	
19465	- Buoy 5					Green can.	
19470	- Buoy 6					Red nun.	
19475	- Buoy 8					Red nun.	
19480	- Buoy 9					Green can.	
19485	- Buoy 11	42 39 43 N 86 12 18 W				Green can.	
19490	- Buoy 12					Red nun.	
19495	- Buoy 14					Red nun.	
19500	Saugatuck Old Channel Obstruction Buoy S	42 40 00 N 86 13 08 W				Yellow can.	Maintained from May 28 to Sep. 7.
<b>South Haven</b>							
19505	- <b>South Pierhead Light</b>	42 24 06 N 86 17 18 W	<b>F R</b>	37 11	12	Red conical tower. 35	Maintained from May 1 to Nov. 1. HORN: 2 blast ev 30s (2s bl-2s si-2s bl-24s si).
19510	- NORTH PIER LIGHT		<b>FI G</b> 4s	28 9	6	SG on pole.	
<b>Palisades Nuclear Security Zone</b>							
<i>Buoys maintained from Apr. 15 to Nov. 1.</i>							
19511	- No Entry Buoy A	42 19 12 N 86 19 21 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.1	- No Entry Buoy B	42 19 17 N 86 19 37 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.2	- No Entry Buoy C	42 19 22 N 86 19 54 W				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
<b>LAKE MICHIGAN</b>							
19511.3	- No Entry Buoy D	42 19 33 N 86 19 48 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.4	- No Entry Buoy E	42 19 44 N 86 19 42 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.5	- No Entry Buoy F	42 19 35 N 86 19 07 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19511.6	- No Entry Buoy G	42 19 35 N 86 19 07 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
<b>ST. JOSEPH AND BENTON HARBOR (Chart 14930)</b>							
<b>St. Joseph</b>							
19515	- North Pierhead Light	42 07 00 N 86 29 42 W	Iso W 6s	31 9	15	White cylindrical tower. 30	Horn maintained from Apr. 1 to Nov. 1. Horn: 1 blast ev 30s (3s bl). HORN: 1 blast ev 30s (3s bl).
19520	- North Pier Inner Light		F W	53 16	16	Octagonal tower. 53	
19525	- SOUTH PIERHEAD LIGHT		Iso R 6s	35 11	6	TR on post.	
19527	ST JOSEPH COAST GUARD LIGHT	42 06 48 N 86 29 04 W	FI Y 4s	26 8	3		
19530	- River Buoy 3					Green can.	Maintained from Apr. 28 to Nov. 1.
19531	- River Buoy 4					Red nun.	Maintained from Apr. 28 to Nov. 1.
19531.1	- River Buoy 4A					Red nun.	Maintained from Apr. 28 to Nov. 1.
19532	- River Buoy 6					Red nun.	Maintained from Apr. 28 to Nov. 1.
19533	- River Buoy 8					Red nun.	Maintained from Apr. 28 to Nov. 1.
19533.1	- River Buoy 10					Red nun.	Maintained from Apr. 28 to Nov. 1.
19533.2	- River Buoy 12					Red nun.	Maintained from Apr. 28 to Nov. 1.
19533.3	- River Buoy 13					Green Can.	Maintained from Apr. 28 to Nov. 1.
<b>Donald S. Cook Nuclear Security Zone</b>							
Buoys maintained from Apr. 1 to Nov. 15							
19534	- No Entry Buoy A	41 58 32 N 86 34 19 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19534.1	- No Entry Buoy B	41 58 35 N 86 34 35 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19534.2	- No Entry Buoy C	41 58 40 N 86 34 34 W				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
<b>LAKE MICHIGAN</b>							
19534.3	- No Entry Buoy D	41 58 46 N 86 34 32 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
19534.4	- No Entry Buoy E	41 58 43 N 86 34 15 W				White can with orange bands and exclusion symbol worded NO ENTRY.	Private aid.
<b>WAUKEGAN TO SOUTH HAVEN (Chart 14905)</b>							
<b>New Buffalo</b>							
19535	- HARBOR LIGHT 1	41 48 06 N 86 45 00 W	<b>FI G</b> 2.5s	25 8	6	SG on column.	
19540	- HARBOR LIGHT 2		<b>FI R</b> 2.5s	25 8	6	TR on column.	
19541	- Shoal Buoy A	41 48 06 N 86 45 00 W				White can with orange bands and diamond.	Maintained from Mar. 15 to Nov. 15. Private aid.
19542	- Shoal Buoy B					White can with orange bands and diamond.	Maintained from Mar. 15 to Nov. 15. Private aid.
19543	- Shoal Buoy C					White can with orange bands and diamond.	Maintained from Mar. 15 to Nov. 15. Private aid.
<b>Michigan City</b>							
19545	- East Pierhead Light	41 43 42 N 86 54 42 W	<b>Oc W</b> 4s	55 17	12	White octagonal tower with red roof attached to fog signal building. 49	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si).
19555	- BREAKWATER LIGHT		<b>FI R</b> 4s	36 11	6	TR on pyramidal structure with red band. 32	
19560	- BREAKWATER SOUTH LIGHT		<b>FI Y</b> 2.5s	33 10	4	NY on pyramidal structure.	
19565	- WEST PIERHEAD LIGHT		<b>FI R</b> 6s	41 12	4	TR on tower.	
19570	- OUTER BASIN LIGHT	41 43 32 N 86 54 31 W	<b>FI G</b> 4s	25 8	4	SG on pile.	
<b>Burns Harbor</b>							
19575	BAILEYTOWN WATER INTAKE CRIB LIGHT	41 38 54 N 87 07 24 W	<b>Q W</b>			Skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
19580	- EAST LIGHT		<b>FI W</b> 2s	22 7		On pile.	Private aid.
19585	- NORTH LIGHT 2	41 38 56 N 87 08 46 W	<b>FI R</b> 2.5s	36 11	6	TR on pile.	
19590	- SOUTH LIGHT 3	41 38 47 N 87 08 49 W	<b>FI G</b> 4s	47 14	9	White cylindrical tower with green band.	
19595	BURNS WATERWAY JETTY NORTH LIGHT 1	41 38 03 N 87 10 42 W	<b>FI G</b> 6s	27 8	7	White cylindrical tower with green band.	
19600	BURNS WATERWAY WEST PIER LIGHT 2		<b>FI R</b> 2.5s	27 8	5	TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>CHICAGO LAKE FRONT (Chart 14927)</b>							
<b>Gary</b>							
19605	- BULKHEAD LIGHT	41 37 24 N 87 17 18 W	<b>FI R</b> 4s	20 6		On cylindrical tower.	Private aid.
19610	- BREAKWATER LIGHT	41 37 48 N 87 19 12 W	<b>FI (3) R</b> 40s 2s fl 8s ec. 2s fl 8s ec. 2s fl 18s ec.	40 12		On cylindrical tower.	Standby light. Private aid. HORN: 1 blast ev 30s (2s bl).
19615	- EAST PIERHEAD LIGHT	41 37 30 N 87 19 30 W	<b>F W</b>	30 9		On post.	Operates during navigation season only. Private aid.
19620	- WEST PIERHEAD LIGHT		<b>F R</b>	25 8		On post.	Operates during navigation season only. Private aid.
19625	<i>Indiana Shoal Lighted Gong Buoy 2</i> Marks northeast side of shoals.	41 43 26 N 87 20 53 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 14 to Dec. 1.
<b>Buffington Harbor</b>							
19630	- BREAKWATER LIGHT	41 38 48 N 87 24 36 W	<b>FI R</b> 4s	48 15		Conical tower.	RACON: M(- -). Private aid.
19636	- INNER BREAKWATER EAST LIGHT 2	41 38 36 N 87 24 54 W	<b>FI R</b> 2.5s	24 7		On post.	Private aid.
19637	- INNER BREAKWATER WEST LIGHT 1	41 38 30 N 87 24 54 W	<b>Q G</b>	24 7		On post.	Private aid.
<b>CALUMET AND INDIANA HARBORS (Chart 14929)</b>							
<b>City of East Chicago, Indiana</b>							
19648	- CASINO HARBOR LIGHT 1	41 39 18 N 87 25 54 W	<b>Q G</b>	50 15		SG on cylindrical tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
19649	- CASINO HARBOR LIGHT 2		<b>Oc R</b> 4s	50 15		TR on cylindrical tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
19650	- PASTRICK MARINA LIGHT 3	41 39 12 N 87 26 06 W	<b>FI G</b> 4s	16 5		SG on post.	Maintained from Apr. 1 to Dec. 15. Private aid. Visible 294° through 359°.
19655	- PASTRICK MARINA LIGHT 4	41 39 12 N 87 26 00 W	<b>FI R</b> 4s	16 5		TR on post.	Maintained from Apr. 1 to Dec. 15. Private aid. Visible 294° through 359°.
<b>Indiana Harbor</b>							
19660	- SOUTH BULKHEAD LIGHT	41 39 36 N 87 25 12 W	<b>FI R</b> 2s	49 15		Pyramidal tower.	Private aid.
19665	- EAST BULKHEAD LIGHT		<b>FI R</b> 2s	48 15		Pyramidal tower. 40	Private aid.
19670	- NORTH BULKHEAD LIGHT		<b>FI R</b> 2s	48 15		Pyramidal tower.	Private aid.
19675	- <b>East Breakwater Light</b>	41 40 51 N 87 26 28 W	<b>Iso G</b> 6s	78 24	14	Square tower. 75	HORN: 2 blasts ev 20s (2s bl- 2s si-2s bl-14s si). Operates from Apr. to Dec.
19685	- LIGHT 2	41 41 06 N 87 26 49 W	<b>Oc R</b> 4s	29 9	6	TR on pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
19690	- LIGHT 5		<b>F G</b>	48 15	7	White cylindrical tower with green band.	
19695	- LIGHT 6		<b>FI R</b> 2.5s	48 15	6	White cylindrical tower with red band.	Higher intensity beam on bearing 165.5°.
19700	- LIGHT 7		<b>F G</b>	45 14	9	SG on white cylindrical tower. 20	Higher intensity beam towards lake.
19705	- LIGHT 8		<b>FI R</b> 4s	13 4	5	TR on white cylindrical tower. 20	
<b>CALUMET AND INDIANA HARBORS (Chart 14929)</b>							
19710	American Oil Company Intake Buoy A	41 40 48 N 87 28 18 W				White with orange bands and orange diamond.	Maintained from Apr. 15 to Nov. 15. Private aid.
19715	WHIHALA BEACH BREAKWATER LIGHT 1	41 41 06 N 87 29 18 W	<b>FI G</b> 4s	25 8		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
19720	WHIHALA BEACH BREAKWATER LIGHT 2		<b>FI R</b> 3s	25 8		On post.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>Calumet</b>							
19740	HAMMOND INTAKE CRIB LIGHT	41 42 12 N 87 29 48 W	<b>FI W</b> 6s	26 8		On tower.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>Hammond Marina</b>							
<i>Aids maintained from Apr. 15 to Nov. 15.</i>							
19745	- ENTRANCE LIGHT 1	41 41 48 N 87 30 18 W	<b>FI G</b> 4s			SG on pile.	Private aid.
19750	- ENTRANCE LIGHT 2		<b>FI R</b> 4s			TR on pile.	Private aid.
19755	- Lighted Obstruction Buoy A		<b>FI W</b> 2.5s			White with orange bands and orange diamond.	Private aid.
19760	- Lighted Obstruction Buoy B		<b>FI W</b> 2.5s			White with orange bands and orange diamond.	Private aid.
19765	- Lighted Obstruction Buoy C		<b>FI W</b> 2.5s			White with orange bands and orange diamond.	Private aid.
19770	- Lighted Obstruction Buoy D		<b>FI W</b> 2.5s			White with orange bands and orange diamond.	Private aid.
<b>Calumet</b>							
19775	Nipso Obstruction Buoy A	41 42 00 N 87 30 24 W				White with orange bands worded SUBMERGED PILING.	Maintained from Apr. 1 to Nov. 1. Private aid.
19780	- PARK 101ST STREET PIER LIGHT	41 42 47 N 87 31 31 W	<b>FI R</b> 4s	28 9	7	TR on post.	
<b>CHICAGO LAKE FRONT (Chart 14927)</b>							
19785	- Isolated Danger Buoy D	41 46 00 N 87 23 42 W				Black and red bands; can.	
19790	- Northeast Shoal Lighted Buoy 2 Marks east side of shoal.	41 45 36 N 87 28 02 W	<b>FI R</b> 4s		5	Red.	RACON: C (-•-•-•). Replaced by nun from Dec. 1 to Apr. 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>CALUMET AND INDIANA HARBORS (Chart 14929)</b>							
19795	- East Shoal Lighted Buoy 4	41 43 59 N 87 28 14 W	FI R 6s		5	Red.	Replaced by nun from Dec. 14 to Mar. 28.
19800	- Harbor Breakwater South End Light	41 43 34 N 87 29 36 W	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.	HORN: 1 blast ev 15s (2s bl). Operates continuously from Apr. to Dec.
19810	- Harbor Lighted Buoy 1	41 43 03 N 87 29 40 W	FI G 4s		4	Green.	Replaced by can from Dec. 14 to Mar. 28.
19815	- Buoy 3					Green can.	
19820	- Buoy 5					Green can.	
19825	- Harbor Lighted Buoy 7	41 43 51 N 87 31 01 W	FI G 4s		4	Green.	Replaced by can from Dec. 14 to Mar. 28.
19827	- HARBOR BREAKWATER OBSTRUCTION LIGHT	41 44 29 N 87 30 52 W	FI Y 2.5s	28 9	8	White cylindrical tower with yellow band.	
19830	- HARBOR LIGHT	41 44 13 N 87 30 29 W	FI R 2.5s	51 16	7	White cylindrical tower with red band.	
19835	- HARBOR ENTRANCE SOUTH SIDE LIGHT		FI G 4s	31 9	6	White cylindrical tower with green band. 27	
19840	- PIERHEAD LIGHT	41 44 01 N 87 31 44 W	Iso R 6s	31 9	5	TR on post. 20	Red from 060° to 240°. Obscured from 240° to 060°.
19845	CALUMET HARBOR DISPOSAL AREA LIGHT	41 43 53 N 87 31 30 W	FI G 6s	26 8	3	SG on tower.	
19850	- RIVER ENTRANCE LIGHT	41 43 56 N 87 31 46 W	FI G 2.5s	28 9	4	SG on post.	
<b>CHICAGO LAKE FRONT (Chart 14927)</b>							
19855	Clarke Point Buoy 8	41 45 34 N 87 31 44 W				Red nun.	Maintained from Apr. 14 to Nov. 01.
19860	FILTRATION PLANT BREAKWATER SOUTH END LIGHT	41 45 24 N 87 32 18 W	FI W 2.5s	39 12		NW on skeleton tower marked DANGER.	Maintained from May 1 to Nov. 1. Private aid.
19865	FILTRATION PLANT BREAKWATER NORTH END LIGHT	41 45 42 N 87 32 36 W	FI 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		FI R 3s	61 19		Silver-gray lantern on red skeleton tower on stone crib. 50	Private aid. BELL: 1 stroke ev 12s.
19875	JACKSON PARK OUTER HARBOR LIGHT 2	41 47 06 N 87 34 00 W	FI R 2.5s	28 9		TR on pile at end of breakwater. 21	Maintained from Apr. 15 to Dec. 1. Private aid.
19880	JACKSON PARK OUTER HARBOR LIGHT 4	41 46 54 N 87 34 06 W	FI R 4s	28 9		TR on pile. 21	Maintained from Apr. 15 to Dec. 1. Private aid.
19885	JACKSON PARK INNER HARBOR LIGHT 6	41 46 48 N 87 34 24 W	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 42 N 87 34 24 W	F G	32 10		SG on pile.	Maintained from Apr. 15 to Dec. 1. Private aid.
19895	FIFTY-NINTH STREET YACHT HARBOR SOUTH PIER LIGHT		F G	35 11		On post.	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
<b>LAKE MICHIGAN</b>							
19900	FIFTY-NINTH STREET YACHT HARBOR NORTH PIER LIGHT		<b>F R</b>	15 5		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
19905	South Park Shoal Buoy 6 Marks east side of shoal.					Red nun.	
19910	<i>Clemson Shoal Lighted Bell Buoy 4</i>		<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 14 to Mar. 28.
19915	Hyde Park Shoal Outside Buoy 2					Red nun.	
19920	<i>Morgan Shoals Lighted Buoy 2</i>	41 48 39 N 87 34 28 W	<b>FI R 2.5s</b>			Red.	Maintained from Apr. 1 to Nov. 1.
19925	<b>Four-Mile Crib Light</b>	41 52 24 N 87 32 42 W	<b>FI W 15s</b>	66 20	10	Red skeleton tower on stone crib.	Private aid. HORN: 1 blast ev 20s (2s bl).
<b>CHICAGO HARBOR (Chart 14928)</b>							
19930	THIRTY-FIRST STREET OUTER JETTY LIGHT	41 50 22 N 87 36 16 W	<b>FI Y 2.5s</b>	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 23 N 87 36 18 W	<b>FI W 2s</b>			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 N 87 36 21 W	<b>FI W 2s</b>			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 24 N 87 36 23 W	<b>FI W 2s</b>			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 N 87 36 26 W	<b>FI Y 2.5s</b>	26 8		NW on cylindrical tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
<b>Northerly Island Danger Zone</b>							
19955	BURNHAM PARK HARBOR LIGHT	41 51 06 N 87 36 36 W	<b>FI G 3s (R sector)</b>	60 18		On skeleton tower. 44	Red from 135° to 255°. Maintained from Apr. 15 to Dec. 1. Private aid.
19956	<b>NORTHERLY ISLAND DANGER LIGHTED BUOY A</b>	41 51 52 N 87 36 21 W	<b>FI W 2.5s</b>			White and orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct 31. Private aid.
19956.1	<b>NORTHERLY ISLAND DANGER LIGHTED BUOY B</b>	41 51 49 N 87 36 21 W	<b>FI W 2s</b>			White and orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct 31. Private aid.
19956.2	<b>NORTHERLY ISLAND DANGER LIGHTED BUOY C</b>	41 51 45 N 87 36 21 W	<b>FI W 2s</b>			White with orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct 31. Private aid.
<b>Chicago Harbor</b>							
19960	CHICAGO HARBOR LIGHT	41 53 22 N 87 35 26 W	<b>FI R 5s</b>	82 25	24	White conical tower.	Floodlighted. Apr. to Dec. HORN: 2 blasts ev 30s (1s bl). Operates from Apr. to Dec.
19980	- OUTER BREAKWATER SOUTH END LIGHT		<b>Iso R 6s</b>	27 8	6	White cylindrical tower with red band.	
19985	- ENTRANCE SOUTH SIDE LIGHT	41 53 14 N 87 35 26 W	<b>FI G 4s</b>	27 8	6	White cylindrical tower with green band. 21	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
19990	- SOUTH BREAKWATER NORTHEND LIGHT 1	41 52 29 N 87 36 36 W	<b>FI G</b> 2.5s	35 11	4	SG on post.	
19995	- BREAKWATER SOUTH LIGHT		<b>FI R</b> 4s	23 7	4	White cylindrical tower with red band. 20	
20000	- SOUTHEAST GUIDE WALL LIGHT		<b>Iso W</b> 6s	48 15	9	White square tower with green band.	Visible from 157° to 023°.
20005	- MUNICIPAL PIER NO. 1 LIGHT		<b>FI Y</b> 2.5s	30 9		NY on skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20010	- NAVY PIER SOUTH LIGHT		<b>Iso W</b> 4s	30 9		On skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20012	- NAVY PIER NORTH LIGHT		<b>Iso W</b> 4s	30 9		On skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20015	- FILTRATION PLANT LIGHT B		<b>FI W</b> 4s	15 5		On dolphin.	Maintained from Mar. 15 to Dec. 15. Private aid.
20020	- FILTRATION PLANT LIGHT A		<b>FI W</b> 4s	10 3			Maintained from Mar. 15 to Dec. 15. Private aid.
20025	OAK STREET BREAKWATER LIGHT	41 54 12 N 87 36 24 W	<b>FI G</b> 4s	30 9	5	SG on post.	
20030	- OAK STREET BREAKWATER NORTHEAST END LIGHT 2	41 54 11 N 87 36 34 W	<b>FI R</b> 2.5s	26 8	5	TR on post.	
20035	- OAK STREET BREAKWATER SOUTHWEST END LIGHT 3	41 54 05 N 87 37 02 W	<b>FI G</b> 2.5s	26 8	5	SG on post.	
20040	WILLIAM E. DEVER CRIB LIGHT	41 55 00 N 87 34 18 W	<b>Q W</b>	72 22		On skeleton tower.	Private aid. HORN: 1 blast ev 20s (2s bl).
<b>Chicago North Side (Chart 14928)</b>							
20055	NORTH AVENUE JETTY LIGHT	41 54 54 N 87 37 12 W	<b>Q R</b>	38 12		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20080	DIVERSEY HARBOR ENTRANCE NORTH BREAKWATER LIGHT	41 55 54 N 87 37 48 W	<b>FI R</b> 3s	38 12		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
20085	DIVERSEY HARBOR ENTRANCE SOUTH BREAKWATER LIGHT	41 55 54 N 87 37 54 W	<b>FI G</b> 3s	38 12		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
20090	BELMONT HARBOR LIGHT	41 56 30 N 87 38 00 W	<b>FI R</b> 3s	30 9		On tubular steel tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20095	BELMONT HARBOR INNER LIGHT	41 56 36 N 87 38 06 W	<b>FI R</b> 3s	80 24		On skeleton tower.	Maintained from Apr. 1 to Dec. 1. Private aid.
20100	Belmont Rock Shoal Buoy	41 56 38 N 87 37 40 W				Red nun.	Maintained from Apr. 14 to Nov. 01.
<b>CHICAGO LAKE FRONT (Chart 14927)</b>							
20105	MONTROSE BREAKWATER LIGHT	41 57 50 N 87 37 54 W	<b>FI R</b> 3s	40 12		On skeleton tower.	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
<b>LAKE MICHIGAN</b>							
20110	MONTROSE HARBOR EAST BREAKWATER LIGHT	41 57 36 N 87 38 24 W	<b>FI R</b> 3s	40 12		On skeleton tower. 33	Maintained from Apr. 15 to Dec. 1. Private aid.
20115	MONTROSE HARBOR WEST BREAKWATER LIGHT		<b>FI G</b> 3s	41 12		On skeleton tower. 33	Maintained from Apr. 15 to Dec. 1. Private aid.
20130	WILSON AVENUE BREAKWATER LIGHT		<b>FI G</b> 3s	36 11		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20135	WILSON AVENUE INTAKE CRIB LIGHT	41 58 00 N 87 35 30 W	<b>Q W</b>	68 21		On cylindrical tower. 47	Private aid. HORN: 1 blast ev 20s (2s bl).
20140	FOSTER AVENUE PIERHEAD LIGHT	41 58 48 N 87 38 48 W	<b>FI W</b> 3s	41 12		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20145	HOLLYWOOD AVENUE BREAKWATER LIGHT	41 59 12 N 87 39 00 W	<b>FI R</b> 3s	41 12		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20165	FARWELL AVENUE BREAKWATER LIGHT	42 00 24 N 87 39 24 W	<b>FI R</b> 3s	44 13		On skeleton tower.	Maintained from Apr. 15 to Dec. 1. Private aid.
20170	South Boulevard Branch Warning Daybeacons	42 01 36 N 87 40 00 W				NW on pile worded DANGER GROIN.	Maintained from Apr. 1 to Nov. 1. Private aids.
<b>Evanston</b>							
<i>Buoys maintained from May 1 to Oct. 31.</i>							
20185	- BREAKWATER LIGHT	42 02 42 N 87 40 18 W	<b>FI R</b> 4s	22 7		On post.	Maintained from May 1 to Oct. 15. Private aid.
20190	<b>Grossepoint Light</b>	42 04 00 N 87 41 00 W	<b>FI (2) W</b> 15s	119 36		White, conical tower, red roofs.	Private aid.
20195	- Boat Ramp Buoy 1					Green can.	Private aid.
20200	- Boat Ramp Buoy 3					Green can.	Private aid.
20205	- Boat Ramp Buoy 5					Green can.	Private aid.
20210	- Boat Ramp Buoy 2					Red nun.	Private aid.
20215	- Boat Ramp Buoy 4					Red nun.	Private aid.
20220	- Boat Ramp Buoy 6					Red nun.	Private aid.
20221	- Boat Ramp Buoy 7					Green can.	Private aid.
20222	- Boat Ramp Buoy 8					Red nun.	Private aid.
<b>WAUKEGAN TO SOUTH HAVEN (Chart 14905)</b>							
<b>Wilmette Harbor</b>							
20225	- Entrance Buoy 1	42 04 36 N 87 40 42 W				Green can.	Maintained from May 1 to Nov. 15. Private aid.
20230	- Entrance Buoy 2					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
20235	- ENTRANCE SOUTH LIGHT	42 04 36 N 87 40 48 W	<b>FI G</b> 4s	15 5		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
<b>LAKE MICHIGAN</b>							
20240	- ENTRANCE NORTH LIGHT	42 04 36 N 87 40 48 W	<b>FI R</b> 4s	20 <b>6</b>		On pile.	Maintained from Apr. 15 to Nov. 15. Private aid.
20245	- PIERHEAD LIGHT	42 04 42 N 87 40 48 W	<b>FI W</b> 4s	40 <b>12</b>		On pile.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>WAUKEGAN TO SOUTH HAVEN (Chart 14905)</b>							
20250	<i>Wilmette Wreck Lighted Bell Buoy WR 2</i>	42 05 41 N 87 38 58 W	<b>Q R</b>		4	Red.	Replaced by nun from Dec. 14 to Mar. 28.
20255	<i>Grossepoint Outer Lighted Bell Buoy 4</i> Marks shoal.	42 08 14 N 87 35 17 W	<b>FI R</b> 6s		5	Red.	Replaced by nun from Dec. 14 to Mar. 28.
20260	HIGHLAND PARK BREAKWATER LIGHT	42 11 24 N 87 47 12 W	<b>Q R</b>	21 <b>6</b>		On yellow post.	Maintained from May 1 to Oct. 31. Private aid.
20275	LAKE FOREST BREAKWATER LIGHT	42 15 01 N 87 49 03 W	<b>FI R</b> 4s	25 <b>8</b>		TR on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
20280	LAKE FOREST JETTY LIGHT	42 15 02 N 87 49 05 W	<b>FI G</b> 4s	21 <b>6</b>		SG on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
<b>Great Lakes</b>							
20285	- LIGHT 2		<b>FI R</b> 4s	34 <b>10</b>	5	White cylindrical tower with red band.	
20290	- LIGHT 1		<b>FI G</b> 4s	34 <b>10</b>	6	White cylindrical tower with green band.	
20295	- LIGHT 4		<b>FI R</b> 2.5s	15 <b>5</b>	4	TR on tower.	
20300	- LIGHT 3		<b>FI G</b> 2.5s	15 <b>5</b>	5	SG on tower.	
<b>PORT WASHINGTON TO WAUKEGAN (Chart 14904)</b>							
<b>Waukegan</b>							
20305	- SOUTH HARBOR MARINA LIGHT 2	42 21 21 N 87 49 14 W	<b>Q R</b>	26 <b>8</b>		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
20310	- SOUTH HARBOR MARINA LIGHT 1	42 21 24 N 87 49 18 W	<b>Q G</b>	26 <b>8</b>		On pile.	Maintained from Apr. 1 to Nov. 1. Private aid.
20315	- Harbor Light	42 21 38 N 87 48 48 W	<b>Oc G</b> 4s	36 <b>11</b>	14	On cylindrical tower with green band. 35	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from Apr. to Dec.
20325	- Shoals Buoy 1	42 21 24 N 87 47 42 W				Green can.	
20330	- Shoals Lighted Buoy 3 Marks northeast side of shoal.	42 21 40 N 87 47 54 W	<b>FI G</b> 2.5s		5	Green.	Can; winter marker. Maintained from Mar. 21 to Dec. 1.
20335	- BREAKWATER LIGHT		<b>FI (2) W</b> 5s 0.4s fl 0.6s ec. 0.4s fl 3.6s ec.	32 <b>10</b>	6	White cylindrical tower with black band.	
20340	- NORTH PIERHEAD LIGHT	42 21 41 N 87 48 53 W	<b>FI R</b> 4s	24 <b>7</b>	3	TR on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>PORT WASHINGTON TO WAUKEGAN (Chart 14904)</b>							
20345	COMMONWEALTH EDISON BREAKWATER LIGHT		<b>FI R 6s</b>	35 11		On skeleton tower.	Private aid.
20350	JOHNS-MANVILLE INTAKE CRIB LIGHT		<b>Q W</b>	38 12		On skeleton tower.	Private aid.
<b>Zion Intake</b>							
<i>Lights maintained from Apr. 1 to Oct. 31.</i>							
20355	- Lighted Buoy A	42 26 37 N 87 47 25 W	<b>Q W</b>			White can with orange bands and diamond.	Private aid.
20360	- WEST LIGHT	42 26 39 N 87 47 31 W	<b>FI W 2.5s</b>	5 2		NW on post.	Private aid.
20380	Zion Discharge Buoy B					White can with orange bands and diamond.	Maintained from Apr. 1 to Oct. 31. Private aid.
20385	Zion Discharge Buoy C					White can with orange bands and diamond.	Maintained from Apr. 1 to Oct. 31. Private aid.
<b>Northpoint Marina</b>							
<i>Aids to navigation maintained from Apr. 1 to Nov. 1.</i>							
20386	- Reef Obstruction Lighted Buoy A	42 28 49 N 87 47 53 W	<b>Q W</b>			White can with orange bands and diamond worded REEF.	Private aid.
20387	- Reef Obstruction Lighted Buoy B		<b>Q W</b>			White can with orange bands and diamond worded REEF.	Private aid.
20388	- Reef Obstruction Lighted Buoy C		<b>Q W</b>			White can with orange bands and diamond worded REEF.	Private aid.
20389	- Reef Obstruction Lighted Buoy D		<b>Q W</b>			White can with orange bands and diamond worded REEF.	Private aid.
20390	- ENTRANCE LIGHT 1	42 29 18 N 87 47 54 W	<b>FI G 4s</b>	20 6		SG on post.	Private aid.
20395	- ENTRANCE LIGHT 2		<b>FI R 4s</b>	20 6		TR on post.	Private aid.
20400	- NORTH OBSTRUCTION LIGHT		<b>Q W</b>	20 6		NW on post.	Private aid.
20405	- CENTER OBSTRUCTION LIGHT		<b>Q W</b>	20 6		NW on post.	Private aid.
20410	- SOUTH OBSTRUCTION LIGHT		<b>Q W</b>	20 6		NW on post.	Private aid.
<b>Prairie Harbor</b>							
20412	- ENTRANCE NORTH PIER LIGHT 2	42 29 35 N 87 48 04 W	<b>FI R 2.5s</b>	21 6		TR on pole.	Private aid.
20413	- ENTRANCE SOUTH PIER LIGHT 1	42 29 34 N 87 48 07 W	<b>FI G 2.5s</b>	21 6		SG on pole.	Private aid.
<b>Kenosha</b>							
20415	- Light	42 35 20 N 87 48 31 W	<b>Iso R 6s</b>	50 15	12	Red conical tower. 50	HORN: 1 blast ev 30s (3s bl). Operates from Apr. to Dec.
20430	- BREAKWATER LIGHT		<b>FI R 4s</b>	20 6	8	White cylindrical tower with red band. 15	Higher intensity beam lakeward.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
20435	- SOUTH PIER LIGHT		<b>FI G</b> 4s	34 10	5	Green band on cylindrical tower.	Higher intensity beam lakeward.
20445	SOUTHPORT MARINA ENTRANCE LIGHT 2	42 34 54 N 87 48 36 W	<b>FI R</b> 4s	36 11		TR on pile.	Private aid.
20450	SOUTHPORT MARINA ENTRANCE LIGHT 1		<b>FI G</b> 4s	31 9		SG on pile.	Private aid.
20455	SOUTHPORT MARINA INNER BREAKWATER LIGHT		<b>Q W</b>	34 10		NW on post worded DANGER ROCKS.	Private aid.
<b>RACINE HARBOR (Chart 14925)</b>							
<b>Racine</b>							
20470	- LAUNCH BASIN ENTRANCE LIGHT	42 43 42 N 87 46 36 W	<b>FI R</b> 2.5s	27 8		TR on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
20475	- LAUNCH BASIN INNER LIGHT		<b>FI G</b> 2.5s	23 7		SG on post.	Maintained from Mar. 1 to Dec. 15. Private aid.
20480	- <b>Reef Light</b> Marks east side of reef.	42 43 39 N 87 44 10 W	<b>FI W</b> 6s	50 15	11	On skeleton tower. 50	HORN: 1 blast ev 15s (2s bl). Operates continuously from Apr. to Nov.
20485	- <i>Reef West End Lighted Buoy 1</i>	42 43 33 N 87 46 01 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 7 to Mar. 21.
20490	- EAST HARBOR ENTRANCE LIGHT 2	42 44 01 N 87 46 14 W	<b>Q R</b>	50 15	10	On post with 10 ft. lightpipe.	Maintained from Apr. 1 to Nov. 1. Private aid. HORN: 2 blasts ev 18s (2s bl- 2s si-2s bl-12s si).
20495	- WEST HARBOR ENTRANCE LIGHT 3		<b>Q G</b>	52 16		SG on skeleton tower.	Maintained from Apr. 15 to Oct. 31. Private aid.
20500	- HARBOR LIGHT 5		<b>Q G</b>	33 10		SG on pile.	Maintained from Mar. 1 to Dec. 15. Private aid.
20505	- <i>Harbor Channel Lighted Buoy 4</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20510	- <i>Harbor Channel Lighted Buoy 6</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20515	- HARBOR LIGHT 9		<b>Q G</b>	18 5		SG on post.	Maintained from Apr. 15 to Oct. 31. Private aid.
20520	- <i>Harbor Channel Lighted Buoy 8</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20525	- <i>Harbor Channel Lighted Buoy 10</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20530	- <i>Harbor Channel Lighted Buoy 12</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20535	- <i>Harbor Preferred Channel Lighted Buoy</i>		<b>FI (2+1) R</b> 2.5s			Red and green bands.	Maintained from Apr. 15 to Oct. 31. Private aid.
20540	- HARBOR LIGHT 14		<b>FI R</b> 2.5s	33 10		TR on pile.	Maintained from Mar. 1 to Dec. 15. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
20545	- HARBOR LIGHT 13		<b>Q G</b>	18 5		SG on post.	Maintained from Apr. 15 to Oct 31. Private aid.
20550	- HARBOR JUNCTION LIGHT		<b>FI (2+1) G 6s</b>	30 9		JG on pile.	Maintained from Mar. 1 to Dec. 15. Private aid.
20555	- <i>Yacht Club Channel Lighted Buoy 2</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20560	- <i>Yacht Club Channel Lighted Buoy 3</i>		<b>Q G</b>			Green.	Maintained from Apr. 15 to Oct. 31. Private aid.
20565	- <i>Yacht Club Channel Lighted Buoy 4</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20570	- <i>Yacht Club Channel Lighted Buoy 5</i>		<b>Q G</b>			Green.	Maintained from Apr. 15 to Oct. 31. Private aid.
20575	- <i>Yacht Club Channel Lighted Buoy 6</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20580	- <i>Yacht Club Channel Lighted Buoy 8</i>		<b>Q R</b>			Red.	Maintained from Apr. 15 to Oct. 31. Private aid.
20585	- YACHT CLUB SOUTH BREAKWATER LIGHT	42 44 06 N 87 46 36 W	<b>F R</b>	15 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
20590	- YACHT CLUB NORTH BREAKWATER LIGHT		<b>F G</b>	15 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>LAKE MICHIGAN (Chart 14901)</b>							
20595	<i>NOAA Lighted Weather Buoy 45007</i>	42 40 28 N 87 01 36 W	<b>FI (4) Y 20s</b>			Yellow disc-shaped hull.	Replaced by nun from Nov. 1 to Apr. 1.
<b>PORT WASHINGTON TO WAUKEGAN (Chart 14904)</b>							
20600	Wind Point South Shoal Buoy 16 Marks east side of shoal.	42 46 13 N 87 44 04 W				Red nun.	
20605	<b>Wind Point Light</b> Marks shoal.	42 46 52 N 87 45 30 W	<b>FI W 20s</b>	111 34	28	White conical tower connected to dwelling. 108	
20610	<i>Wind Point North Shoal Lighted Buoy 14</i> Marks southeast side of shoals.	42 47 34 N 87 43 35 W	<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 7 to Mar. 21.
20613	OAK CREEK BREAKWATER LIGHT 3	42 50 46 N 87 49 30 W	<b>FI G 4s</b>	30 9		SG on pile on breakwater.	Maintained from Feb. 1 to Dec. 1. Private aid.
20614	OAK CREEK BREAKWATER LIGHT 2	42 50 48 N 87 49 26 W	<b>FI R 4s</b>	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 N 87 50 14 W		20 6		SG on pile on breakwater.	Private aid.
20616	OAK CREEK PARK LIGHT 2	42 51 59 N 87 50 15 W	<b>FL R 4s</b>	27 8		TR on pile on breakwater.	Private aid.
20617	WISCONSIN ELECTRIC EAST END JETTY LIGHT A	42 51 11 N 87 49 52 W	<b>Q Y</b>			Steel sheet pile.	Maintained from May 1 to Nov. 1. Private.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
20618	WISCONSIN ELECTRIC EAST END JETTY LIGHT B	42 51 11 N 87 49 51 W	<b>Q Y</b>			Steel sheet pile.	Maintained from May 1 to Nov. 1. Private.
20626.5	SOUTH MILWAUKEE Y.C. HARBOR ENTRANCE LIGHT 1	42 54 17 N 87 50 34 W	<b>Q G</b>	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 N 87 50 32 W	<b>Q R</b>	12 4		TR on pole on sunken barge.	Maintained from May 1 to Nov. 1. Private aid.
20629	DREDGE 906 MOORING BUOY	42 58 06 N 87 47 10 W	<b>Q W</b>				Maintained from May 1 to Oct. 1. Private aid.
20630	<i>Milwaukee South Point Lighted Bell Buoy 1</i> Marks east side of shoal.	42 59 21 N 87 49 50 W	<b>FI G 4s</b>		8	Green.	Replaced by can from Dec. 1 to Apr. 14.
<b>MILWAUKEE HARBOR (Chart 14924)</b>							
<b>Milwaukee</b>							
20635	<b>- Breakwater Light</b>	43 01 37 N 87 52 55 W	<b>FI R 10s</b>	61 19	14	Black lantern on white square structure. 53	Structure is floodlighted from sunset to sunrise. Submarine cable runs to Milwaukee Pierhead Light. Illuminated sign on channelward side of light structure worded CABLE CROSSING NO ANCHORING. HORN: 2 blasts ev 20s (2s bl- 2s si-2s bl-14s si). Operates from Apr. 1 to Nov. 1.
20645	<b>- BREAKWATER ENTRANCE SOUTH SIDE LIGHT</b>	43 01 31 N 87 52 54 W	<b>FI G 2.5s</b>	48 15	9	White cylindrical tower with green band.	
20650	<b>- SOUTH ENTRANCE LIGHT 1</b>	43 00 27 N 87 52 37 W	<b>FI G 4s</b>	27 8	4	SG on post.	
20655	<b>- SOUTH ENTRANCE LIGHT 2</b>	43 00 30 N 87 52 35 W	<b>FI R 4s</b>	35 11	4	White cylindrical tower with red band.	
20660	<b>- NORTH ENTRANCE LIGHT 1</b>	43 02 37 N 87 52 49 W	<b>FI G 4s</b>	34 10	7	White cylindrical tower with green band.	
20665	<b>- NORTH ENTRANCE LIGHT 2</b>	43 02 41 N 87 52 48 W	<b>FI R 4s</b>	32 10	4	TR on post. 20	
20670	<b>- Pierhead Light</b>	43 13 54 N 87 53 43 W	<b>FI R 4s</b>	45 14	7	TR on cylindrical tower. 41	
20675	<b>- SOUTH PIERHEAD LIGHT</b>		<b>FI W 4s</b>	33 10		On gray pole with concrete base. 21	Private aid.
20680	<i>Menomonee River Obstruction Lighted Buoy</i>	43 01 56 N 87 55 27 W	<b>Q R</b>				
20685	<b>- CITY PIER SOUTH SLIP LIGHT 2</b>	43 01 24 N 87 53 42 W	<b>F R</b>	12 4		On yellow post.	Private aid.
20690	<b>- CITY PIER SOUTH SLIP LIGHT 1</b>		<b>F G</b>	12 4		On yellow post.	Private aid.
20695	<b>- CITY SOUTH PIER NO. 2 NORTH LIGHT</b>		<b>FI G 4s</b>	20 6		On yellow post.	Maintained from Apr. 30 to Nov. 30. Private aid.
20700	<b>- CITY SOUTH PIER NO. 2 SOUTH LIGHT</b>		<b>Q R</b>	20 6		On yellow post.	Maintained from Apr. 30 to Nov. 30. Private aid.
20705	<b>- Tanker Pier Buoy 1</b>					Black spar.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
20710	- Tanker Pier Buoy 2					Red spar.	Private aid.
20715	- TANKER PIER LIGHT	43 00 54 N 87 53 24 W	<b>FI W</b> 4s	14 4		On green post.	Private aid.
20720	- SOUTH DISPOSAL AREA LIGHT 2	43 00 17 N 87 53 04 W	<b>FI R</b> 2.5s	31 9	4	TR on pile.	
20725	SOUTH SHORE PARK BREAKWATER LIGHT		<b>Q G</b>	16 5		On post standard.	Private aid.
20729	<i>South Shore Park Entrance Lighted Buoy 1</i>	42 59 38 N 87 52 28 W	<b>FI G</b> 4s			Green.	Maintained from May 1 to Oct. 15. Private aid.
20730	<i>South Shore Park Entrance Lighted Buoy 2</i>		<b>FI R</b> 2.5s			Red.	Maintained from May 1 to Oct. 15. Private aid.
20735	Texas Rock Buoy 2					Red nun.	Maintained from Apr. 14 to Oct. 14.
20751	- War Memorial South Daybeacon	43 02 19 N 87 53 45 W		15 5		NW on pile worded DANGER BREAKWATER.	Private aid.
20752	- War Memorial North Daybeacon			15 5		NW on pile worded DANGER BREAKWATER.	Private aid.
<b>MicKinley Marina</b>							
<i>Aids to navigation maintained from Apr. 1 to Oct. 31.</i>							
20755	- LIGHT 1	43 02 46 N 87 52 55 W	<b>Q G</b>	20 6		SG on post.	Private aid.
20756	- PREFERRED CHANNEL LIGHT A/B	43 02 48 N 87 52 51 W	<b>FI (2+1) R</b> 6s	21 6		JR on post.	Private aid.
20757	- LIGHT 2	43 02 42 N 87 52 53 W	<b>FI R</b> 2.5s	21 6		TR on post.	Private aid.
20758	- Daybeacon 3			19 6		SG on post.	Private aid.
20759	- Daybeacon 4			19 6		TR on post.	Private aid.
20760	- Daybeacon 5			19 6		SG on post.	Private aid.
20761	- Daybeacon 6			19 6		TR on post.	Private aid.
<b>Milwaukee</b>							
20762	<i>Water Institute Lighted Research Buoy</i>	43 12 33 N 87 39 22 W	<b>Q Y</b>			Yellow.	Private aid.

# Section 16

## Lake Michigan

### Port Washington to Green Bay

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>PORT WASHINGTON TO WAUKEGAN (Chart 14904)</b>							
20765	KEVICH LIGHT	43 19 24 N 87 53 18 W	<b>Iso W</b> 8s	163 50		White cylindrical tower.	Private aid.
<b>Port Washington</b>							
20770	- BREAKWATER LIGHT	43 23 10 N 87 51 35 W	<b>FI R</b> 6s	78 24	7	On square tower.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from Apr. to Nov.
20775	- SOUTH PROJECTION JETTY LIGHT		<b>F W</b>	40 12	7	On black tower.	Private aid.
20780	- HARBOR BREAKWATER LIGHT 1		<b>FI G</b> 4s	34 10	6	White cylindrical tower with green band.	
20785	- SOUTH PIER LIGHT		<b>F G</b>	34 10		On post.	Private aid.
20790	- HARBOR LIGHT 4	43 23 15 N 87 51 49 W	<b>FI R</b> 2.5s	27 8	4	TR on post.	
20795	- MUNICIPAL MARINA LIGHT 1	43 23 18 N 87 51 48 W	<b>FI G</b> 2.5s	27 8	4	SG on post.	
<b>ALGOMA TO SHEBOYGAN (Chart 14903)</b>							
<b>Sheboygan</b>							
20805	- GENERATING STATION SOUTH INTAKE CRIB LIGHT 6	43 42 56 N 87 41 58 W	<b>FI R</b> 3s	46 14		TR on skeleton tower on cylindrical well.	Private aid.
20810	- GENERATING STATION MIDDLE INTAKE CRIB LIGHT 4		<b>FI R</b> 10s	50 15		TR on rectangular tower.	Private aid.
20815	- <i>Generating Station North Intake Lighted Buoy 2</i>	43 43 02 N 87 42 01 W	<b>FI R</b> 4s			Red.	Maintained from May 1 to Oct. 15. Private aid.
<b>MANITOWOC AND SHEBOYGAN (Chart 14922)</b>							
<b>Sheboygan</b>							
20820	- BREAKWATER LIGHT	43 44 58 N 87 41 34 W	<b>FI W</b> 4s	55 17	9	On cylindrical tower. 50	HORN: 1 blast ev 30s (3s bl). Operates from Apr. to Nov.
20830	- SOUTH PIERHEAD LIGHT	43 44 55 N 87 41 41 W	<b>FI G</b> 4s	22 7	6	SG on post. 22	
20832	- MARINA LIGHT 2	43 45 00 N 87 42 06 W	<b>FI R</b> 4s	20 6		TR on pole.	Maintained from May 1 to Nov. 15. Private aid.
20833	- Marina Daybeacon 1					SG on pole.	Private aid.
20835	- NORTH PIERHEAD LIGHT		<b>F R</b>	29 9	3	TR on post. 26	
20840	- Reef Buoy 2 Marks east side of reef.	43 45 27 N 87 41 09 W				Red nun.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>Manitowoc</b>							
20842	- INTAKE EAST LIGHT	44 04 42 N 87 38 54 W	<b>Q W</b>	10 3		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
20843	- INTAKE WEST LIGHT	44 04 48 N 87 39 00 W	<b>Q W</b>	10 3		On post.	Maintained from Apr. 15 to Dec. 1. Private aid.
20845	- Shoal Buoy 1 Marks northeast side of shoal.					Green can.	
20850	- Shoal Buoy 2					Red nun.	
20855	- SOUTH BREAKWATER LIGHT 3		<b>FI G 2.5s</b>	37 11	8	Skeleton tower with green band.	Higher intensity beam lakeward.
20860	<b>Manitowoc Breakwater Light</b>	44 05 34 N 87 38 37 W	<b>Iso W 6s</b>	52 16	15	On cylindrical tower on fog signal building.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operates from Apr. 1 to Dec. 1.
20863	- No Wake Buoy	44 05 36 N 87 38 48 W				White can with orange bands.	Maintained from Apr. 15 to Oct. 1. Private aid.
20865	- Buoy 6	44 05 36 N 87 38 54 W				Red nun.	Maintained from Apr. 14 to Nov. 14.
<b>Manitowoc Harbor of Refuge</b>							
20870	- Junction Buoy MH	44 05 35 N 87 38 58 W				Red and green bands; nun.	Maintained from Apr. 14 to Nov. 14.
20875	- PIERHEAD LIGHT 8	44 05 30 N 87 39 06 W	<b>FI R 4s</b>	33 10	4	TR on skeleton tower.	
20880	- Buoy 1	44 05 38 N 87 38 58 W				Green can.	Maintained from Apr. 14 to Nov. 14.
20885	- Buoy 2					Red nun.	Maintained from Apr. 14 to Nov. 14.
20890	- Buoy 3					Green can.	Maintained from Apr. 14 to Nov. 14.
20895	- LIGHT 4	44 05 40 N 87 38 56 W	<b>FI R 2.5s</b>	15 5	4	TR on post.	
20900	- ICE BOOM WEST LIGHT	44 05 36 N 87 38 54 W	<b>Q W</b>	4 1		On post.	Maintained on station only during deployment of ice boom. Private aid.
20905	- ICE BOOM EAST LIGHT	44 05 42 N 87 38 54 W	<b>Q W</b>	4 1		On post.	Maintained on station only during deployment of ice boom. Private aid.
20910	- LIGHT 5	44 05 42 N 87 38 56 W	<b>FI G 2.5s</b>	15 5	4	SG on post.	
20915	- Daybeacon 6					TR on post.	
<b>ALGOMA TO SHEBOYGAN (Chart 14903)</b>							
<b>Two Rivers</b>							
20925	- NORTH PIERHEAD LIGHT	44 08 36 N 87 33 36 W	<b>F R</b>	34 10	9	White cylindrical tower with red band.	HORN: 1 blast ev 15s (2s bl). Operated from Apr. 1 to Dec. 1.
20930	- SOUTH PIERHEAD LIGHT		<b>FI G 4s</b>	30 9	3	SG on post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
<b>ALGOMA TO SHEBOYGAN (Chart 14903)</b>							
20935	<b>Rawley Point Light</b>	44 12 39 N 87 30 32 W	<b>FI W</b> 15s	113 <b>34</b>	28	On cylindrical tower. 111	
<b>Kewaunee</b>							
20950	<b>- Shoal Light</b>	44 27 03 N 87 27 55 W	<b>FI G</b> 4s	43 <b>13</b>	8	White cylindrical tower with green band.	HORN: 1 blast ev 15s (2s bl). Operates from Apr. 1 to Dec. 1.
20955	<b>- Pierhead Light</b>	44 27 30 N 87 29 48 W	<b>F W</b>	45 <b>14</b>	15	Square tower on fog signal building.	HORN: 1 blast ev 30s (3s bl). Operated from Apr. 1 to Nov. 1
20965	<b>- BREAKWATER LIGHT</b>		<b>FI R</b> 4s	39 <b>12</b>	5	Cylindrical tower with red band. 37	
20970	<b>- NORTH PIERHEAD LIGHT 4</b>	44 27 36 N 87 29 48 W	<b>FI R</b> 6s	38 <b>12</b>	4	TR on pile.	
<b>LOWER GREEN BAY (Chart 14910)</b>							
<b>Algoma</b>							
20975	<b>- Light</b>	44 36 24 N 87 25 48 W	<b>Iso R</b> 6s	48 <b>15</b>	16	TR on cylindrical tower. 42	Standby light of reduced intensity. HORN: 1 blast ev 10s (1s bl). Operated from Apr. 1 to Dec. 1 and other times as required by local conditions.
20980	<b>- LIGHT 1</b>		<b>FI G</b> 4s	20 <b>6</b>	6	SG on post.	
20985	<b>- LIGHT 2</b>		<b>FI R</b> 4s	28 <b>9</b>	4	TR on pile on cat walk. 22	
<b>STURGEON BAY AND CANAL (Chart 14919)</b>							
20990	Canal Shoal Buoy 1 Marks east side of shoal.	44 45 34 N 87 18 06 W				Green can.	
<b>Sturgeon Bay Ship Canal</b>							
20995	<b>- Light</b>	44 47 42 N 87 18 48 W	<b>FI R</b> 10s	107 <b>33</b>	17	On cylindrical tower. 98	
21005	<b>- NORTH PIERHEAD LIGHT</b>	44 47 30 N 87 18 36 W	<b>FI R</b> 2.5s	40 <b>12</b>	9	Cylindrical tower attached to fog signal building.	HORN: 2 blasts ev 30s (2s bl-2s si-2s bl-24s si). Operated from Apr. 1 to Dec. 1.
21010	<b>- Lighted Buoy 2</b>	44 46 43 N 87 17 24 W	<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Nov. 14 to Apr. 21.
21015	<b>- Buoy 3</b>	44 47 20 N 87 18 28 W				Green can.	
21020	<b>- Buoy 4</b>					Red nun.	
21025	<b>- SOUTH PIERHEAD LIGHT</b>		<b>FI G</b> 4s	32 <b>10</b>	5	On cylindrical tower with green band.	
21030	<b>- South Side Daybeacon 5A</b>					SG on pile.	
21035	<b>- LIGHT 6</b>	44 47 36 N 87 18 48 W	<b>FI R</b> 4s	11 <b>3</b>	4	TR on post.	
21040	<b>- LIGHT 7</b>	44 48 18 N 87 19 48 W	<b>FI G</b> 4s	31 <b>9</b>	3	SG on post.	
21045	<b>- Buoy 9</b>					Green can.	
21050	<b>- Buoy 10</b>					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
21055	- Buoy 11					Green can.	
21060	- LIGHT 12	44 48 48 N 87 20 42 W	<b>F I R 4s</b>	21 6	3	TR on pile. 15	
21065	- RANGE FRONT LIGHT	44 48 42 N 87 20 06 W	<b>Q W</b>	28 9		KRW on skeleton tower. 15	Visible on range line only. Lighted throughout 24 hours.
21070	- RANGE REAR LIGHT 1,600 feet, 120° from front light.		<b>F W</b>	47 14		KRW on skeleton tower.	Visible on range line only. Lighted throughout 24 hours.
<b>Strawberry Creek Channel Entrance</b>							
<i>Aids maintained from Jun. 1 to Nov. 1.</i>							
21075	- Buoy 1	44 48 42 N 87 20 36 W				Green can.	Private aid.
21080	- Buoy 2					Red nun.	Private aid.
21085	- LIGHT 3		<b>F G</b>	38 12		On tower.	Private aid.
21090	- LIGHT 4		<b>F R</b>	38 12		On tower.	Private aid.
21095	- RANGE FRONT LIGHT	44 48 36 N 87 20 42 W	<b>F G</b>	14 4		On post.	Private aid.
21100	- RANGE REAR LIGHT 125 feet, 190° from front light.		<b>F G</b>	20 6		On post.	Private aid.
<b>Sturgeon Bay Ship Channel</b>							
21105	- LEADING LIGHT	44 49 54 N 87 23 00 W	<b>F G</b>	25 8		NB on 2nd span from west end of highway bridge.	Lighted throughout 24 hours.
21110	- Buoy 15					Green can.	
21115	- Buoy 16					Red nun.	
21117	Sturgeon Bay Ship Canal Buoy 15A	44 49 35 N 87 22 19 W				Green can.	
21118	<i>Sturgeon Bay Ship Canal Lighted Buoy 16A</i>	44 49 37 N 87 22 17 W	<b>F I R 4s</b>		3	Red nun.	Replaced by nun from Nov. 21 to Apr. 21.
21120	<i>Sturgeon Bay Ship Canal Lighted Buoy 17</i>	44 49 40 N 87 22 37 W	<b>Q G</b>		3	Green can.	Replaced by can from Nov. 21 to Apr. 21.
21125	Sturgeon Bay Ship Canal Buoy 19	44 50 02 N 87 22 57 W				Green can.	
21130	Dunlap Reef Buoy C	44 50 06 N 87 23 12 W				White with orange bands and orange diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21135	Dunlap Reef Buoy B					White can with orange bands and diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21140	Dunlap Reef Buoy D					White can with orange bands and diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21155	- Buoy 22					Red nun.	
21160	- LIGHT 21 Marks north side of Dunlap Reef.	44 50 24 N 87 23 18 W	<b>F I G 4s</b>	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
<b>LAKE MICHIGAN</b>							
21165	Dunlap Reef Buoy A					White with orange bands and orange diamond worded SHALLOW AREA.	Maintained from Apr. 1 to Oct. 31. Private aid.
21170	- Buoy 23					Green can.	
21175	- Buoy 24					Red nun.	Maintained from Apr. 21 to Nov. 21.
21180	- Buoy 25					Green can.	Maintained from Apr. 21 to Nov. 21.
21185	- <i>Lighted Buoy 26</i>	44 51 35 N 87 24 09 W	<b>FI R</b> 4s		3	Red.	Replaced by nun from Nov. 21 to Apr. 21.
21190	- LIGHT 27	44 51 36 N 87 24 18 W	<b>FI G</b> 4s	29 9	5	SG on post.	Higher intensity beam up and downstream.
21195	- Buoy 28					Red nun.	
21200	- Buoy 29					Green can.	
21205	- ENTRANCE LEADING LIGHT	44 52 06 N 87 24 54 W	<b>F Y</b>	36 11		KRW on cylindrical tower.	
21206	- <i>Lighted Buoy 30</i>	44 52 33 N 87 24 48 W	<b>Q R</b>		3	Red.	Replaced by nun from Apr. 21 to Nov. 21.
21210	- Buoy 31 Marks east side of shoal.					Green can.	Maintained from Apr. 21 to Nov. 21.
21215	- <i>Lighted Buoy 32</i>	44 52 44 N 87 24 49 W	<b>FI R</b> 2.5s		3	Red.	Replaced by nun from Nov. 21 to Apr. 21.
21217	DOOR COUNTY PARK LT 1	44 54 15 N 87 24 23 W	<b>FI G</b> 4s				Maintained from Apr 01 to Nov 30. Private aid.
21218	DOOR COUNTY PARK LT 2	44 54 15 N 87 24 21 W	<b>FI R</b> 4s				Maintained from Apr 01 to Nov 30. Private aid.
<b>LOWER GREEN BAY (Chart 14910)</b>							
21220	Whitefish Point Shoal Buoy 10 Marks southeast side of shoal.	44 51 57 N 87 11 27 W				Red nun.	
21225	Jacksonport Shoal Buoy 2	44 57 53 N 87 09 11 W				Red nun.	
<b>UPPER GREEN BAY (Chart 14909)</b>							
<b>Baileys Harbor</b>							
21230	- DIRECTIONAL LIGHT	45 04 12 N 87 07 12 W	<b>FI W</b> 2.5s	31 9		KRW on skeleton tower.	Higher intensity beam 340°.
21235	- <i>Entrance Lighted Bell Buoy</i>		<b>Mo (A) W</b>		6	Red and white stripes.	Maintained from Apr. 21 to Oct. 14.
21240	- Buoy 3					Green can.	
21245	- Buoy 2					Red nun.	
21250	BAILEYS YACHT CLUB BREAKWATER LIGHT		<b>Q R</b>	18 5		On post.	Maintained from Apr. 1 to Nov. 1. Private aid.
<b>UPPER GREEN BAY (Chart 14909)</b>							
21255	<b>Cana Island Light</b>	45 05 17 N 87 02 52 W	<b>F W</b>	83 25	17		Light operated throughout the year.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
21260	North Bay Entrance South Side Buoy 1					Green can.	
21265	North Bay Entrance North Side Buoy 2					Red nun.	
21270	Four-Foot Shoal Buoy 8 Marks south side of shoal.					Red nun.	
21273	Rowley Bay Buoy 1	45 10 21 N 87 01 24 W				Green can.	
<b>Rowley Bay</b>							
21275	- Buoy 2 Marks west side off Barkers Reef.					Red nun.	
21280	Spider Reef Buoy 6 Marks south side of reef.	45 11 34 N 86 58 05 W				Red nun.	
21285	- East Entrance Buoy 2A Marks shoal.	45 11 39 N 96 59 40 W				Red nun.	
21290	- Buoy 3 Marks east side of shoal.	45 11 36 N 87 01 36 W				Green can.	
21295	- Buoy 4 Marks south side of shoal.					Red nun.	
<b>Porte Des Morts Passage</b>							
21300	<i>Porte Des Morts Entrance Lighted Bell Buoy</i>	45 13 53 N 86 53 54 W	<b>Mo (A) W</b>			6 Red and white stripes.	Maintained from Apr. 21 to Nov. 14.
21305	PLUM ISLAND RANGE FRONT LIGHT	45 18 14 N 86 57 17 W	<b>Iso R 6s</b>	41 12	12	KRW on skeleton tower.	Directional light bearing 330.5°. Lighted throughout 24 hours.
21310	PLUM ISLAND RANGE REAR LIGHT 1,650 feet, 330° from front light.	45 18 28 N 86 57 28 W	<b>F R</b>	80 24	14	KRW on white cylindrical tower. 65	Lighted throughout 24 hours.
21320	- Outer Shoal Buoy 1 Marks east side of shoal.	45 13 58 N 86 55 29 W				Green can.	Maintained from Apr. 21 to Dec. 1.
21325	<b>Pilot Island Light</b>	45 17 06 N 86 55 12 W	<b>Fl (2) W 6s</b> 1s fl 1s ec. 1s fl 3s ec.	48 15	12	Yellow square tower with red roofs attached to dwelling. 41	
21330	Nine-Foot Shoal Buoy 3 Marks east side of shoal.	45 16 33 N 86 57 04 W				Green can.	
21335	<i>Waverly Shoal Lighted Bell Buoy 5</i> Marks northeast side of shoal.	45 17 07 N 86 56 43 W	<b>Fl G 2.5s</b>		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
21337	- NORTHPORT HARBOR BREAKWATER LIGHT 1	45 17 30 N 86 58 36 W	<b>Fl G 2.5s</b>	20 6		SG on blue pole.	Private aid.
21338	- NORTHPORT HARBOR BREAKWATER LIGHT 2		<b>Fl R 2.5s</b>	20 6		TR on blue pole.	Private aid.
<b>Detroit Island Passage</b>							
21340	- Buoy 2 Marks southwest side of shoal.					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
21345	<i>Plum Island Lighted Buoy 1</i> Marks northeast side of shoal.	45 19 18 N 86 56 44 W	<b>FI G</b> 2.5s		5	Green.	Replaced by can from Nov. 7 to Apr. 21.
<b>Detroit Harbor</b>							
21350	- ENTRANCE LIGHT	45 19 54 N 86 56 12 W	<b>FI W</b> 4s	25 8	8	SG on skeleton tower.	HORN: 1 blast ev 10s. Operates by clicking the Mike 5 times within 5 seconds on VHF-FM Ch. 79 to activate, 7 times within 5 seconds to deactivate. Signal automatically deactivates in 45 minutes. Ra ref.
21354	<i>Channel Lighted Buoy 2A</i>	45 19 55 N 86 56 09 W	<b>FI R</b> 2.5s		3	Red.	Maintained from 7 May to Nov. 21.
21355	- Channel Buoy 2	45 20 04 N 86 56 08 W				Red nun.	
21360	- <i>Channel Lighted Buoy 4</i>	45 20 13 N 86 56 07 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to May 07.
21365	- Channel Buoy 5	45 20 17 N 86 56 11 W				Green can.	
21370	- Channel Buoy 6					Red nun.	
21375	- Channel Buoy 8					Red nun.	
21380	- Channel Buoy 9					Green can.	
21385	- Channel Buoy 11	45 20 25 N 86 56 09 W				Green can.	
<b>Shipyards Marina</b>							
21390	- <i>Lighted Buoy 2</i>	45 20 30 N 86 55 42 W	<b>FI R</b> 3s			Red.	Maintained from May 15 to Oct. 15. Private aid.
21395	- <i>Lighted Buoy 4</i>		<b>FI R</b> 3s			Red.	Maintained from May 15 to Oct. 15. Private aid.
21400	- <i>Lighted Buoy 6</i>		<b>FI R</b> 3s			Red.	Maintained from May 15 to Oct. 15. Private aid.
21405	- NORTH DOCK LIGHT	45 20 24 N 86 54 36 W	<b>FI G</b> 2.5s	10 3		SG on post.	Maintained from May 15 to Oct. 15. Private aid.
21410	- SOUTH DOCK LIGHT	45 20 24 N 86 54 36 W	<b>FI R</b> 2.5s	10 3		TR on post.	Maintained from May 15 to Oct. 15. Private aid.
<b>UPPER GREEN BAY (Chart 14909)</b>							
21415	Njord Heim Channel Buoy					Red spar.	Maintained from May 1 to Nov. 1. Private aid.
21420	<i>Fisherman Shoal Lighted Bell Buoy 6</i> Marks southeast side of shoal.	45 21 33 N 86 46 13 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Nov. 21 to Apr. 21.
<b>Rock Island Passage</b>							
21425	POTTAWATOMIE LIGHT	45 25 42 N 86 49 42 W	<b>FI W</b> 4s	159 48	7	On square tower attached to dwelling. 41	Light is obscured from 275° to 020° by dense foliage on Rock Island.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LAKE MICHIGAN</b>							
21435	<i>St. Martin Island Shoals Lighted Buoy 2</i> Marks south side of shoal.	45 26 36 N 86 45 07 W	<b>FI R</b> 2.5s		4	Red.	Maintained from Apr. 21 to Nov. 14.
21440	St. Martin Shoal Buoy 4 Marks southwest side of shoal.	45 26 39 N 86 46 27 W				Red nun.	Maintained from Apr. 21 to Nov. 21.
<b>UPPER GREEN BAY (Chart 14909)</b>							
21445	<i>Little Gull Island Lighted Bell Buoy 2</i>	45 29 30 N 86 42 54 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 21 to Oct. 14.
21450	<b>St. Martin Island Light</b>	45 30 18 N 86 45 30 W	<b>Al W R</b> 10s W fl 5s ec. R fl 5s ec.	84 26	W 18 R 15	On hexagonal tower. 75	Light visible from 135° to 355°, dark sector covering island.
21455	Gravelly Island Shoal Buoy 4 Marks west side of shoal.					Red nun.	
21465	SUMMER ISLAND LIGHT	45 34 18 N 86 37 42 W	<b>FI W</b> 4s	38 12	6	NR on skeleton tower.	
21470	<i>Wiggins Point Shoal Lighted Bell Buoy 4</i> Marks southeast side of shoal.	45 50 27 N 86 16 53 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.
<b>DUTCH JOHNS POINT TO FISHERY POINT (Chart 14908)</b>							
<b>Manistique</b>							
21475	- LIGHT	45 56 42 N 86 14 48 W	<b>Iso R</b> 6s	50 15	7	On tower.	HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
21480	- WEST BREAKWATER LIGHT		<b>FI G</b> 4s	26 8	4	SG on post.	
21485	- WEST PIERHEAD LIGHT		<b>FI G</b> 2.5s	23 7	4	SG on post.	
<b>WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)</b>							
21490	<b>Seul Choix Point Light</b>	45 55 18 N 85 54 42 W	<b>FI W</b> 6s	80 24	26	White conical tower connected to red dwelling.	
<b>Port Inland</b>							
21495	- <i>Lighted Bell Buoy 2</i>	45 54 19 N 85 52 40 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 21 to Nov. 14.
21500	- LIGHT	45 57 48 N 85 52 36 W	<b>FI R</b> 5s	48 15	7	On skeleton tower.	Maintained from Apr. 15 to Dec. 15. Private aid. HORN: 1 blast ev 12s (2s bl).
21505	- OUTER RANGE FRONT LIGHT	45 58 06 N 85 52 36 W	<b>F R</b>	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.		<b>F R</b>	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 12 N 85 52 12 W	<b>F R</b>	27 8		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.		<b>F R</b>	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
<b>LAKE MICHIGAN</b>							
<b>WAUGOSHANCE POINT TO SEUL CHOIX POINT (Chart 14911)</b>							
21525	<i>Boulder Reef Lighted Bell Buoy 1</i>	45 35 14 N 85 58 55 W	<b>FI G</b> 4s		5	Green.	Replaced by can from Dec. 1 to Apr. 21.
21530	<b>Gull Island Light</b>	45 42 41 N 85 50 33 W	<b>FI W</b> 6s	77 23	9	NR on skeleton tower. 73	
21535	<b>Lansing Shoals Light</b>	45 54 12 N 85 33 42 W	<b>FI W</b> 10s	69 21	15	Gray square tower on concrete crib. 59	RACON: Y (- • - -) HORN: 1 blast ev 30s (3s bl). Operates year round.
21540	<i>Garden Island Shoal Lighted Bell Buoy 1</i> Marks northeast side of shoal.	45 52 06 N 85 28 26 W	<b>FI G</b> 4s		4	Green.	Replaced by can from Nov. 14 to Apr. 21.
21545	Trout Island Shoal Buoy 5 Marks west side of shoal.					Green can.	
21550	Whiskey Island Shoal Buoy 6 Marks south side of shoal.					Red nun.	
21555	Whiskey Island Shoal Buoy 4 Marks south side of shoal.	45 48 08 N 85 35 31 W				Red nun.	
21560	Squaw Island Shoal Buoy 2 Marks east side of shoal.					Red nun.	
21565	Squaw Island Shoal Buoy 1 Marks north side of shoal.					Green can.	
21570	Potter Reef Buoy 1 Marks northeast side of reef.					Green can.	
21575	Millecoquins Inner Reef Buoy 2 Marks west side of reef.					Red nun.	
21580	<b>NAUBINWAY ISLAND LIGHT</b>	46 04 30 N 85 26 42 W	<b>FI W</b> 4s	32 10	6	White cylindrical tower.	
<b>GREEN BAY</b>							
<b>DUTCH JOHNS POINT TO FISHERY POINT (Chart 14908)</b>							
<b>Big Bay De Noc</b>							
21590	<i>Fayette Lighted Bell Buoy 2</i> Marks west side of shoal.	45 43 21 N 86 40 21 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 28 to Oct 14.
21591	LITTLE FISHDAM RIVER ACCESS LIGHT		<b>FI Y</b> 4s			On post.	Maintained from Apr. 28 to Nov. 1. Private aid.
21592	- OGONTZ BAY BOAT LAUNCH LIGHT		<b>FI Y</b> 15s	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 N 86 42 18 W				Green can.	
21600	<i>Drisco Shoal Lighted Bell Buoy 2</i> Marks south side of shoal.	45 33 19 N 86 57 33 W	<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Nov. 21 to Apr. 28.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
21605	<i>Southwest Drisco Shoal Lighted Buoy DA</i>	45 32 10 N 87 00 36 W	<b>FI (2) W</b> 5s		5	Black with red band and two top marks.	Replaced by can from Nov. 21 Apr. 28.
21610	<b>Minneapolis Shoal Light</b>	45 34 54 N 86 59 54 W	<b>FI W</b> 5s	82 25	16	On white square tower with red stripe.	RACON: M(— —) HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
21615	Corona Shoal Buoy 4 Marks southwest side of shoal.	45 36 42 N 86 57 45 W				Red nun.	Maintained from Apr. 28 to Nov. 21.
21620	<i>Ford River Shoal Lighted Buoy 5</i> Marks southeast side of shoal.	45 38 33 N 87 03 40 W	<b>FI G</b> 4s		4	Green.	Maintained from Apr. 28 to Nov. 21.
21621	FORD RIVER BOAT LAUNCH LIGHT		<b>FI Y</b> 4s			On post.	Maintained from May 1 to Nov. 1. Private aid.
21625	<i>Eleven Foot Shoal Lighted Bell Buoy 6</i>	45 38 04 N 86 59 16 W	<b>FI R</b> 6s		5	Red.	Replaced by nun from Nov. 21 to Apr. 28.
<b>LITTLE BAY DE NOC (Chart 14915)</b>							
<b>Little Bay De Noc</b>							
21630	- <i>Lighted Buoy 8</i> Marks shoal.	45 43 46 N 87 01 31 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 28 to Nov. 21.
21631	Escanaba Harbor Daybeacon 1					SG on post.	Private aid.
21632	ESCANABA YACHT HARBOR NORTH PIERHEAD LIGHT 2		<b>F R</b>	30 9		TR on post.	Private aid.
21635	<b>Escanaba Light</b> Marks shoal.	45 44 48 N 87 02 13 W	<b>Iso W</b> 6s	45 14	15	White square tower with green stripe on crib.	HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
21645	Escanaba Buoy 1 Marks north side of obstruction.	45 44 50 N 87 02 39 W				Green can.	
21646	Basic Marine Inc. Buoy 1	45 44 54 N 87 03 06 W				Green can.	Maintained from Apr. 15 to Dec. 1. Private aid.
21647	Basic Marine Inc. Buoy 2					Red nun.	Maintained from Apr. 15 to Dec. 1. Private aid.
21650	- <i>Shoal Lighted Buoy 10</i> Marks southwest side of shoal.	45 45 31 N 87 01 22 W	<b>FI R</b> 4s		4	Red.	Maintained from Apr. 28 to Nov. 21.
21655	C & N ORE DOCK LIGHT 4		<b>F R</b>	8 2			Maintained from May 1 to Jan. 1. Private aid.
21660	C & N Ore Dock Buoy 1					Green can.	Maintained from May 1 to Jan. 1. Private aid.
21665	C & N Ore Dock Buoy 2					Red nun.	Maintained from May 1 to Jan. 1. Private aid.
21670	Vinette Co. Buoy 2 Marks submerged piling.					Red nun.	Maintained from Apr. 15 to Oct. 31. Private aid.
21675	Vinette Co. Buoy 4 Marks submerged piling.					Red nun.	Maintained from Apr. 15 to Oct. 31. Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
21680	Vinette Co. Buoy 6 Marks submerged piling.					Red nun.	Maintained from Apr. 15 to Oct. 31. Private aid.
21681	ESCANABA RIVER BOAT ACCESS LIGHT		<b>FI Y 4s</b>			On post.	Maintained from May 1 to Nov. 1. Private aid.
21682	Escanaba River Buoy 1	45 46 34 N 87 03 21 W	<b>FI G 4s</b>			Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.1	Escanaba River Buoy 2	45 46 35 N 87 03 19 W	<b>FI R 4s</b>			Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21682.2	Escanaba River Buoy 3					Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.3	Escanaba River Buoy 4					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21682.4	Escanaba River Buoy 5					Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.5	Escanaba River Buoy 6					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21682.6	Escanaba River Buoy 7					Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.7	Escanaba River Buoy 8					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21682.8	Escanaba River Buoy 9					Green can.	Maintained from May 1 to Nov. 15. Private aid.
21682.9	Escanaba River Buoy 10					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21683	Escanaba River Buoy 11					Green can.	Maintained from May 1 to Nov. 15. Private aid.
21683.1	Escanaba River Buoy 12					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21683.2	Escanaba River Buoy 13					Green can.	Maintained from May 1 to Nov. 15. Private aid.
21683.3	Escanaba River Buoy 14					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21683.4	Escanaba River Buoy 16					Red nun.	Maintained from May 1 to Nov. 15. Private aid.
21685	- <i>Lighted Traffic Buoy</i>	45 48 15 N 87 02 23 W	<b>Mo (A) W</b>		6	Red and white stripes.	Maintained from Apr. 28 to Nov. 21.
21690	<i>Squaw Point Lighted Buoy 12</i>	45 49 55 N 87 00 26 W	<b>FI R 6s</b>		5	Red.	Maintained from Apr. 28 to Nov. 21.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
<b>Gladstone</b>							
<i>Buoys maintained from May 15 to Oct. 15.</i>							
21695	- BREAKWATER LIGHT		<b>FI G 2.5s</b>	20 <b>6</b>		On pile.	Private aid.
21700	- Entrance Buoy 1					Green can.	Private aid.
21705	- Entrance Buoy 2					Red.	Private aid.
21710	- Entrance Buoy 3					Green can.	Private aid.
21715	- Entrance Buoy 4					Red.	Private aid.
21720	- Entrance Buoy 5					Green can.	Private aid.
21725	- Entrance Buoy 6					Red.	Private aid.
<b>Little Bay De Noc</b>							
21730	Saunders Point Buoy 13	45 50 53 N 86 59 45 W				Green can.	
21735	SAUNDERS POINT LIGHT	45 50 54 N 87 00 00 W	<b>Iso G 6s</b>	28 <b>9</b>	6	SG on column.	
21740	Saunders Point Shoal Inside Buoy 15 Marks north side of shoal.	45 51 06 N 86 59 57 W				Green can.	
21741	- HUNTERS POINT BOAT LAUNCH LIGHT		<b>FI Y 15s</b>	20 <b>6</b>		On post.	Maintained from Apr. 15 to Oct. 30. Private aid.
21742	Butler Island Channel Buoy 1	45 51 53 N 87 00 33 W	<b>Q G</b>	3 <b>1</b>		Green can.	Maintained from May 1 to Nov. 15. Private aid.
21742.1	Butler Island Channel Buoy 2	45 51 55 N 87 00 40 W				Red nun.	Maintained from May 1 to Nov. 15.
21742.2	Butler Island Channel Buoy 3	45 51 45 N 87 00 55 W				Green can.	Maintained from May 1 to Nov. 15.
21742.3	Butler Island Channel Buoy 4	45 51 47 N 87 01 01 W				Red nun.	Maintained from May 1 to Nov. 15.
21743	<i>Butler Island Lighted Buoy 17</i>	45 51 53 N 87 00 33 W	<b>FI G 4s</b>		3	Green can.	Maintained from May 1 to Nov. 15.
21746	<i>Days River Shoal Lighted Buoy 19</i>	45 53 09 N 86 58 32 W	<b>FI G 2.5s</b>		3	Green can.	Maintained from May 1 to Nov. 15.
<b>UPPER GREEN BAY (Chart 14909)</b>							
21760	JACKSON HARBOR LIGHT	45 24 12 N 86 51 00 W	<b>FI R 4s</b>	20 <b>6</b>	7	TR on pile.	
21765	Jackson Harbor Buoy 1					Green can.	Buoy may be relocated without prior notice to mark best channel.
21766	Jackson Harbor Buoy 2					Red nun.	Buoy may be relocated without prior notice to mark best channel.
21770	BOYER BLUFF LIGHT	45 25 12 N 86 56 12 W	<b>FI W 6s</b>	220 <b>67</b>	8	On skeleton tower. 80	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
21775	<i>Whaleback Shoal East End Lighted Bell Buoy 4</i> Marks southeast side of shoal.	45 21 01 N 87 10 12 W	<b>FI R</b> 6s		5	Red.	Replaced by nun from Dec. 1 to Apr. 21.
21780	Whaleback Shoal West End Buoy 1 Marks northwest side of shoal.					Green can.	
21785	CEDAR RIVER PIERHEAD LIGHT	45 24 30 N 87 21 00 W	<b>FI G</b> 4s	26 8	6	SG on skeleton tower.	
21787	CEDAR RIVER LIGHT 2	45 24 30 N 87 21 00 W	<b>FI R</b> 4s	20 6	4	TR on pole.	
21790	Cedar River Entrance Buoy 1 Marks rock.	45 23 44 N 87 20 29 W				Green can.	
21791	Cedar River Buoy 2A	45 24 20 N 87 20 59 W				Red nun.	Maintained from May 15 to Nov. 15.
21792	Cedar River Buoy 2B	45 24 24 N 87 21 01 W				Red nun.	Maintained from May 15 to Nov. 15.
21793	Cedar River Buoy 3	45 24 19 N 87 21 02 W				Green can.	Maintained from May 15 to Nov. 15.
21794	Cedar River Buoy 5	45 24 22 N 87 21 03 W				Green can.	Maintained from May 15 to Nov. 15.
21795	Sister Islands Buoy 1					Green can.	
21797	Yacht Works Marina West Breakwall Light "A"	45 12 12 N 87 07 16 W	<b>FI W</b> 4s	22 7	3	NB.	Private aid.
21798	Yacht Works Marina Breakwall Light "1"	45 12 08 N 87 07 15 W	<b>FI G</b> 2.5s	27 8		SG on pile.	Private aid.
21799	Yacht Works Marina Breakwall Light "2"	45 12 08 N 87 07 14 W	<b>FI R</b> 2.5s	31 9		TR on pile.	Private aid.
21800	SISTER BAY MARINA LIGHT 1	45 11 54 N 87 07 12 W	<b>FI G</b> 4s	20 6		SG on post.	Private aid.
21802	SISTER BAY RESORT AND YACHT CLUB LIGHT	45 11 24 N 87 07 24 W	<b>FI R</b> 2s	5 2		On post.	Maintained from May 1 to Nov. 1. Private aid.
21805	<i>Horseshoe Reef Lighted Buoy 2</i> Marks southeast side of reef.	45 13 00 N 87 11 54 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Oct. 14 to May 1.
21810	Sister Shoals Buoy 3					Green can.	
21815	HORSESHOE ISLAND LIGHT	45 10 36 N 87 12 42 W	<b>FI G</b> 4s	33 10	4	NB on post.	
<b>Strawberry Channel</b>							
21820	- Northeast Buoy 4 Marks east side of shoal.					Red nun.	
21825	EAGLE BLUFF LIGHT	45 10 06 N 87 14 12 W	<b>FI W</b> 6s	75 23	7	Yellow square tower with brown roof attached to dwelling. 43	Light is obscured from 220° to 030°.
21830	<i>Strawberry Channel Southeast Lighted Bell Buoy 6</i>	45 09 03 N 87 15 00 W	<b>FI R</b> 4s		3	Red.	No winter mark from Oct. 14 to May 1.
21835	- Mid-Channel Mark Lighted Buoy S	45 08 33 N 87 16 22 W	<b>FI (2+1) R</b> 6s			Red and green bands.	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
<b>GREEN BAY</b>							
21845	Hanover Shoal Buoy 2 Marks southeast side of shoal.	45 08 34 N 87 17 42 W				Red nun.	Replaced by smaller nun from Oct. 14 to Apr. 1.
21850	HAT ISLAND SOUTH SHOAL BUOY HI	45 05 17 N 87 19 24 W				Black can with red band. Topmark spheres.	Replaced by smaller can from Oct. 14 to Apr 21.
21855	<i>Anchorage Cove Lighted Buoy 1</i>	45 04 06 N 87 16 54 W	<b>Q G</b>			Green.	Maintained from May 1 to Oct. 30. Private aid.
21860	<i>Anchorage Cove Lighted Buoy 2</i>		<b>Q R</b>			Red.	Maintained from May 1 to Oct. 30. Private aid.
21865	Anchorage Cove Buoy 3					Green can.	Maintained from May 1 to Oct. 30. Private aid.
21870	Anchorage Cove Buoy 4					Red nun.	Maintained from May 1 to Oct. 30. Private aid.
21875	LILLA HAMMAR LIGHT 1	45 04 06 N 87 16 48 W	<b>F G</b>	12 4		SG on post.	Maintained from Jun. 15 to Sep. 15. Private aid.
21880	LILLA HAMMAR LIGHT 2		<b>F R</b>	12 4		TR on post.	Maintained from Jun. 15 to Sep. 15. Private aid.
21885	LILLA HAMMAR ENTRANCE LIGHT		<b>F W</b>	9 3		On post.	Maintained from Jun. 15 to Sep. 15. Private aid.
21890	<i>Chambers Island North Shoal Lighted Bell Buoy 1</i>	45 14 24 N 87 19 48 W	<b>FIG 4s</b>		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
21895	<b>Chambers Island Light</b>	45 12 06 N 87 21 54 W	<b>FI W 6s</b>	97 30	10	On skeleton tower. 67	
21900	<i>Chambers Island West Shoal Lighted Bell Buoy 3</i>	45 10 48 N 87 24 23 W	<b>FIG 2.5s</b>		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
<b>MENOMINEE AND MARINETTE HARBORS (Chart 14917)</b>							
<b>Menominee</b>							
21905	- MARINA BREAKWATER LIGHT 2	45 06 24 N 87 36 00 W	<b>FIR 4s</b>	40 12		TR on post.	Private aid.
21910	- Marina Breakwater Daybeacon 3			14 4		SG on post.	Private aid.
21915	- <i>Shoal Lighted Bell Buoy 2A</i> Marks east side of shoal.	45 06 20 N 87 34 26 W	<b>FIR 4s</b>		4	Red.	Replaced by nun from Nov. 14 to Apr. 21.
21920	- Entrance Buoy 1 Marks shoal.					Green can.	
21925	- Entrance Buoy 2 Marks shoal.	45 06 00 N 87 34 41 W				Red nun.	
21930	MARINETTE PIERHEAD LIGHT 3		<b>FIG 4s</b>	25 8	4	SG on post.	
21935	PIERHEAD LIGHT 4	45 05 48 N 87 35 12 W	<b>Oc R 4s</b>	46 14	9	Red octagonal tower on square concrete base.	
21940	- <b>Pier Light 6</b>		<b>F R</b>	59 18	12	On red skeleton tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
21945	- River Buoy 2					Red nun.	Maintained from May 7 to Nov. 7.
21950	- River Buoy 4					Red nun.	Maintained from May 7 to Nov. 7.
21955	- River Buoy 6					Red nun.	Maintained from May 7 to Nov. 7.
21957	- River Buoy 7 Marks shoal.					Green can.	Maintained from May 7 to Nov. 7.
21960	Menekaunee Shoal Buoy 6 Marks east side of shoal.	45 04 15 N 87 34 03 W				Red nun.	
<b>UPPER GREEN BAY (Chart 14909)</b>							
21965	<i>Green Island Shoal Lighted Buoy 1</i>	45 03 36 N 87 31 30 W	<b>FI G 4s</b>			Green.	Replaced by can from Nov. 14 to Apr. 21. Marks west side of shoal.
21970	<b>Green Island Light</b>	45 03 18 N 87 29 30 W	<b>FI W 6s</b>	80 24	10	NR on skeleton tower. 65	
21975	Green Island Southeast Shoal Buoy 2	45 02 41 N 87 28 51 W				Red nun.	Maintained from Apr. 28 to Nov. 14.
21980	MARINETTE LITTLE RIVER LIGHT	45 02 42 N 87 37 30 W	<b>FI Y 2.5s</b>	28 9		NY on post.	Private aid.
<b>LOWER GREEN BAY (Chart 14910)</b>							
21985	Monument Shoal Buoy 5 Marks west side of shoal.	44 59 34 N 87 22 57 W				Green can.	
21990	PESHTIGO REEF LIGHT Marks southeast side of shoal.	44 57 24 N 87 34 48 W	<b>FI W 6s</b>	72 22	9	On white column with red band.	HORN: 1 blast ev 30s (3s bl). Operates from May 1 to Oct. 20.
21995	<i>Sherwood Point Lighted Buoy 7</i> Marks north side of shoal.	44 54 53 N 87 27 42 W	<b>FI G 4s</b>		4	Green.	Replaced by can from Nov. 14 to Apr. 21.
22000	<b>Sherwood Point Light</b>	44 53 36 N 87 26 00 W	<b>Iso W 6s</b>	61 19	15	White square tower, dwelling attached. 35	
22005	<i>Sherwood Point Traffic Lighted Bell Buoy</i>	44 53 34 N 87 24 51 W	<b>Mo (A) W</b>		6	Red and white stripes.	Maintained from Apr. 21 to Nov. 21.
<b>Little Sturgeon</b>							
<i>Buoys maintained from May 15 to Oct. 15.</i>							
22012.1	- Buoy 1	46 50 36 N 87 32 48 W				Green can.	Private aid.
22012.2	- Buoy 2	46 50 38 N 87 32 54 W				Red nun.	Private aid.
22012.3	- Buoy 3					Green can.	Private aid.
22012.4	- Buoy 4					Red nun.	Private aid.
22012.5	- Buoy 5					Green can.	Private aid.
22012.6	- Buoy 6					Red nun.	Private aid.
22012.7	- Buoy 7					Green can.	Private aid.
22012.8	- Buoy 8					Red nun.	Private aid.
22012.9	- Buoy 9					Green can.	Private aid.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
22013	- Buoy 10					Red nun.	Private aid.
22013.1	- Buoy 11					Green can.	Private aid.
22013.2	- Buoy 12					Red nun.	Private aid.
22013.5	Carmody County Navigation Light		<b>FIG 3s</b>			On single pole.	Maintained from Apr. 1 to Sept. 30. Private aid.
22014	<i>Oconto Harbor Lighted Bell Buoy 2</i>	44 53 00 N 87 46 00 W	<b>FIR 4s</b>		4	Red.	Replaced by nun from Oct. 14 to May 01.
22015	OCONTO HARBOR NORTH PIERHEAD LIGHT 2	44 53 54 N 87 49 18 W	<b>FR</b>	40 12	5	TR on pile.	Maintained from Apr. 15 to Nov. 1. Private aid.
22020	OCONTO HARBOR SOUTH PIERHEAD LIGHT 3	44 53 54 N 87 49 18 W	<b>FIG 6s</b>	20 6	6	SG on post.	
22025	<i>Oconto River Lighted Buoy 4</i>		<b>QR</b>			Red.	Maintained from Apr. 15 to Nov. 1. Private aid.
22035	PENSAUKEE HARBOR LIGHT	44 49 18 N 87 53 54 W	<b>FIR 4s</b>	16 5	7	TR on column.	
22040	<i>Pensaukee Harbor Entrance Lighted Buoy 2</i>		<b>FIR 6s</b>		3	Red.	Maintained from May 7 to Nov. 1. Buoy may be relocated without prior notice to mark the best channel.
<b>All Season's Marina</b>							
22050	BAY SHORE COUNTY PARK LIGHT		<b>FIR 4s</b>	15 5		On pile.	Private aid.
22055	<i>Saumico Lighted Buoy 1</i>	44 38 02 N 88 00 04 W	<b>FIG 4s</b>		3	Green.	Maintained from May 7 to Nov. 1. Buoy may be relocated without prior notice to mark the best channel.
22055.2	<i>Saumico Lighted Buoy 2</i>	44 38 02 N 88 00 07 W	<b>QR</b>			Red.	Maintained from May 1 to Oct. 31. Private aid.
22055.3	<i>Saumico Lighted Buoy 3</i>	44 37 56 N 88 00 12 W	<b>QG</b>			Green.	Maintained from May 1 to Oct. 31. Private aid.
22055.4	<i>Saumico Lighted Buoy 4</i>	44 37 57 N 88 00 11 W	<b>QR</b>			Red.	Maintained from May 1 to Oct. 31. Private aid.
22055.5	<i>Saumico Lighted Buoy 5</i>	44 37 52 N 88 00 18 W	<b>QG</b>			Green.	Maintained from May 1 to Oct. 31. Private aid.
22055.6	<i>Saumico Lighted Buoy 6</i>	44 37 53 N 88 00 19 W	<b>QR</b>			Red.	Maintained from May 1 to Oct. 31. Private aid.
22055.7	<i>Saumico Lighted Buoy 7</i>	44 37 48 N 88 00 24 W	<b>QG</b>			Green.	Maintained from May 1 to Oct. 31. Private aid.
22060	<i>Saumico Lighted Buoy 8</i>		<b>FIR 4s</b>		3	Red.	Maintained from May 7 to Nov. 1. Buoy may be relocated without prior notice to mark the best channel.
22065	<i>Saumico Lighted Buoy 9</i>	44 37 49 N 88 00 28 W	<b>QG</b>			Green.	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
<b>GREEN BAY</b>							
22066	Saumico Lighted Buoy 10	44 37 50 N 88 00 28 W	<b>Q R</b>			Red.	Maintained from May 1 to Oct. 31. Private aid.
22070	Suamico River Obstruction Buoy	44 37 51 N 88 00 32 W				White with orange bands.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>Pirates Cove Marina</b>							
<i>Buoys maintained from May 1 to Oct. 15.</i>							
22075	- Lighted Buoy 1	44 35 24 N 87 59 36 W	<b>FI G 2.5s</b>			Green.	Private aid.
22080	- Lighted Buoy 2		<b>FI R 2.5s</b>			Red.	Private aid.
22085	- Buoy 3					Green can.	Private aid.
22090	- Buoy 4					Red nun.	Private aid.
22095	- Buoy 5					Green can.	Private aid.
22100	- Buoy 6					Red nun.	Private aid.
22100.1	- Buoy 7					Green can.	Private aid.
22100.2	- Buoy 8					Red nun.	Private aid.
22100.3	- Buoy 9					Green can.	Private aid.
22100.4	- Buoy 10					Red nun.	Private aid.
<b>HEAD OF GREEN BAY (Chart 14918)</b>							
<b>Green Bay Harbor</b>							
<b>Green Bay Harbor Entrance Channel</b>							
<i>Lighted buoys maintained from Apr. 21 to Dec. 1, unless otherwise noted.</i>							
22105	- Lighted Buoy 1	44 40 36 N 87 52 36 W	<b>FI G 2.5s</b>		4	Green.	
22110	- Lighted Bell Buoy 2		<b>FI R 2.5s</b>		4	Red.	
22115	- Lighted Buoy 3		<b>FI G 4s</b>		4	Green.	
22120	- Lighted Buoy 4		<b>FI R 4s</b>		4	Red.	
22125	- Lighted Buoy 5		<b>FI G 6s</b>		4	Green.	
22130	<b>Green Bay Harbor Entrance Light</b>	44 39 12 N 87 54 06 W	<b>Oc R 4s</b>	72 22	12	White conical tower on cylindrical base.	Standby light of reduced intensity. Lighted throughout 24 hours. HORN: 1 blast ev 15s (2s bl). Maintained from Apr. 1 to Nov. 1.
22135	- Lighted Buoy 7		<b>FI G 2.5s</b>		4	Green.	
22140	- Lighted Buoy 8		<b>FI R 2.5s</b>		4	Red.	
22145	- Lighted Buoy 9	44 37 22 N 87 55 33 W	<b>FI G 4s</b>		4	Green.	Replaced by can from Dec. 1 to Apr. 21.
22150	- Lighted Buoy 10	44 37 24 N 87 55 42 W	<b>FI R 4s</b>		4	Red.	Replaced by nun from Dec. 1 to Apr. 21.
22155	- Lighted Bell Buoy 11		<b>FI G 4s</b>		4	Green.	
22160	- Lighted Buoy 12		<b>FI R 4s</b>		4	Red.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
22165	- LIGHT 14		<b>Q R</b>	40 12	5	White cylindrical tower with red band.	
22170	- Lighted Buoy 15	44 35 36 N 87 57 12 W	<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22175	- Lighted Bell Buoy 16	44 35 31 N 87 57 32 W	<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22180	- RANGE FRONT LIGHT	44 35 24 N 87 57 30 W	<b>Q G</b>	43 13		KRW on cylindrical tower.	
22181	- RANGE FRONT PASSING LIGHT		<b>FI Y</b> 4s	45 14	4	On same structure as Green Bay Harbor Entrance Channel Range Front Light.	Above Range Front Light.
22185	- RANGE REAR LIGHT 5,500 feet, 213° from front light.		<b>Oc G</b> 4s	88 27		KRW on white cylindrical tower.	
22186	- RANGE REAR PASSING LIGHT		<b>FI Y</b> 4s	91 28	4	On same structure as Green Bay Harbor Entrance Channel Range Rear Light.	Above Range Rear Light.
22188	- Green Bay Harbor Entrance Channel Lighted Buoy 15A	44 35 10 N 87 58 06 W	<b>FI G</b> 4s			Green.	Replaced by can from Dec. 1 to Apr. 28.
22189	- Green Bay Harbor Entrance Channel Lighted Buoy 16A	44 35 14 N 87 58 10 W	<b>FI R</b> 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22200	- Lighted Buoy 17	44 34 55 N 87 58 37 W	<b>Q G</b>		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22205	- LIGHT 18		<b>FI R</b> 2.5s	35 11	6	White cylindrical tower with red band.	
22210	- Lighted Buoy 19		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22215	- INNER RANGE FRONT LIGHT	44 34 48 N 87 59 00 W	<b>Q G</b>	29 9		KRW on cylindrical tower.	
22216	- INNER RANGE FRONT PASSING LIGHT		<b>FI Y</b> 4s	30 9	4	On same structure as Green Bay Harbor Entrance Channel Inner Range Front Light.	Above Inner Range Front Light.
22220	- INNER RANGE REAR LIGHT 2,500 feet, 237.5° from front light.		<b>Iso G</b> 6s	49 15		KRW on white cylindrical tower.	
22221	- INNER RANGE REAR PASSING LIGHT		<b>FI Y</b> 4s	50 15	4	On same structure as Green Bay Harbor Entrance Channel Inner Range Rear Light.	Above Inner Range Rear Light.
22225	- Lighted Buoy 22		<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22230	- Lighted Buoy 21		<b>FI G</b> 2.5s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22235	- Lighted Buoy 2		<b>FI R</b> 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22240	- Lighted Buoy 23		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.
22245	- LIGHT 25	44 33 30 N 87 59 36 W	<b>FI G</b> 2.5s	28 9	5	SG on post.	Higher intensity beam down channel.
22250	- Lighted Buoy 26		<b>FI R</b> 2.5s		4	Red.	Replaced by nun from Dec. 01 to Apr. 28.
22255	- Lighted Buoy 27		<b>FI G</b> 4s		4	Green.	Replaced by can from Dec. 1 to Apr. 28.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREEN BAY</b>							
22260	- Lighted Buoy 28		FI R 4s		4	Red.	Replaced by nun from Dec. 1 to Apr. 28.
22265	- Lighted Buoy 30		FI R 2.5s		4	Red.	Replaced by nun from Dec. 01 to Apr. 28.
<b>Green Bay Harbor</b>							
22270	GREEN BAY HARBOR DISPOSAL LIGHT	44 32 18 N 88 00 12 W	Q W		8 2	On dolphin.	Maintained from Apr. 15 to Nov. 15. Private aid.
<b>South Bay Marina</b>							
Lights maintained from Apr. 1 to Nov. 30.							
22271	- EAST BREAKWATER LIGHT	44 32 23 N 87 59 51 W	FI W 6s		11 3	On pile.	Private aid.
22271.1	- EAST MIDDLE BREAKWATER LIGHT	44 32 24 N 87 59 54 W	FI W 6s		11 3	On pile.	Private aid.
22271.2	- WEST MIDDLE BREAKWATER LIGHT	44 32 25 N 87 59 58 W	FI W 6s		11 3	On pile.	Private aid.
22271.3	- WEST BREAKWATER LIGHT	44 32 23 N 88 00 02 W	FI W 6s		11 3	On pile.	Private aid.
<b>Green Bay Harbor</b>							
22272	- ENTRANCE LIGHT 1	44 32 21 N 88 00 12 W	F G		11 3	SG on pile.	Private aid.
22273	- ENTRANCE LIGHT 2	44 32 20 N 88 00 12 W	F R		11 3	TR on pile.	Private aid.
<b>LOWER FOX RIVER AND LAKE WINNEBAGO</b>							
<b>LOWER FOX RIVER (Chart 14916)</b>							
<b>Green Bay City</b>							
<i>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.</i>							
22280	- Buoy 2					Red nun.	
22285	- Buoy 4					Red nun.	
22290	- Buoy 6					Red nun.	
22295	- Buoy 7					Green can.	
22300	- Buoy 8					Red nun.	
22305	- Buoy 10					Red nun.	
22310	- Buoy 12					Red nun.	
22315	- Buoy 13					Green can.	
22320	- Buoy 14					Red nun.	
22325	- Buoy 18					Red nun.	
22330	- Buoy 19					Green can.	
22335	- Buoy 20					Red nun.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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**LOWER FOX RIVER AND LAKE WINNEBAGO**

*Due to silting, all buoys in the Fox River and Lake Winnebago may be relocated without prior notice to mark the best channel.*

22345	- Buoy 22					Red nun.	Maintained from May 14 to Oct. 14.
22350	- Buoy 24					Red nun.	Maintained from May 14 to Oct. 14.
22355	- Buoy 26					Red nun.	Maintained from May 14 to Oct. 14.
22360	- Buoy 27					Green can.	Maintained from May 14 to Oct. 14.

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<b>Pere Marquette Lake</b>	18565
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PIGEON ISLAND LIGHT	2570
Pike Bay	14895
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<b>Pilgrim Point Leading Light</b>	14940
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<b>Port Bay</b>	2145
<b>Port Clinton</b>	5860
<b>Port Inland</b>	21495
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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
H2601		10	H2664		335	H2716		820	H2785		1325
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H2604		65	H2665.4		345	H2720		870	H2787		1340
H2606		70	H2666		360	H2720.1		875	H2788		1345
H2608		75	H2666.1		365	H2721		880	H2789		1360
H2616		105	H2669		495	H2721.1		885	H2790		1365
H2616.2		110	H2669.1		500	H2723		910	H2791		1370
H2616.4		115	H2670		390	H2723.4		955	H2791.4		1375
H2620		130	H2671		395	H2725		895	H2792		1380
H2621		135	H2672		400	H2742		1040	H2793		1390
H2622		140	H2673		415	H2744		1045	H2794		1400
H2623		145	H2674		515	H2746		1065	H2795		1405
H2624		150	H2674.1		520	H2747		1070	H2796		1410
H2626		160	H2675		485	H2748		1075	H2797		1420
H2626.2		165	H2677		510	H2750		1090	H2798		1425
H2628		170	H2679		425	H2751		1095	H2800		1430
H2629		175	H2679.1		430	H2754		1110	H2801		1445
H2630		180	H2680		530	H2754.1		1115	H2804		1465
H2631		185	H2681		535	H2756		1120	H2805		1470
H2631.2		190	H2682		580	H2760		1140	H2807		1505
H2634		210	H2682.1		585	H2764		1180	H2808		1515
H2635		215	H2692		595	H2766		1195	H2812		1550
H2637		220	H2693		600	H2768		1205	H2813		1560
H2638		225	H2693.1		605	H2769		1210	H2816		1570
H2642		245	H2706		705	H2770		1225	H2818		1605
H2643		250	H2706.1		710	H2771		1230	H2820		1610
H2644		255	H2707		725	H2774		1250	H2824		1655
H2645		260	H2707.1		730	H2775		1235	H2824.1		1660
H2646		265	H2709		745	H2778		1280	H2826		1635
H2648		270	H2709.4		810	H2779		1285	H2828		1670
H2649		275	H2709.41		815	H2780		1290	H2831		1705
H2653		290	H2710		765	H2782		1305	H2832		1700
H2661		320	H2710.4		770	H2783		1310			
H2662		325	H2712		780	H2784		1320			