

A copy of this List will be sent free of charge to any ship-master on application to the Office of the Light-House Board, Washington, D. C., or to the Offices of the Light-House Inspectors at Buffalo and Detroit.

LIST OF LIGHTS
IN THE
WATERS AND ON THE SHORES AND BANKS
OF THE
NORTHERN LAKES AND RIVERS
OF THE
UNITED STATES;
AND ALSO OF THE
CANADIAN LIGHTS IN THOSE WATERS.

CORRECTED TO JANUARY, 188⁵.

Number.	Name.	Location.	Latitude, north. Longitude, west.			Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in stat- ute miles.	
			°	'	"					
WHITEHALL NARROWS.	576 No. 1, Benjamin's Place.....	E. side of Narrows, Vt., about 2 miles from Whitehall.	43 34 57 73 25 18			Fixed white.....	West'n River lantern	18	9¼	
	577 No. 2, Carey's Camp.....	W. side of Narrows, N. Y., about three-fourths of a mile in northwesterly direction from No. 1.	43 35 25 73 25 54			Fixed white.....	West'n River lantern	18	9¼	
	578 No. 3, opposite Chapman's Dock.....	W. side of Narrows, N. Y., about 1 mile in northerly direction from No. 2.	43 36 (11) 73 25 (23)			Fixed white.....	West'n River lantern	15	9¼	
	579 No. 4, S. of Snoddy's Dock.....	E. side of Narrows, Vt., about five-eighths mile N. from No. 3.	43 36 (44) 73 25 (26)			Fixed white.....	West'n River lantern	15	9¼	
	580 No. 5, Steam-mill Point.....	W. side of Narrows, Dresden, N. Y., three-quarters of a mile in northerly direction from No. 4.	43 37 19 73 25 08			Fixed white.....	West'n River lantern	15	9¼	
	581 No. 6, Long Reach.....	W. side of Narrows, N. Y., half a mile in northerly direction from No. 5.	43 37 (42) 73 25 (24)			Fixed white.....	West'n River lantern	18	9¼	
	582 No. 7, Head of Two Channels.....	W. side of Main channel, Dresden, N. Y., five-eighths of a mile in northerly direction from No. 6.	43 38 (13) 73 25 (47)			Fixed white.....	West'n River lantern	18	9¼	
	583 No. 8, Maple Bend.....	W. side of Main channel, Dresden, N. Y., about 1 mile in a northeasterly direction from No. 7.	43 38 (53) 73 25 04			Fixed white.....	West'n River lantern	45	13	
	584 No. 9, Lower end of Two Channels.....	W. side of Main channel, Dresden, N. Y., one-half of a mile N. from No. 8.	43 39 17 73 24 59			Fixed white.....	West'n River lantern	18	9¼	
	585 No. 11, Chilson's Bend.....	W. side of Narrows, N. Y., 2¼ miles N. N. E. of No. 9.	43 41 08 73 24 76			Fixed white.....	West'n River lantern	18	9¼	
	586 No. 12, opposite Belden's Dock.....	E. side of Narrows, Vt., one-eighth of a mile N. of No. 11.	43 41 (18) 73 24 (18)			Fixed white.....	West'n River lantern	18	9¼	
	587 No. 13, above Pulpit Point.....	W. side of Narrows, Vt., one-fourth of a mile N.-N. E. of No. 12.	43 41 (30) 73 24 13			Fixed white.....	West'n River lantern	18	9¼	
	588 No. 15, lower end of Four Channels and Narrows.....	W. side of Main channel, N. Y., 1¼ miles N. E. of No. 13.	43 42 (47) 73 23 (07)			Fixed white.....	West'n River lantern	18	9¼	
	589 No. 16, Old Maid's Place.....	E. side of Narrows, Vt., 1 mile E. N. E. of No. 15.	43 43 (21) 73 22 (12)			Fixed white.....	West'n River lantern	18	9¼	
	LAKE CHAMPLAIN.	590 Crown Point.....	On Crown point, N. Y., W. side of Lake Champlain, near old fort.	44 01 48 73 25 19			Fixed white.....		5	85
		591 Barber's Point.....	On Bluff, 2½ miles S. of Westport, N. Y.....	44 09 17 73 24 17			Fixed white.....		5	83
592 Split Rock.....		Near Essex, N. Y., W. side of Lake Champlain.	44 16 07 73 19 21			Fixed white.....		4	100	
593 Juniper Island.....		On Juniper island, Vt., S. side of entrance to Burlington harbor.	44 20 00 73 16 36			Fixed white.....		4	93	
594 Burlington Beacon.....		One on each end of the breakwater at Burlington, Vt.....	44 28 (42) 73 13 37			Fixed red.....	West'n River lantern	26	11	
595 Burlington Beacon.....			44 28 23 73 13 32			Fixed red.....		6	33	
596 Colchester Reef.....		On Middle branch, off Colchester point, Vt.	44 33 19 73 19 47			Fixed red.....		6	51	
597 Bluff Point.....		On Bluff point, near the N. W. end of Valcour island, N. Y.	44 37 (23) 73 25 (54)			Fixed white.....		5	95	
598 Plattsburg Beacon.....		One on each end of the breakwater at Plattsburg, N. Y.....	44 41 37 73 26 27			Fixed white.....		6	32	
599 Plattsburg Beacon.....			44 41 43 73 26 20			Fixed white.....		6	32	
600 Cumberland Head.....	Near Plattsburg, N. Y., W. side of Lake Champlain.	44 41 31 73 23 09			Fixed white.....		4	55		

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
576	Movable black beacon, with a white "1" on side.		1856		
577	Movable red beacon, with a white "2" on side.		1856		
578	Red stake on a beacon foundation		1856		
579	Movable black stake on a beacon foundation <i>Mo on S. E. 23/5</i>		1856		
580	Movable red beacon, with a white "5" on side.		1856		
581	Movable red beacon, with a white "6" on side.		1856		
582	Movable beacon, with three horizontal bands; centre, black; upper and lower, red; a white "7" on side.		1856		
583	Light shown from a red mast on a movable beacon, with a white "8" on side.		1856		
584	Movable beacon, painted with three horizontal bands; centre, red; upper and lower, black, with a white "9" on side.		1856		
585	Movable red beacon, with a white "11" on side.		1856		
586	Movable black beacon, with a white "12" on side.		1856		
587	Movable black beacon, with a white "13" on side.		1856		
588	Movable beacon, painted in three horizontal bands, red and black, with a white "15" on side.		1856		
589	Movable black beacon, with a white "16" on side.		1869		
590	Tower of dark-blue limestone, connected with dwelling by a covered way.	53	1858		
591	Octagonal tower, dark-drab, surmounting the lake side of a blue limestone dwelling, with brown Mansard roof.	36	1873		
592	Dark-blue limestone tower, connected with dwelling by a covered way.	39	1838		The channel between Split Rock and opposite shore is about three-fourths of a mile wide.
593	White tower, connected with a brick dwelling by a covered way.	25	1846	Bell struck by machinery every 15 sec.	
594	Stake placed on the completed northern extremity of the breakwater.		1857		When the breakwater is finally completed the light will be shown at the end.
595	White beacon, on S. end of breakwater; dwelling on the breakwater, midway between the beacons.	25			
596	Drab octagonal tower, surmounted by a black lantern, and connected with a Mansard-roofed dwelling.	35	1871		The light-house may be passed on either side, but it is recommended that it be passed by the westward channel at a distance of at least 200 feet. Juniper Island light-house bears S. 2/4 E., distant 3/4 miles.
597	Dwelling of dark-blue limestone, with Mansard roof, surmounted by tower.	36	1874		
598	White beacon on breakwater extension	27	1867		
599	Beacon on breakwater extension	27			
600	Tower and dwelling of dark-blue limestone, connected by a covered way.	50	1837		

THIRD DISTRICT.

NEW YORK AND VERMONT.

Number.	Name.	Location.	Latitude, north. Longitude, west.	Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in statute miles.
511	LAKE CHAMPLAIN. Pointe aux Roches	On the shore at Pointe aux Roches, N. Y., in Lake Champlain, opposite the south- ernmost point of Isle la Motte.	44 47 59	Fixed white.....	6	54	13
			73 21 40				
602	Isle la Motte	On N. end of Isle la Motte, Vt.....	44 54 25 73 20 38	Fixed white.....	6	46	13
603	Windmill Point.....	On Windmill point, Vt., opposite Rouse's point, N. Y., near the railroad bridge.	44 58 55 73 20 32	Fixed white.....	6	52	13
604	LAKE MICHIGAN. Newport Wharf Beacon.....	On the steamboat wharf at Newport, Vt.....	44 (55) (00)	Fixed red.....	West'n River lantern	30	11½
72 (15) (17)							
605	Whipple's Point Beacon.....	Off Whipple's point, Vt.....	44 (57) (00) 72 (16) (17)	Fixed white.....	West'n River lantern	25	10¼
606	Maxfield's Point Beacon.....	On the bluff at Maxfield's point, Vt.....	44 (58) (30) 72 (17) (47)	Fixed white.....	6	40	12½

TENTH DISTRICT.

NEW YORK.

607	ST. LAWRENCE RIVER. Ogdensburg	On a low rocky islet, 100 yards from the S. shore of the St. Lawrence, at the upper side of the mouth of the Oswegatchie river, (Ogdensburg harbor,) N. Y.	44 41 52	Fixed white.....	4	42	12¾
			75 30 15				
608	Cross-over Island	On Cross-over island, N. Y., St. Lawrence river, W. side of channel.	44 29 49 75 46 44	Fixed white.....	6	35	12
609	Sister Island.....	On the lower of the Three Sister islands, N. Y., St. Lawrence river, S. side of chan- nel.	44 24 51 75 50 42	Fixed white.....	6	43	12¾
610	Sunken Rock.....	On sunken rock, St. Lawrence river, S. side of channel, one-half mile below Alexan- dria bay, N. Y.	44 20 44 75 54 57	Fixed white.....	6	28	11¼
611	Rock Island.....	On Rock island, St. Lawrence river, N. Y., S. side of channel, at the head of the "Narrows."	44 16 49 76 01 02	Fixed white.....	6	30¾	12½
612	TIBBETT'S POINT.....	On Tibbett's point, N. Y., S. side of head of St. Lawrence river.	44 06 02 76 22 15	Fixed white.....	4	67	15
613	Sackett's Harbor.....	On Horse island, S. side of entrance to Black River bay, and 1½ miles W. of Sackett's harbor, N. Y.	43 56 35 76 08 43	Fixed white.....	5	49	13½
614	GALLOO ISLAND.....	On the S. W. end of Galloo island, Lake Ontario, N. Y.	43 53 19 76 26 42	Fixed white.....	4	62	14½
615	STONY POINT.....	On Stony point, N. Y.....	43 50 22 76 17 57	Fixed white, varied by a white flash every 2 minutes.	5	45	13
616	OSWEGO.....	Near the inner end of pier, W. side of en- trance to Oswego River harbor, N. Y.	43 27 54 76 30 51	Fixed white.....	3	72	15¼
617	Oswego Beacon.....	On crib inside the angle of breakwater, W. side of entrance to Oswego River harbor, N. Y.	43 27 59 76 31 00	Fixed red.....	4	39	12½
618	FAIR HAVEN.....	On 270 feet inside of ^{On} outer end of W. pier, en- trance to Little Sodus bay, N. Y.	43 20 (54) 76 42 (39)	Fixed white.....	4	32	11½
619	Fair Haven Range Light.....	On inner end of pier					
620	BIG SODUS.....	At Sodus point, N. Y., on a bluff of the lake shore, three-fifths of a mile W. of en- trance to Big Sodus bay.	43 16 26 76 59 12	Fixed white, varied by a white flash every 2 minutes.	4	68	15
621	Big Sodus Beacon, (outer).....	On 180 feet inside of ^{On} outer end of W. pier, en- trance to Big Sodus bay, N. Y.	43 16 (36) 76 58 (35)	Fixed white.....	6	34	11¼
622	Big Sodus Beacon, (inner).....	At elbow of W. pier, entering Big Sodus bay, N. Y., 450 yards from the outer bea- con.	43 16 23 76 58 36	Fixed red.....	6	24	10½
623	GENESEE.....	On crib, 300 feet inside of outer end of W. pier, entrance to Charlotte harbor, mouth of Genesee river, N. Y.	43 15 10 77 36 40	Fixed red.....	4	39	12½

NEW YORK AND VERMONT.

THIRD DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
601	Tower of gray limestone, dwelling of wood.	50	1858	.....
602	Tower red, dwelling of wood.....	25	1857	.....
603	Tower and dwelling of dark-blue limestone.	40	1858	.....
604	Lantern suspended from an arm of a stake.	26	1879	.....
605	Light shown from an arm of a stake erected on a protecting pier of piles.	19	1879	.....
606	Red tower, with black lantern.....	25	1879	.....

NEW YORK.

TENTH DISTRICT.

607	Square gray limestone tower; lantern, white, with red dome; dwelling attached.	40	1834	.....	Flats extend beyond the light-house at this point, nearly half-way across the St. Lawrence, and vessels bound up or down should keep over towards the Canadian shore. The dredged channel into Ogdensburg harbor passes the light-house islet, on its lower side, at a distance of 67 yards. Distance to Cross-over light, 20 miles.
608	Circular white tower; lantern, black; dome, red; 114 feet eastward of dwelling.	25	1847	.....	The range between this and Cole's Ferry light (S. S. W. $\frac{1}{4}$ W.) leads up from the latter light to Cross-over island. Distance to Sister Islands light, $6\frac{1}{2}$ miles.
609	Square gray tower rising from limestone dwelling; lantern, black, with red dome.	40	1870	.....	The islands are connected by causeways. A small 10-foot shoal lies in the channel, 500 yards below this light, just S. of the range between this and Cross-over Island light. Distance to Sunken Rock light, 6 miles.
610	Circular white tower; lantern, black; dome, red; a wooden platform and boat-house at base of beacon.	25	1847	.....	Pass Hart island, (the light next above this on the N. side of channel) within 200 yards, to avoid a reef on opposite side of channel. The northern edge of the reef bears S. W. $\frac{3}{4}$ W., one-fourth mile from this light. Distance from Rock Island light, 7 miles.
611	Circular white tower; lantern, black; dome, red; stands 30 feet S. of dwelling.	25	1847	.....	Distance to Tibbett's Point light, 23 miles.
612	Round gray tower, with oil-room at base; dome, white; keeper's dwelling to northward.	62	1827	.....	Galloo Island light, S. S. W., distant 15 miles. Charity Shoal buoy, S. W. by W. $\frac{1}{2}$ W., about $7\frac{1}{2}$ miles.
613	Square red-brick tower, attached to dwelling; lantern, black, with red dome.	40	1831	.....	Tibbett's Point light, 20 miles, and Stony Point light, 11 miles distant.
614	Conical gray tower, connected by covered way with dwelling, both of limestone; lantern, black, with red dome.	55	1820	.....	The point of the island is low and rocky, and reefs make out half a mile. A shoal, N. W., and distant $1\frac{1}{2}$ miles from the light, is marked by a black can buoy. Oswego light, S. by W. $\frac{1}{4}$ W., distant 30 miles.
615	Square gray tower, attached to dwelling; lantern, black, with red dome.	40	1837	.....	A buoy, marking the end of a spit, extending $1\frac{1}{2}$ miles S. W., from Calf island, bears N. W. by W. $\frac{3}{4}$ W., $4\frac{1}{4}$ miles from this light. Galloo Island light, distant 8 miles, and Oswego light, S. S. W. $\frac{1}{4}$ W., 28 miles.
616	Octagonal gray-limestone tower, with oil-room attached; lantern, white.	66	1837	.....	Fair Haven light, 13 miles distant. Direction of pier, N. N. W. $\frac{1}{4}$ W.
617	Gray octagonal beacon; dome of lantern, white.	27	1872	Bell struck by machinery every 12 sec.	Distant from main light, 1,250 feet. A white signal-light is shown from a pole 35 feet high on W. face of E. breakwater, whenever weather is such that it can be reached.
618	Square pyramidal tower, black below and white above; lantern black, with white dome; drab dwelling on bluff, W. of harbor.	27	1872	.....	This light, opened <i>brightly</i> , leads past the point of land a mile to the westward in 2 fathoms of water; farther in shore the naked light shows dimly. Direction of piers, N. Distance to Big Sodus light, 15 miles.
619					Authorized.
620	Square tower of dark-gray limestone, with dwelling attached; lantern, black, with red dome.	45	1825	.....	Distance to Genesee light, 32 miles.
621	Square pyramidal tower, black below and white above; reached by elevated walk along pier.	27	1858	.....	Direction of piers, N. by E.
622	Small octagonal beacon, black below and white above.	18	1858	.....	Light serves only as a guide within the bay, and as a range to enter between piers. Mid-channel course from this light, in past Sand point, S. E. $\frac{3}{4}$ S.
623	<i>Wooden-famed structure</i> Octagonal beacon, black below and white above; dome of lantern, red; reached by elevated walk along pier.	27	1822	Bell struck by machinery every 30 sec.	Direction of piers, N. E. $\frac{1}{2}$ N.

TENTH DISTRICT.

NEW YORK.

Number.	Name.	Location.	Latitude, north. Longitude, west.	Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in statute miles.
624	LAKE ONTARIO.	OAK ORCHARD.....	On outer end of W. pier, entrance to Oak Orchard harbor, N. Y.	43 22 29 78 11 40	Fixed white.....	4	81 11½
		THIRTY-MILE POINT.....	On a slight projection of the lake-coast, 30 miles E. of the mouth of Niagara river, N. Y.	43 22 30 78 29 12	Flashing white, every 90 sec.	3	71 15¼
		Olcott.....	On outer end of W. pier, entrance to Olcott harbor, mouth of Eighteen-mile creek, N. Y.	43 20 27 78 43 11	Fixed white.....	6	32 11½
		FORT NIAGARA.....	On the high E. bank of Niagara river, N. Y., one-fourth of a mile from its mouth.	43 15 42 79 03 40	Fixed white.....	4	78 15¼
628		Horseshoe Reef.....	On Horseshoe reef, (S. end of Middle reef,) at head of Niagara river, one-third way from Canadian to American shore; N. side of approach to Buffalo harbor, N. Y.	42 52 53 78 54 56	Fixed white, varied by a white flash every 90 sec.	4	43 12¾
629	LAKE ERIE.	Buffalo Breakwater, (N. end).....	On crib, behind N. end of new breakwater, S. side of approach to Buffalo harbor, N. Y.	42 52 43 78 53 56	Fixed red	4	37 12¼
		Buffalo Breakwater, (S. end).....					
		BUFFALO.....	On S. pier of entrance to Buffalo harbor, N. Y., 125 yards from the outer end.	42 52 40 78 53 24	Fixed white.....	3	65 14¾
		DUNKIRK.....	On the bluff point, W. side of Dunkirk harbor, N. Y., 740 yards to the westward of the harbor entrance.	42 29 38 79 21 16	Fixed white, varied by a white flash every 90 sec.	3	87 16½
633		Dunkirk Beacon.....	S. W. side of entrance to Dunkirk harbor, N. Y., at the outer end of pier.	42 29 37 79 20 52	Fixed white.....	6	38 12¼

PENNSYLVANIA.

634	LAKE ERIE.	Presqu'ile Beacon.....	Near E. end of N. pier, entrance to Presqu'ile bay, (Erie harbor,) Pa.	42 09 18 80 04 34	Fixed red	4	39½ 12½
		Erie Range Beacon, No. 1.....	On W. end of N. pier, entrance to Presqu'ile bay, (Erie harbor,) Pa.	42 09 11 80 04 56	Fixed white.....	6	16¾ 9½
		Erie Range Beacon, No. 2.....	908 feet from Range beacon, No. 1.....	42 09 12 80 04 40	Fixed white.....	Ref'l'r	45 13
		PRESQU'ILE.....	On N. shore of peninsula, 3 miles by water to the westward of entrance to Erie harbor, (Presqu'ile bay,) Pa.	42 09 57 80 06 57	Flashing red and white. A flash every 10 sec.	4	57 14

NEW YORK.

TENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
624	Square pyramidal tower, black below and white above; an elevated walk along pier to beacon.	27	1871	.....	Direction of piers, N. $\frac{3}{4}$ E. Thirty-mile Point light, W. $\frac{1}{4}$ N., 15 miles.
625	Square dark-gray tower, rising from the N. front of dwelling, both of limestone; lantern, white; watch-room, black.	54	1876	.....	Olcott light, W. $\frac{3}{8}$ S., 12 miles.
626	Square pyramidal tower, black below and white above; an elevated walk connects the tower with the shore.	27	1873	.....	Direction of piers, N. $\frac{1}{4}$ W. Fort Niagara light, W. S. W. $\frac{7}{8}$ W., 18 miles.
627	Gray octagonal tower of limestone, oil-room attached; lantern, black; dwelling detached.	49	1813	.....	The buoy marking the extremity of the shoal, E. side of entrance to Niagara river, bears N. W. by N., five-sixths mile from this light. This light, bearing about S. E., is obscured through an arc of a few degrees by some tall trees near the shore. Between the bearings N. by W. and N. W. from this light, and distant from it $2\frac{1}{2}$ to 3 miles, are several rocky patches, the shallowest having 11 feet of water on it. Distance to Port Dalhousie, 11 miles.
628	Square white beacon, surmounted by a lantern with red dome, on a masonry pier. Pier protected from ice on S. and W. side by a timber crib.	20	1856	.....	Stands in 4 feet of water, 300 yards from the Canadian channel, 200 yards from the Emerald channel, and 250 yards from the S. end of reef. Buffalo light, E. by S., $1\frac{1}{8}$ miles distant. NOTE.—The Buffalo Water-Works Inlet pier, on the E. side of the channel, at the head of the "Narrows" of the Niagara river, and $1\frac{1}{8}$ miles below the Horseshoe Reef light-house, is marked at night by a red light, 22 feet above the water. One and a half miles below the Inlet pier the river is spanned by the "International" bridge, the draw of which is marked at night, on each side, by a white light above a red light. Vessels steer midway between these lights. A red light shown on the swing, 55 feet above the water, and midway between the channel lights, indicates that the draw is closed.
629	Square white beacon, surmounted by a lantern with red dome.	25	1872	Bell struck by machinery, treble blow every 30 sec.	A buoy, marking the end of a reef opposite, on the N. side of approach to harbor, bears N. N. W. $\frac{1}{4}$ W., 630 yards from this light. Direction of breakwater, S. S. E. $\frac{1}{2}$ E. Buffalo light, E. $\frac{1}{4}$ S., one-half mile distant. Horseshoe Reef light, W. N. W. $\frac{1}{2}$ W., seven-eighths of a mile.
630	.....	.....	.....	.....	Authorized.
631	Octagonal tower of gray limestone, surmounted by a black lantern.	51	1828	.....	Direction of piers, W. $\frac{1}{2}$ N. Dunkirk light, S. W. $\frac{1}{4}$ S., distant 36 miles.
632	A square tower of reddish-gray stone, connected by covered way with a brick dwelling. Dome of lantern, red.	52	1837	.....	.....
633	Octagonal beacon on a square masonry substructure, black below and red above. Lantern, white, with red dome. Elevated walk along pier to beacon.	28	1837	.....	The pier extends N. E. by E. $\frac{1}{2}$ E., 1,100 feet from the W. shore of harbor. The dredged channel into the harbor enters between this beacon and a black spar buoy, which marks the site formerly occupied by day-beacon, 100 yards E. N. E. of this, and leads E. S. E. past the S. W. end of the new breakwater, until good water is reached, about half-way up to the city docks. Inside the breakwater the dredged channel is usually marked by a stake-light on each side, maintained by a railroad company, and a light is also shown at the outer end of the railroad company's W. dock.

PENNSYLVANIA.

634	Square pyramidal white tower. Dome of lantern, red. Detached brown dwelling, 50 yards back from pier. Elevated walk along pier to beacon.	33	1857	Bell struck by machinery every 20 sec.	Direction of piers, E. N. E. $\frac{1}{4}$ E. The water is from 13 to 14 feet deep only for 1,000 feet in the line of extension of the N. pier; vessels should be governed accordingly in approaching the range from the northward.
635	White octagonal lantern on a skeleton base.	13 $\frac{1}{4}$	1872	.....	Harbor range lights, 908 feet apart, on a S. W. by W. range line. Presquille outer and inner beacon form a range for approaching and passing between the piers. After passing beacon at inner end of N. pier, the range between it and a light suspended from a mast S. W. of keeper's dwelling leads directly through the newly dredged channel into deep water of harbor.
636	Light suspended from a white mast, with a round black disk above lantern, 5 $\frac{1}{2}$ feet in diameter.	42	1882	.....	.....
637	Square red-brick tower, with dwelling attached; lantern black, with red dome.	45	1873	.....	Four hundred feet from lake, and three-fifths of a mile W. of the northernmost projection of peninsula. When the trees are in leaf this light is partially obscured in the night at the entrance to Erie harbor. Conneaut light, S. W. by W. $\frac{1}{4}$ W., 26 miles. NOTE.—A cluster of bright lights, from burning wells of natural gas, on the main-land at the head of Presquille bay, show over the low neck of the peninsula, and up the coast to a distance of about 12 miles, and to the eastward as far as N. by E. $\frac{1}{2}$ E.

TENTH DISTRICT.

OHIO.

Number.	Name.	Location.	Latitude,		Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in statute miles.
			north.	west.				
638	Conneaut.....	On W. pier, entrance to Conneaut harbor, Ohio, 42 feet from the outer end.	41 58 24 80 33 01	"	Fixed white.....	6	33	11¾
639	ASHTABULA.....	On W. pier, entrance to Ashtabula harbor, Ohio, 50 feet from the outer end.	41 54 30 80 47 56		Fixed white, varied by a white flash every 2 minutes.	5	33	11¾
640	FAIRPORT.....	At Fairport, on the bluff, E. side of the mouth of Grand river, Ohio.	41 45 25 81 16 40		Fixed white.....	3	100	17½
641	Fairport Beacon.....	On crib at outer end of E. pier, entrance to Fairport harbor, mouth of Grand river, Ohio.	41 45 42 81 16 49		Fixed white.....	6	35	12
642	CLEVELAND.....	At Cleveland, Ohio, on the hill E. side of harbor.	41 30 02 81 42 10		Fixed white.....	3½	154	20½
643	Cleveland Beacon, (east).....	On outer end of E. pier, entrance to Cleveland harbor, Ohio.	41 30 19 81 42 44		Upper light, fixed white; lower light, fixed red.	6	37 28	12½ 11
644	Cleveland Beacon, (west).....	On outer end of W. pier, entrance to Cleveland harbor, Ohio.	41 30 17 81 42 47		Fixed white, varied by a red flash every 20 sec.	6	47	13¾
645	Cleveland Break water, (east end)							
646	BLACK RIVER.....	On outer end of W. pier, entrance to Black River harbor, Ohio.	41 28 24 82 11 08		Fixed white.....	4	45	13
647	Vermillion.....	On pier, entrance to Vermillion harbor, Ohio, 75 feet from outer end.	41 25 45 82 21 53		Fixed red.....	5	34	11¾
648	Huron.....	On crib at outer end of W. pier, entrance to Huron harbor, Ohio.	41 24 03 82 32 51		Fixed white.....	4	40	12½
649	CEDAR POINT.....	On Cedar point, E. side of entrance to Sandusky bay, Ohio.	41 29 17 82 41 37		Fixed white.....	5	38	12¼
650	Cedar Point Range Beacon.....	On crib at outer edge of Cedar point, east side of entrance to Sandusky bay, and 200 yards N. E. of Cedar point light, Ohio.	41 29 25 82 41 33		Fixed red.....	6	26	11
651	Sandusky Bay Range Beacon, (main.)	On outer (N. W.) bank, exactly at elbow of dredged channel, Sandusky bay, Ohio.	41 29 19 82 43 06		Fixed white.....	Reff'r.	22	10¼
652	Sandusky Bay Range Beacon, (W.)	1,000 feet to westward of main beacon.....	41 29 17 82 43 18		Two fixed white.....	West'n River lantern's	47 45	13
653	Sandusky Bay Range Beacon, (N.)	1,000 feet to northward of main beacon.....	41 29 29 82 43 03		Two fixed white.....	West'n River lantern's	47 45	13
654	MARBLEHEAD.....	On the N. E. end of Marblehead, Ohio, and S. side of entrance to the channel between the Kelley and Bass islands and the main-land.	41 32 11 82 42 43		Fixed white.....	4	60	14½
655	GREEN ISLAND.....	On W. end of Green island, 1 mile W. of South Bass island, Ohio.	41 38 44 82 52 04		Fixed white, varied by a white flash every 2 minutes.	4	57	14
656	WEST SISTER ISLAND.....	On S. W. end of West Sister island, Ohio.....	41 44 13 83 06 39		Fixed white.....	4	51	13½

LAKE ERIE.

OHIO.

TENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
638	Square pyramidal tower, black below and white above, reached by an elevated walk above pier. Dwelling, cream-color, on bluff, side of mouth of river.	27	1835		Harbor narrow, shallow, and dangerous to enter in heavy weather. Direction of piers, N. by W.; Ashtabula light, W. S. W. $\frac{1}{2}$ W., 13 $\frac{1}{2}$ miles.
639	Square pyramidal tower, black below and white above. Dwelling, cream-color, on bluff, side of mouth of river. An elevated walk along pier from beacon to shore.	27	1835		Direction of piers, N. Distance to Fairport light, 27 miles.
640	Conical tower of gray sandstone, connected by covered way, with brick dwelling; lantern, black.	60	1825		Cleveland light, distant 28 $\frac{1}{2}$ miles.
641	Square pyramidal tower, black below and white above. Elevated walk along pier from beacon to shore.	27	1835		The pier projects 120 feet beyond the east one, on which the beacon stands. Direction of piers, N. $\frac{1}{4}$ W.
642	Octagonal tower of red brick, with stone finish and foundation, connected by covered way with dwelling; lantern, black.	84	1820		Distance to Black River light, 25 miles.
643	Square pyramidal tower, black below and white above. Elevated walk along pier to beacon.	30 21	1869		On and near the bearings E. S. E. $\frac{1}{4}$ E., and S. by W. $\frac{1}{2}$ W., (from seaward,) the lower light is obscured by the frame of its lantern. Beyond the arc of illumination, to the eastward, the lights show dimly, and warn vessels that they are too far inshore. Direction of piers, N. by W.
644	Square pyramidal tower, black below and white above. Elevated walk along pier to beacon.	40	1831	Bell struck by machinery every 10 sec.	
645					Authorized.
646	Square pyramidal tower, black below and white above. Elevated walk along pier to beacon.	40	1875		Direction of piers, N. W. Vermillion light, W. S. W. $\frac{1}{2}$ W., 11 miles.
647	Gray octagonal beacon; dome of lantern, red. Elevated walk along pier to beacon.	27	1847		Direction of piers, N. $\frac{1}{4}$ W. Huron light, W. by S., 9 $\frac{1}{2}$ miles.
648	Skeleton tower, black below and red above; lantern white, with red dome. Elevated walk along pier to beacon.	30	1835		Direction of piers, N. E. $\frac{1}{2}$ N. Distance to Cedar Point light, 9 $\frac{1}{2}$ miles.
649	Low white tower, on stone dwelling; frame buoy-house and jetty-wharf, on inner shore of the point, near the light-house.	21	1839		The buoyed channel into Sandusky bay passes 75 yards from the extremity of the point, and 200 yards from the light. Distance to Marblehead light, 4 miles.
650	A white shed-roofed building, with long panelled front, from which the light is shown; it being shifted from time to time to correspond with the shifting of the line of best water at the outer bar.	16			Forms a range with Cedar Point light for crossing the outer bar, a mile distant. This light should not be approached nearer than one-third of a mile on the range, nor passed, entering the bay, nearer than 200 yards.
651	White square building, elevated 11 feet above its crib; light shown from the S. E. corner of the gallery.	14	1879		These beacons stand in about 12 feet of water, 1 $\frac{1}{2}$ miles W. of Cedar Point, and 2 miles N. of the city of Sandusky. They mark the channel between Cedar Point and the city, as follows: The W. and main beacon, in range, guide from Cedar Point to the latter beacon; the N. and main beacons, in range, guide thence to a bend in the dredged channel, half a mile beyond; and the range between the W. beacon and the illuminated clock of the City Hall leads from that point to the city docks; the lights of the rear beacons are each double, (one light, 2 feet vertically above another,) but beyond, a distance of about 500 yards, the two blend, showing as a single light. The W. beacon is connected with the main beacon by an elevated walk.
652	Red iron tube, with octagonal watch-room at base, stands on crib.	40	1879		
653	Black iron tube, with octagonal watch-room at base, stands on crib.	40	1879		
654	White conical tower of rubble masonry, with red dome and black lantern. Dwelling, light buff, to westward of town.	55	1821		The range between this and Green Island light (N. W. $\frac{1}{2}$ W., 11 miles) guides between Starve Island reef on the N. side of the channel and Scott's Point Shoal and Mouse Island reef on the South. Range between it and E. end of Kelley's Island leads directly over middle of Kelley's Island reef.
655	Square gray tower of limestone, with white lantern; dwelling attached.	43	1854		This light, open S. of South Bass island, just clears Starve Island reef on S. side. The range between this and West Sister Island light (N. W. by W. $\frac{1}{4}$ W., 14 miles) passes about 1 mile N. of Niagara reef. Kept open on W. end of Rattlesnake island, clears Hen and Chickens one-half mile. The light is obscured between the bearings S. W. by W. and N. W. by W. (from seaward) by woods on the island.
656	White conical tower, with dwelling connected by covered way; both of limestone.	44	1847		On N. E. side of island, the light is obscured by trees through an arc of about 1 $\frac{1}{2}$ points. A reef extends one-third of a mile from the S. E. point of the island. A red light shown from the station in place of the usual white light is to be understood as a "distress signal." Distance to Turtle Island light, 14 $\frac{1}{2}$ miles, W. $\frac{1}{2}$ N.

TENTH DISTRICT.

OHIO AND MICHIGAN.

Number.	Name.	Location.	Latitude, north. Longitude, west.	Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in stat- ute miles.
657	TURTLE ISLAND.....	On Turtle Island, at the entrance to Mau- mee bay, Ohio, E. side of main channel.	41 45 09 83 23 29	Fixed white.....	4	50	13½
658	Maumee Bay Range Beacon, (main.)	On S. bank, exactly at elbow of South and Long Reaches, Maumee bay, Ohio.		<i>F. W.</i>		27	
659	Maumee Bay Range Beacon, (east.)	1000 feet to eastward of main beacon <i>north</i>		<i>F. W.</i>		43	
660	Maumee Bay Range Beacon, (south.)	1000 feet to southward of main beacon.....		<i>F. W.</i>		43	
661	Maumee Outer Range Beacon, (front.)	W. shore of Maumee bay, 1½ miles N. of mouth of Maumee river, Ohio. Dis- tance between beacons, 830 feet.....	41 43 04 83 28 16	Fixed white.....	6	18	9¼
662	Maumee Outer Range Beacon, (rear.)		41 43 06 83 28 27	Fixed white.....	6	28	11
663	Maumee Middle Range Bea- con, (front.)	W. shore of Maumee bay, two-thirds mile N. of mouth of Maumee river, Ohio. Distance between beacons, 1,250 feet....	41 42 32 83 28 31	Fixed red.....	6	18	9¼
664	Maumee Middle Range Bea- con, (rear.)		41 42 29 83 28 45	Fixed red.....	6	26	11
665	Maumee Inner Range Beacon, (front.)	E. bank of Maumee river, Ohio, 1¼ miles above its mouth. Distance between beacons, 730 feet.....	41 40 52 83 28 45	Fixed red.....	6	19	10
666	Maumee Inner Range Beacon, (rear.)		41 40 46 83 28 49	Fixed red.....	6	32	11½
667	MONROE.....	On crib at outer end of N. pier of entrance to the ship-canal leading into the River Raisin, Mich., 1¼ miles above its mouth.	41 53 28 83 19 53	Fixed red.....	4	42	12¾
668	Detroit River, (Bar Point).....	Near the mouth of Detroit river.....					
669	Mamajuda.....	On Mamajuda shoal, Detroit river, Mich., W. side of channel, 5½ miles above Lime- Kiln crossing.	42 11 35 83 08 18	Fixed red.....	4	36	12
670	Grassy Island.....	On Grassy Island shoal, Detroit river, W. side of main channel, 7 miles below De- troit, Mich.	42 13 32 83 08 08	Fixed white, varied by a white flash every minute.	5	33	11¾

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671	Bell Isle.....	On S. E. point, at head of Belle Isle, De- troit river, Mich.	42 20 23 82 57 31	Fixed red.....	4	42	13¾
672	LAKE ST. CLAIR.	Windmill Point.....	42 21 20 82 55 20	Fixed white, varied by a white flash every 90 sec.	5	55	14
673		St. Clair Flats Beacon.....	At the head of the "Old Cut," or artificial channel through St. Clair flats, at South Pass, Mich., in front of main light.		Fixed white.....	6	28	11

OHIO AND MICHIGAN.

TENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
657	Dwelling, with square tower attached, of yellow brick; lantern, white.	44	1831		N. end of Turtle Island shoal bears from the light N. E. $\frac{1}{4}$ E., $1\frac{1}{2}$ miles distant. This light, bearing S. by E., is obscured by the chimney of the dwelling. The channel in passes the light at a distance of 200 yards. A narrow shaded beam from this light marks the elbow of the channel at outer end of "Long reach," ($1\frac{1}{4}$ miles S. $\frac{1}{4}$ W. from the light,) with this exception: The dredged channel of the bay is unmarked by lights until the Outer Light range is entered at the inner end of "Long reach."
658	<i>Keeper's dwelling and buoy house painted white. lantern on buoy house.</i>		1864		Grips placed in position, warning light displayed from central crib.
659	<i>From black iron shaft on cut.</i>		1864		
660	<i>From black iron shaft on cut.</i>		1864		
661	Small square tower, red above and white below, mounted on railway so that it can be shifted laterally as the channel changes.	12	1868		These ranges intersect each other, and mark the three inner "reaches" of the dredged channel of the bay, and the natural channel beyond, as far as Grass point. Care must be taken not to mistake the middle for the outer range, the prolongation of the former being crossed by vessels entering before the outer is reached.
662	Square white tower, mounted on railway so that it can be shifted laterally as the channel changes. Brown detached dwelling behind beacon.	24	1868		
663	Small square tower, red above and white below, mounted on railway so that it can be shifted laterally as the channel changes.	12	1868		
664	White shed-roofed building, with pannelled front, from which the light is shown; it being moved from time to time to correspond with the shifting of the channel. The beacon has a black day-mark painted on face, to indicate position of lantern.	21	1868		
665	Small square tower, red above and white below, mounted on railway so that it can be shifted laterally as the channel changes.	7	1868		
666	White shed-roofed building, with pannelled front, from which the light is shown; it being moved from time to time to correspond with the shifting of the channel. The beacon has a black day-mark painted on face, to indicate position of lantern.	21	1868		
667	White octagonal tower, with white dwelling attached; dome of lantern, red.	36	1840		The outer end of the piers diverge; the compass, by direction of the inner or parallel portion of piers, is E. S. E. $\frac{1}{4}$ E. The buoy on outer end of Raisin Point shoal bears S. S. E. $\frac{3}{4}$ E., distant $1\frac{1}{2}$ miles. Bar Point light-ship, (Canadian,) mouth of Detroit river, bears N. E. $\frac{3}{4}$ E., distant 13-5 miles. NOTE.—The "Gibraltar" or "West" channel of the Detroit river is spanned, two-thirds of a mile below Trenton, Mich., by a railroad drawbridge. The draw is nearest to the Grosse Isle shore, and is lighted at night as follows: A RED light on each end of pier on which the draw pivots; a white light on the main part of bridge, on either side, at edge of draw. No lights shown to indicate that draw is open or closed.
668					Authorized.
669	Square low tower on white dwelling, on piles, connected by a short foot-bridge, with a fishing-station islet.	32	1840		Two hundred feet from the channel and 700 yards from lower end of shoal, in 3 or 4 feet of water. This and Grassy Island light, in range, serve as a guide for the channel above, below, and between the two light-houses. From below, this light should not be approached on the range nearer than 300 yards, nor the range re-entered until 700 yards above the light; it should be again quitted when a third of a mile below the fishing station on Grassy island, and may be retaken 600 yards above the Grassy Island light. Grassy Island light bears N. $\frac{1}{4}$ E., $2\frac{1}{4}$ miles distant.
670	A square cream-colored tower, surmounted by white lantern, attached to a dwelling; standing on submerged piles.	29	1840		The structure stands in 5 feet of water, at the elbow of the shoal, seven-eighths mile from its upper end, and 500 feet from the channel.

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671	Square red-brick tower, with brick dwelling attached.	36 $\frac{1}{2}$	1882		A guide for entering and leaving Detroit river from and to Lake St. Clair. Windmill Point light-house, N. E. $\frac{3}{4}$ E., 2 miles.
672	White tower and red-brick dwelling, connected by covered way.	51	1838		Marks the entrance to Detroit river.
673	Small yellow-brick tower, on pier foundation.	23	1850		With St. Clair Flats light, forms a range to enter the "Old Cut." Distance between the two lights, 1,000 feet; bearing, N. E. by E.

ELEVENTH DISTRICT.

MICHIGAN.

Number.	Name.	Location.	Latitude, north. Longitude, west.	Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in stat- ute miles.
674-676	LAKE ST. CLAIR. St. Clair Flats St. Clair Flats Canal, (lower light.) Upper light	At the head of the "Old Cut," or artificial channel through St. Clair flats, at South Pass, Mich.	42 00 33 82 12 30	Fixed white	4	44	13
		On lower end of western pier, Mich.		Fixed red	4	45	13
		On the upper end of western pier, Mich.		Fixed red	4	45	13
677	FORT GRATIOT	At the head of St. Clair river, Mich.	43 00 22 82 24 44	Fixed white, varied by a white flash every 2 minutes.	3	82	16
678	SAND BEACH, (Harbor of Refuge)	On angle-crib of breakwater at the harbor of refuge, near Sand beach, Mich.	43 50 00 82 35 30	Fixed white	4	44	13
679	POINTE AUX BARQUES	On the shore of Lake Huron, S. side of the entrance to Saginaw bay, Mich.	44 01 23 82 47 10	Flashing white, every 10 sec.	3	89	16½
680	PORT AUSTIN REEF	On Port Austin reef, about 1½ miles from the main-land, entrance to Saginaw bay, Lake Huron, Mich.	44 05 00 82 57 00	Fixed white for 1 minute, followed by 5 consecutive red flashes, with an interval of 12 sec. between flashes.	4	80	16
681-682	SAGINAW RIVER RANGE, (front)..... SAGINAW RIVER RANGE, (rear).....	At mouth of Saginaw river, Mich.	43 38 38 83 51 18	Fixed red	6	37	12¼
682			Fixed white	4	61	14½	
683	CHARITY ISLAND	In Saginaw bay, Mich.	44 02 16 83 26 28	Fixed white	4	45	13
684	TAWAS, (Ottawa)	On the S. W. end of Ottawa point, easterly side of Tawas bay, N. W. shore of Saginaw bay, Mich.	44 15 35 83 26 38	Fixed white, varied by a red flash every 90 sec., between N. W. by E'd to S. W., and fixed red, varied by a red flash every 90 sec., between S. W. by W'd to N. W.	5	70½	15
685	AU SABLE PIERHEAD	On a small crib outside of N. pier at the harbor of Au Sable, mouth of Au Sable river, Mich.	44 24 (30) 83 18 (45)	Fixed red	5	32	11½
686	STURGEON POINT	On the western shore of Lake Huron, 23¼ miles S. by W. of Thunder Bay island, Mich.	44 42 49 83 16 00	Fixed white	3½	69	15
687	THUNDER BAY RIVER	On N. side of entrance to Thunder Bay river, Mich.	45 03 00 83 23 00	Fixed red	6	53	13½
688	THUNDER BAY ISLAND	Near the S. E. point of Thunder Bay island, N. side of entrance to Thunder bay, Mich.	45 02 (17) 83 09 (24)	Flashing white, every 90 sec.	4	59	14¼
689-690	PRESQUE ISLE HARBOR, (front light).... PRESQUE ISLE HARBOR, (rear light)....	At the harbor of Presque Isle, Lake Huron, Mich.	45 20 (31) 83 28 (50)	Fixed white	6	18	9¼
690			Fixed white	6	36	12	
691	PRESQUE ISLE	Near the northern point of the peninsula, about 27 miles N. W. of Thunder Bay Island light, Mich.	45 21 30 83 29 19	Fixed white	3	123	18¾
692	SPECTACLE REEF	On westerly edge of Spectacle reef, to the eastward of the entrance to the Straits of Mackinac, in Lake Huron, Mich.	45 46 00 84 08 30	Flashing red and white; shows alternately a red and white flash every 30 sec.	2	86	16½
693	DETOUR	At the mouth of the St. Mary's river, Lake Huron, Mich.	45 57 20 83 54 22	Fixed white	3	75	15½
694	BOIS BLANC	On the N. side of E. end of Bois Blanc island, Mich., in the Straits of Mackinac.	45 48 35 84 24 36	Fixed white	4	53	13¾
695	CHEBOYGAN	On the main-land, opposite to Bois Blanc island, Mich., Straits of Mackinac.	45 40 09 84 24 36	Fixed white, varied by a white flash every 90 sec.	5	37	12¼
696	Cheboygan River Range, (front light.)	On the W. side of Cheboygan river, Mich., on the prolongation of the centre line of the cut.	45 39 (00) 84 28 (00)	Fixed white	Lens lantern	42	
697	Cheboygan River Range, (rear light.)			Fixed white	Lens lantern	68	
698	MCGULPIN'S POINT	Near Old Mackinac, Mich., in the Straits of Mackinac, on the southern side of the entrance to Lake Michigan.	45 47 13 84 45 49	Fixed white	3½	102	17½

MICHIGAN.

ELEVENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
674	Yellow-brick tower, on a pier foundation, connected with dwelling by a covered way.	37	1859		Guide to and through the "OLD CUT."
675	Tower, rising from the corner of a red-brick dwelling.	40	1871		Marks the lower entrance of the "CANAL."
676	Tower, rising from the corner of a red-brick dwelling.	40	1871		Marks the upper entrance of the "CANAL."
677	White tower; red-brick dwelling detached.	76	1825	8-inch steam-whistle; blast 8 sec., interval 32 sec.	Marks the entrance from Lake Huron into St. Clair river.
678	White open framework tower.....	36	1875		To mark the harbor of refuge at Sand beach, Lake Huron. The erection of a steam fog-whistle has been authorized.
679	White tower and dwelling, connected by covered way.	79	1847		Marks the turning-point for vessels entering Saginaw bay.
680	White open framework tower, on a crib.	57	1878	1st-class steam-siren; blast 7 sec., interval 30 sec.	Marks the reef making out from old Pointe aux Barques. Vessels should give it a berth of about one-half mile. There is no passage for vessels between the light and main-land. Port Austin, S. by W. $\frac{1}{4}$ W., $2\frac{1}{2}$ miles; Charity island, W. $\frac{3}{4}$ S., 23 miles.
681	White open framework tower, on a crib.	30	1876		} Range-lights. A guide for entering Saginaw river. The lights are 2,310 feet apart.
682	Yellow-brick tower, attached to dwelling.	53	1876		
683	White-brick tower, connected with frame dwelling by a covered way.	39	1857		On the N. W. point of the island, from which shoals extend from N. W. to N. E. The main channel is to the westward of the light. Strangers should not attempt to pass to the eastward of the light.
684	White-brick tower, connected with a red-brick dwelling by a covered way.	61 $\frac{1}{2}$	1853		A sand flat extends nearly a mile to the southward and westward from the light. Over this flat the light will show fixed red, varied by red flashes. The northwesterly edge of the sand flat is very abrupt, dropping from 6 to 24 feet in a vessel's length.
685	White open framework tower.....	27	1873		A guide into Au Sable river.
686	White tower and dwelling, connected by covered way, both of brick.	65	1859		Coast light, on most easterly point between Saginaw and Thunder bays, Lake Huron.
687	White open framework tower.....	44 $\frac{1}{2}$	1877		On a crib 57 feet E. of, and in line with, Gilchrist's wharf. Serves as a guide into river and bay.
688	Yellow-stone tower, connected with brick dwelling by a covered way.	56	1832	10-inch steam-whistle; blast 8 sec., interval 10 sec.; then a blast of 2 sec., interval 40 sec.	Vessels must not attempt to pass between the island and main-land.
689	White framework tower.....	16	1870		} Range-lights; distance apart 1,000 feet, bearing E. $\frac{1}{4}$ S. and W. $\frac{1}{4}$ N.
690	Light on white dwelling.....	25	1870		
691	White tower, connected with dwelling by covered way.	100	1846		Coast light, and marks the vicinity of Presque Isle harbor.
692	Tower of light-gray limestone; dome and railings, red. A square wooden pier 12 feet above water surrounds the tower.	97	1873	10-inch steam-whistle; blast of 3 sec., with alternate intervals of 12 and 42 sec.	
693	White iron-pile structure, connected with white dwelling by a covered way.	70	1847	10-inch steam-whistle; blast 8 sec., interval 52 sec.	Coast light, and marks the entrance from Lake Huron into St. Mary's river. Spectacle reef, S. W. $\frac{1}{2}$ S., $16\frac{1}{2}$ miles.
694	Tower on yellow-brick dwelling.....	38	1839		A guide to the N. channel of the Straits of Mackinac.
695	Light on white dwelling.....	33	1857		Marks the entrance into the S. channel of the Straits of Mackinac. The S. point of Isle Bois Blanc bears N., and the channel opposite the light is 3 miles wide.
696	Light on white dwelling.....		1880		} Range-lights to guide through the centre of the cut into the mouth of the river. Distance between the lights is 850 feet.
697	White open framework tower.....		1880		
698	Tower rising from yellow-brick dwelling.	38	1868		To mark turning point in Straits of Mackinac, 2 miles W. of Old Fort Mackinac, and a guide through the straits. The channel abreast of this light is 3 miles wide. South Graham shoal, N. E. $\frac{1}{4}$ E., $4\frac{1}{4}$ miles.

ELEVENTH DISTRICT.

MICHIGAN.

Number.	Name.	Location.	Latitude, north. Longitude, west.			Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance of public in sta- tion miles.	
			°	'	"					
LAKE MICHIGAN.	699	ST. HELENA	On the S. E. point of St. Helena island, Mich., in the Straits of Mackinac.			45 51 15 84 46 50	Fixed red.....	3½	71	15¼
	700	WAUGOSHANCE.....	On Waugoshance shoal, Mich., in the Straits of Mackinac, at the entrance to Lake Michigan.			45 47 13 85 04 56	Fixed white, varied by a white flash every 90 sec.	4	74	15½
	701	SKILLIGALLEE, (Isle aux Galets).....	On the Skilligallee rock, (Isle aux Galets), Mich., 8½ miles S. S. W. ¾ W. from Wau- goshance light, and 5¼ miles from the main-land.			45 40 34 85 09 46	Fixed white.....	3	106	17¼
	702	Beaver Island Harbor.....	On the N. side of the entrance to the har- bor, Mich.			45 44 36 85 30 06	Fixed red.....	4	37	12¼
	703	BEAVER ISLAND.....	On the S. end of Beaver island, Lake Mich- igan, Mich.			45 34 26 85 33 59	Fixed white, varied by a white flash every minute.	4	103	17½
	704	Little Traverse.....								
	705	SOUTH FOX ISLAND.....	On the southern extremity of South Fox island, Mich.			45 22 40 85 49 30	Fixed red, varied by a red flash every 2 min- utes.	4	68	15
	706	GRAND TRAVERSE.....	On the N. W. extremity of Light-house point, entrance to Grand Traverse bay, Mich.			45 12 24 85 24 50	Fixed white.....	4	40	12½
	707	Mission Point.....	On the N. E. point of the peninsula divid- ing Grand Traverse bay, Mich.			44 59 30 85 28 00	Fixed white.....	5	48	13¼
	708	SOUTH MANITOU.....	On South Manitou island, near the E. shore of Lake Michigan, Mich.			45 00 26 86 04 29	Fixed white.....	3	104	17½
	709	POINT BETSEY.....	On Pointe aux Bees Scies, Mich., 23¼ miles S. by W. ¾ W. of South Manitou Island light-house, E. side of Lake Michigan.			44 41 33 86 15 18	Fixed white, varied by a white flash every 90 sec.	4	53	13¼
	710	Frankfort Pierhead.....	Near the outer end of the S. pier at the harbor of Frankfort, Mich., E. shore of Lake Michigan.			44 37 50 86 14 44	Fixed red.....	6	33½	11¼
	711	Manistee Pierhead.....	Near the outer end of the S. pier, entrance to Manistee river, Mich., 15¼ miles N. of Grande Pointe au Sable.			44 15 00 86 20 37	Fixed red.....	5	35	12
	712	GRANDE POINTE AU SABLE.....	On Grande Pointe au Sable, Mich., 45 miles S. of Point Betsey light, east shore of Lake Michigan.			44 03 29 86 30 53	Fixed white.....	3	106	17¼
713	Père Marquette.....	Near the end of S. pier at Ludington, Mich., on the E. side of Lake Michigan, 7¼ miles S. of Grande Pointe au Sable.			43 57 10 86 27 44	Fixed red.....	5	36	12	

MICHIGAN AND INDIANA.

LAKE MICHIGAN.	714	Pent Water Pierhead.....	On the outer end of the S. pier at Pent Water, Mich., E. shore of Lake Michigan.			43 46 57 86 26 40	Fixed red.....	6	33	11¼
	715	PETITE POINTE AU SABLE.....	On Petite (Little) Pointe au Sable, Mich., 23½ miles S. of Grande Pointe au Sable light, E. shore of Lake Michigan.			43 39 11 86 32 24	Fixed white, varied by a white flash every 30 sec.	3	108	18
	716	WHITE RIVER.....	On S. bank at the entrance into White Lake and river, Mich., E. shore of Lake Michigan, 11 miles N. of Muskegon light.			43 22 32 86 25 29	Fixed white, varied by a red flash every minute.	4	57	14
	717	White River Pierhead.....	Near the outer end of the S. pier.....			43 22 32 86 25 41	Fixed red.....	5	33	11¼
	718	Muskegon.....	On the S. bank at the entrance into Mus- kegon lake and river, Mich., E. shore of Lake Michigan.			43 13 45 86 20 08	Fixed white.....	4	45	13
	719	Muskegon Pierhead Light.....	On the outer end of the S. pier, (Port Sher- man,) Muskegon, Mich.			43 13 39 86 20 30	Fixed red.....	6	38	12
	720	Grand Haven.....	On a bluff at the S. side of the mouth of Grand river, Mich.			43 03 28 86 14 48	Fixed white, varied by a white flash every 90 sec.	4	70	15¼

MICHIGAN.

ELEVENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
699	White tower, connected by covered way with a red-brick dwelling.	65	1873		To guide vessels under the lee of St. Helena island, and a leading mark to vessels passing westward through the S. channel of the Straits of Mackinac. Waugoshance light, S. W. by W. $1\frac{1}{2}$ W., $11\frac{1}{2}$ miles; McGulpin's Point light, S. E. $\frac{1}{2}$ E., $6\frac{1}{2}$ miles.
700	Iron-cased tower, with dwelling attached, surrounded by a square crib. Dwelling and lower part of the tower, dark red.	65	1851	10-inch steam-whistle in duplicate; blast 5 sec., interval 25 sec.	Marks Waugoshance shoal, and turning-point at western end of Straits of Mackinac. St. Helena reef, N. E. by E. $9\frac{1}{4}$ miles; the S. W. end of Manitou Paymen shoal, N. $\frac{1}{4}$ E., 12 miles; the E. end of Simmons's reef, N. N. W. $\frac{1}{2}$ W., $10\frac{1}{4}$ miles; White shoal, N. W. $\frac{3}{4}$ N., $4\frac{1}{2}$ miles; Gray's reef, W. $\frac{1}{4}$ S., $5\frac{1}{2}$ miles; Hog Island reef, W. S. W. $\frac{1}{4}$ W., $12\frac{3}{4}$ miles; Skiff-gallee light, S. S. W. $\frac{3}{4}$ W., $8\frac{1}{2}$ miles.
701	Tower and dwelling of yellow brick, connected by a covered way.	100	1850	1st-class steam-siren; blast 7 sec., interval 42 sec.	A guide to and from the Straits of Mackinac, $5\frac{1}{4}$ miles from the Michigan shore. Reef extends from the light, N. W. $\frac{1}{2}$ W., three-fourths of a mile, and N. E. by E. $3\frac{1}{2}$ E., $1\frac{1}{2}$ miles. The E. end of Hog Island reef bears W. N. W. $\frac{1}{2}$ W., $6\frac{1}{2}$ miles; the E. end of Gray's reef, N. by W. $\frac{1}{2}$ W., $7\frac{1}{2}$ miles.
702	White tower and dwelling, connected by a covered way.	31	1856		Guide to anchorage, Beaver harbor. Skiff-gallee light bears E. S. E. $\frac{3}{4}$ E., 17 miles.
703	Tower and dwelling of yellow brick, connected by a covered way.	40	1851		A guide through the passage between the Beaver and North Fox islands. This channel is $9\frac{1}{2}$ miles wide.
704					To be built.
705	Yellow-brick tower, rising from dwelling.	39	1867		A guide through the passage between South Fox and North Manitou islands. From the light a bank extends S. $9\frac{1}{4}$ miles which is from $1\frac{1}{4}$ to $1\frac{3}{4}$ miles wide. The soundings are from, 4 to 6 and 8 fathoms. To the E., S., and W. of the bank there are from 20 to 30 fathoms of water. On the bank there are two small shoals, bearing, respectively, from the light S. $\frac{1}{4}$ W., $4\frac{1}{2}$ miles, with 13 feet, and S. $\frac{1}{4}$ W., $7\frac{1}{2}$ miles, with 16 feet, marked by buoys.
706	Light on yellow-brick dwelling	34	1852		A guide to Grand Traverse bay and to the passage between the Manitou and main-land. The N. W. point of the North Manitou, W. by S., $24\frac{1}{2}$ miles.
707	Light on white dwelling	35	1870		A guide to the E. and W. arms of Grand Traverse bay. Reefs extend off this point, from W. to N. by E. of the light-house $1\frac{1}{4}$ miles.
708	White tower, connected by a covered way with a yellow-brick dwelling; fog-signal house about 34 yards N. E. of the light-house.	91	1830	10-inch steam-whistle; blast 8 sec., interval 52 sec.	Guide to anchorage of South Manitou harbor, and showing the passage between the Manitou islands and the main-land Point Betsey light, S. by W. $\frac{3}{4}$ W., $23\frac{1}{2}$ miles. Passage between light-house and Sleeping Bear point, 7 miles wide.
709	Tower with dwelling attached, both of yellow brick.	34	1858		Coast light.
710	White open framework tower	25	1873		A guide into the river. Width between piers, 200 feet.
711	White open framework tower	27	1875		A guide into the river. Width between piers, 180 feet.
712	Tower and dwelling of yellow brick, connected by a covered way.	100	1867		Coast light.
713	White open framework tower on the end of the S. pier.	29	1870		A guide into the harbor. Width between piers, 200 feet.

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714	White open framework tower	25	1873		A guide into the harbor. Width between piers, 150 feet.
715	Red-brick tower and dwelling, connected by a covered way. As seen from the lake, they are projected against a background of sand hills partially covered with light timber.	100	1873		Coast light.
716	Yellow-brick dwelling, with square tower rising from its N. W. corner.	38	1875		Coast and harbor light.
717	White open framework tower	27	1872		A guide into the harbor. Width between piers, 200 feet.
718	Light on white frame dwelling	37	1851		Coast and harbor light.
719	White open framework tower	27	1871	Bell struck by hand ^{machinery} at intervals of 15 sec.	A guide into the harbor. Width between piers, 190 feet.
720	A White tower, with black lantern attached to dwelling.	24	1855		Coast and harbor light, marking entrance to Grand Haven.

ELEVENTH DISTRICT.

MICHIGAN AND INDIANA.

Number.	Name.	Location.	Latitude, north. Longitude, west.			Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible in statute miles.
			°	'	"				
721	Grand Haven Pierhead.....	Near the outer end of the S. pier at Grand Haven, Mich.	43 03 30	86 15 12		Fixed white.....	6 37	12¼	
722	Holland Pierhead, (Black Lake)..	Near the end of S. pier at the entrance to Black Lake, Mich., E. shore of Lake Michigan.	42 46 24	86 12 48		Fixed red.....	5 32	11½	
723	Kalamazoo Pierhead.....	Near the outer end of the S. pier, mouth of Kalamazoo river, Mich.	42 39 54	86 13 17		Fixed white.....	5 34	11¾	
724	South Haven Pierhead.....	Near the outer end of the S. pier, at South Haven, Mich., mouth of South Black river.	42 24 05	86 17 06		Fixed red.....	5 32	11½	
725	St. Joseph.....	On the bluff in the city of St. Joseph, Mich.	42 06 29	86 29 02		Fixed white, varied by a white flash every 90 sec.	4 101	17½	
726	St. Joseph Pierhead.....	Near the outer end of the N. pier, at the entrance to St. Joseph river, Mich.	42 06 (47)	86 29 (19)		Fixed red.....	6 34	11¾	
727	Michigan City.....	On the E. side of the entrance to harbor of Michigan City, Ind.	41 43 21	86 54 22		Fixed white.....	5 52	13¾	
728	Michigan City Pierhead.....	Near the outer end of the W. pier, at Michigan City, Ind.	41 43 32	86 54 34		Fixed red.....	6 32	11½	

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729	Calumet Pierhead, (South Chicago.)	<i>On</i> Near outer end of N. pier, mouth of Calumet river, Lake Michigan, 11 miles south-eastward of Chicago breakwater, Ill.	41 44 01	87 31 54		Fixed red.....	4 33	11¾
730	Chicago.....	On the inner pier at N. side of entrance to Chicago river, Ill.	41 53 21	87 36 52		Fixed white.....	3 83	16¼
731	Chicago Pierhead.....	Near the outer end of the N. pier, entrance to Chicago harbor, Ill.	41 53 23	87 36 35		Fixed white.....	6 35½	12
732	Chicago Breakwater Light, (south.)	On the southerly end of the breakwater, Chicago harbor, Ill.				Fixed red.....	5 35	12
733	Chicago Breakwater Light, (north.)	On the northerly end of the breakwater, Chicago harbor, Ill.				Fixed white.....	Lens lantern	24 10½
734	Chicago Water-works Crib.....	On the Water-works crib, about 4,300 feet N.E. from E. end of outer breakwater, Chicago harbor, Ill.						
735	GROSSE POINTE.....	On Grosse Pointe, Evanston, 12½ miles N. of Chicago, Ill.	42 03 52	87 40 33		Fixed white, varied by a red flash every 3 minutes.	2 119½	18½
736	WAUKEGAN, (Little Fort).....	On a bluff S. side of Little Fort river, in the town of Waukegan, Ill.	42 21 23	87 49 46		Fixed white.....	5 75	14
737	KENOSHA, (Southport).....	On Warrenton island, Wis., N. side of the entrance to Kenosha harbor.	42 35 24	87 48 56		Fixed white, varied by a white flash every 90 sec.	4 76	15¾
738	Kenosha Pierhead.....	Near the outer end of the N. pier, Kenosha harbor, Wis.	42 35 20	87 48 44		Fixed red.....	6 39	12½
739	RACINE, (Root River).....	On the N. pier harbor of Racine, Wis.....	42 44 05	87 46 41		Fixed white.....	4 48	13¾
740	Racine Pierhead.....	Near the outer end of the N. pier, harbor of Racine, Wis.	42 44 05	87 46 37		Fixed red.....	6 35½	12

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741	WIND POINT, (RACINE POINT)..	On Wind point, 3½ miles N. of Racine light, Wis.	42 46 (51)	87 45 (30)		One flashing white, every 30 sec.	3 112	18
742	Milwaukee Pierhead.....	On the outer end of the N. pier, harbor of Milwaukee, Wis.	43 01 36	87 53 51		One fixed red.....	6 104½	13
743	MILWAUKEE.....	On the extreme N. point of Milwaukee bay, Wis.	43 03 58	87 52 11		Fixed red.....	4 40	12½
744	Port Washington.....	On the bluff in the N. part of the town of Port Washington, Wis.	43 23 29	87 52 05		Fixed white, varied by a white flash every 2 minutes.	4 102	17½
745	Sheboygan Pierhead Light.....	<i>On</i> Near the outer end of the N. pier, entrance to Sheboygan harbor, Wis	43 44 59	87 42 05		Fixed white.....	4 113	18¼
						Fixed red.....	6 32	11½

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ELEVENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
721	White open framework tower.....	25	1871	1st-class steam-siren; blast 5 sec., interval 40 sec.	A guide into Grand Haven. Width between piers, 400 feet.
722	White open framework tower.....	27	1870		A guide into the harbor of Holland. Width between piers, 200 feet.
723	White open framework tower.....	27	1876		A guide into Kalamazoo river. Width between piers, 225 feet.
724	White open framework tower.....	27	1872		A guide into South Haven. Width between piers, 180 feet.
725	Light on white dwelling.....	43	1831		Coast and harbor light.
726	White open framework tower.....	29	1831		A guide into the river. Width between piers, 240 feet.
727	Light on yellow-brick dwelling.....	34	1837		Coast and harbor light.
728	White open framework tower.....	24	1871		A guide into the harbor.

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729	White open framework tower.....	30	1873		A guide into Calumet river. Width between piers, 300 feet.
730	Black iron tower, connected by a covered way with a gray frame dwelling.	72	1859		Coast and harbor light.
731	White open framework tower.....	27	1869	Bell struck by machinery every 20 sec.	A guide into the harbor. Width of entrance, about 500 feet.
732	White open framework tower.....	30	1876		A guide to southern entrance to breakwater. Width of entrance, 250 yards.
733	Light shown from the top of a white post.	19	1876		A guide around the N. end of the breakwater into the harbor.
734				Bell struck by machinery about 12 times every minute.	This station is maintained by the city of Chicago.
735	Yellow-brick tower, connected by a covered way with a yellow-brick dwelling.	99	1873	1st-class steam-siren; blast 7 sec., interval 90 sec.	Coast light.
736	Light on white dwelling.....	35	1849		Coast light.
737	Tower and detached dwelling, both of yellow brick.	55	1848		Coast and harbor light.
738	White open framework tower.....	30	1848		A guide into the harbor. Width between the piers, 170 feet.
739	Tower rising from dwelling, both of yellow brick.	36	1866		Keeping the light open to the N'd of the pierhead light (red) insures the passage to the N. of Racine reef. The reef is 1 3/4 miles E. by S. of the light.
740	White open framework tower.....	30	1872		Marks entrance to harbor. Width between piers, 270 feet.

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741	Yellow-brick tower and dwelling, connected by a covered way.....	102	1880	10-inch steam-whistle; alternate blasts of 3 and 5 sec. at intervals of 26 sec.	In addition to the third-order light there is displayed from the watch-room window of the same tower, immediately under the main light, a small fixed RED light of the sixth order, with an arc of illumination covering Racine reef, a dangerous ledge of rocks, lying S. by E. 1/2 E., 4 miles distant from the light-house. This red light is visible between the bearings N. W. by N. and N. by W., from seaward.
742	White open framework tower.....	94 1/2	1872	10-inch steam-whistle; blast 5 sec., interval 55 sec.	A guide to vessels entering the harbor. Width between piers, 286 feet.
743	Yellow-brick tower, and attached dwelling.	28	1855		Coast light and guide to Milwaukee bay.
744	Light on yellow-brick dwelling.....	40	1849		Coast light.
745	White open framework tower.....	25	1873		A guide to vessels entering the harbor. N. N. E. 1/4 E., distant 2 3/4 miles from the end of the harbor pier, there is a rocky reef with 7 feet of water on it, the N. and S. ends of which are marked by 3d-class can buoys, painted red, one on each end, 600 yards apart. There is a passage inside the reef, which should not be attempted by strangers. Width between piers, 255 feet. Pier extends 450 feet beyond the beacon into the lake

Number.	Name.	Location.	Latitude, north. Longitude, west.	Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in stat- ute miles.		
LAKE MICHIGAN.	746	Sheboygan.....	On a point 1 mile N. of the mouth of She- boygan river, Wis.	43 45 50 87 41 49	Fixed white.....	5	80	16	
	747	Manitowoc Pierhead Light	Near the outer end of the N. pier, harbor of Manitowoc, Wis.	44 05 33 87 38 59	Fixed red.....	6	34	11 $\frac{1}{4}$	
	748	TWIN RIVER POINT.....	On Rawley's point, Wis., about 5 miles northward of Two Rivers, W. shore of Lake Michigan.	44 12 37 87 30 36	Fixed white, varied by a white flash every 30 sec.	3	110	18	
	749	Sturgeon Bay Canal Pierhead.....	On outer end of N. pier, entrance to harbor of refuge, Sturgeon Bay canal, Wis., Lake Michigan.	44 47 30 87 18 40	Fixed red.....	6	35	12	
	750	Bailey's Harbor, (front light).....	On western side of anchorage, N. shore of Bailey's harbor, Wis.....	45 03 17 86 05 50	Fixed white.....	6	21	10 $\frac{1}{2}$	
	751	Bailey's Harbor, (rear light).....		Fixed white.....	5	35	12		
	752	CANA ISLAND.....	On Cana island, 1 $\frac{3}{4}$ miles S. by W. $\frac{3}{4}$ W. of the Porte Des Morts entrance to Green Bay, Wis., and 4 miles to the northward of the entrance to Bailey's Harbor, Wis.	45 05 16 87 03 03	Fixed white.....	3	88	16 $\frac{1}{2}$	
	753	PORTE DES MORTS, (Pilot Island).....	On Pilot island, Wis., entrance to Green Bay.	45 16 50 86 55 03	Flashing white, every minute.	4	38	12 $\frac{1}{4}$	
	754	POTTAWATOMIE.....	On the N. point of Rock Island, Wis., S. side of the entrance to Green Bay.	45 25 40 86 40 42	Fixed white.....	4	137	19 $\frac{1}{4}$	
	755	Poverty Island.....	On the S. end of Poverty island, Mich., en- trance to Green Bay.	45 31 20 86 40 05	Flashing red, every 15 sec.	4	78	15 $\frac{1}{4}$	
	756	POINT PENINSULA.....	On the point between Little and Big Bays de Noquette, Mich.	45 40 05 86 58 02	Flashing white every 30 sec.	4	41	12 $\frac{1}{4}$	
	757	ESCARABA.....	Near the extreme end of Sand point, in Little Bay de Noquette, Mich.	45 44 (00) 87 02 (00)	Fixed red.....	4	44	13	
	758	EAGLE BLUFF.....	On the extreme westerly point of Eagle bluff, $\frac{2}{3}$ miles northward of the village of Fish Creek, in Green Bay, Wis.	45 10 03 87 14 12	Fixed white.....	3 $\frac{1}{2}$	76	15 $\frac{1}{4}$	
	759	CHAMBERS ISLAND.....	On the western point of a small bay on the N. shore of Chambers island, Green Bay, Wis.	45 12 08 87 21 54	Fixed white, varied by a white flash every min- ute.	4	68	15	
	GREEN BAY.	760	Menomonee Pierhead.....	Near outer end of N. pier, mouth of Me- nomonee river, Mich.	45 (06) (00) 87 (35) (00)	Fixed red.....	5	34	11 $\frac{1}{4}$
		761	GREEN ISLAND.....	Near the S. E. point of Green island, off Menomonee river, Green Bay, Wis.	45 03 23 87 29 35	Fixed white.....	4	55	14
		762	Sherwood Point.....	On Sherwood point, south side of the en- trance from Green Bay into Sturgeon Bay, Wis.	44 53 (30) 87 25 (55)	Fixed white, varied by a red flash every minute.	4	61	14 $\frac{1}{4}$
763		Dunlap Reef, (front light).....	On Dunlap reef, Sturgeon Bay, Wis.....	44 (50) (00) 87 (23) (00)	Fixed white.....	6	18	9 $\frac{1}{4}$	
764		Dunlap Reef, (rear light).....		Fixed white.....	5	39	12 $\frac{1}{4}$		
765		Tail Point.....	Near the S. end of Long Tail point, Wis., at the head of Green Bay.	44 35 49 87 58 59	Fixed white.....	4	56	14	
766		Grassy Island, (upper light).....	At either end of the E. side of the artifi- cial cut through Grassy island, Wis., near the mouth of Fox river, Green Bay.....	44 33 37 87 55 10	Fixed white.....	6	37	12 $\frac{1}{4}$	
767		Grassy Island, (lower light).....		Fixed white.....	6	30	11 $\frac{1}{4}$		
768		Frying-pan Island.....	On Frying-Pan island, mouth of St. Mary's river, near N. end of Lake Huron.	46 59 (10) 83 53 (00)	Fixed red.....	6	18 $\frac{1}{2}$	9 $\frac{1}{4}$	
769		St. Mary's Falls Canal, (N. pier).....	About 450 feet from outer end of N. pier, western entrance of St. Mary's Falls canal, Mich.		Fixed white.....	Lens lantern	57	14	
770	St. Mary's Falls Canal, (S. pier).....	On outer end of S. pier, at western en- trance of St. Mary's Falls canal, Mich.	46 30 (00) 84 22 (00)	Fixed red.....	4	30	11 $\frac{1}{4}$		

WISCONSIN AND MICHIGAN.

ELEVENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
746	Light on white dwelling.....	34	1839		Coast light and a guide to Sheboygan harbor.
747	White open framework tower.....	29	1873	Bell struck by machinery, double blow every 30 sec.	A guide to vessels entering the harbor. Width between piers, 250 feet.
748	White tower, connected by a covered way with a yellow dwelling.	100	1874		The light stands on a low sandy shore. Pine barrens to the N., S., and W. Grande Point au Sabie light, E. $\frac{3}{4}$ S., 50 miles.
749	White open framework tower.....	29	1882	10-inch steam-whistle; blast 5 sec., interval 25 sec.	A guide to the harbor of refuge and ship-canal. The erection of a steam fog-whistle has been authorized.
750	White frame tower.....	17	1870		Front light 4 miles distant from the entrance to the channel leading to the anchorage. Lights 350 feet apart, N. N. W. $\frac{1}{4}$ W. and S. S. E. $\frac{1}{4}$ E. The old white tower of the former light, on the point on the starboard side of the entrance, is still standing, and serves as a good day-mark for approaching the harbor.
751	Light on white dwelling.....	24	1870		
752	Tower and dwelling of yellow brick, connected by a covered way.	80	1869		Coast light.
753	Light on yellow-brick dwelling.....	34	1849	1st-class steam-siren; blast 5 sec., interval 30 sec.	The N. E. shores of the peninsula of Green bay and Washington island are fringed with rocky shoals, requiring a vigilant look-out and use of the lead.
754	Light on gray-stone dwelling.....	34	1839		A guide to Green Bay through the passage between Rock and St. Martin's islands. A 9-foot shoal in the channel bears N. E. by E. $\frac{1}{4}$ E., 3 miles from the light. Off the S. E. point of Rock island there are two dangerous reefs—Fisherman's reef awash, bearing E. S. E. $\frac{1}{4}$ E., $2\frac{1}{4}$ miles, and the other (4 feet water) S. S. E. $\frac{1}{2}$ E., $3\frac{1}{4}$ miles.
755	White circular tower and dwelling, connected by a covered way; background, trees.	65	1874		This light is for a guide between the Gull islands and Poverty island into Green bay. Point Peninsula light, N. W. by W. $\frac{1}{4}$ W., $17\frac{1}{4}$ miles; Pottawatomie light, S. W. $\frac{1}{4}$ W., $10\frac{1}{4}$ miles.
756	Yellow-brick tower rising from dwelling.	36	1865		Marks approach to Little and Big Bays de Noquette. A dangerous shoal extends S. from the light $13\frac{1}{2}$ miles. There is also a 10-foot spot S. by W. $\frac{1}{2}$ W., $2\frac{1}{4}$ miles from the light. Escanaba light-house bears N. W. $\frac{1}{2}$ N., $6\frac{1}{8}$ miles; Boyer's bluff, S. $\frac{3}{4}$ E., 17 miles.
757	Yellow-brick tower rising from dwelling.	39	1867		A guide into the harbor of Escanaba and Little Bay de Noquette. To the eastward of the point a sand flat extends three-eighths of a mile.
758	Yellow-brick tower rising from the corner of dwelling.	38	1868		A guide through the Strawberry passage, between the islands and the main shore. Strangers should not attempt to pass between the Strawberries and Chambers island. Horseshoe reef N. by E. $\frac{1}{2}$ E., $3\frac{1}{2}$ miles. Eagle harbor, to the northward of the bluff, is a good harbor of refuge.
759	Yellow-brick tower rising from the corner of dwelling.	38	1868		A guide through the western passage (6 miles wide) between the island and the main-land. A reef extends off the N. point of the island three-fourths mile. Strangers should not pass between this island and the Strawberries. Whale's Back Shoal buoy, N. E. $\frac{1}{8}$ N., $13\frac{1}{2}$ miles; Point Rochereau, N. W. by N., 7 miles.
760	White conical iron tower.....	29	1877		A guide into Menomonee river. The pierhead has been extended some distance beyond the beacon.
761	Light on white dwelling.....	40	1863		Reefs extend off from the S. E. and western points of this island a half and three-quarters mile, respectively. The best channel (6 miles wide) is to the eastward of this island. Chambers Island light bears N. N. E. $\frac{3}{8}$ E., $11\frac{1}{8}$ miles; Peshtigo Shoal buoy, S. S. W. $\frac{1}{2}$ W., 8 miles.
762	Square red-brick tower with dwelling attached; lantern, white.	32	1883		A guide to Sturgeon bay. Eagle bluff, N. N. E., $21\frac{1}{4}$ miles; Chambers island, N. $\frac{3}{4}$ E., $21\frac{1}{2}$ miles; Green island, N. by W. $\frac{1}{4}$ W., $11\frac{1}{2}$ miles; Menomonee, N. W. by N., $15\frac{1}{4}$ miles.
763	White frame tower.....	14	1881		These two lights form a range to guide vessels through narrow channel abreast Hill's Point, Sturgeon bay. The lights are 680 feet apart, on line bearing S. S. $\frac{3}{4}$ E. and N. N. W. $\frac{3}{4}$ W. At present better water is found in the channel by keeping the rear light just open to the westward of the front light.
764	White tower on dwelling.....	35	1881		
765	Light on white dwelling.....	56	1848		A guide to the entrance of Fox river.
766	Two white towers, 676 feet apart. Dwelling between the two.....	20	1872		Mark the ends of the artificial cut into Fox river, Wisconsin.
767		22			
768	Conical iron tower, painted dark-red.....	15	1882		S. end of Pipe island, N., 2 miles. Detour light-house, S. S. W. $\frac{1}{8}$ W., $2\frac{1}{4}$ miles.
769	Triangular pyramidal open framework iron tower; upper half, slatted and painted white; lower half, open and painted black.	50	1882		A guide to the western entrance of the ship-canal and a range to clear the 11-foot shoal that lies W. $\frac{1}{2}$ S., $1\frac{1}{4}$ miles from the canal entrance.
770	White circular tower, with black lantern.	25	1882		

Number.	Name.	Location.	Latitude, north.			Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in statute miles.
			Longitude, west.						
771	Round Island.....	Near N. point of Round island, Waikabay, Mich., near entrance to St. Mary's river.	46 26 35 81 31 23			Fixed white.....	5	50	13½
772	POINT IROQUOIS.....	Head of St. Mary's river, and entrance to White Fish bay, Lake Superior, Mich.	46 29 04 84 37 40			Flashing white, every 30 sec.	4	72	15¼
773	WHITE FISH POINT.....	On White Fish point, Lake Superior, Mich., 25 miles from head of St. Mary's river.	46 46 17 81 57 11			Fixed white.....	3	76	15½
774	BIG SABLE.....	At Big Sable point, Mich., S. shore of Lake Superior, between White Fish point and Grand island.	46 41 00 86 09 00			Fixed white.....	3	107	17¾
775	GRAND ISLAND.....	North end of Grand island, Mich., on a high bluff.	46 33 40 86 40 51			Fixed white, varied by a white flash every 90 sec.	4	205	19½
776	Grand Island Harbor.....	On the low sand point projecting from Grand island into the E. entrance to Grand Island harbor, Mich.				Fixed white.....	5	49	13½
777	Grand Island Harbor Range, (front light.)	On the main-land at W. entrance to Grand Island harbor, Mich.....				Fixed white.....	6	23	10½
778	Grand Island Harbor Range, (rear light.)		Fixed white.....	6	41	12½			
779	Marquette.....	On the N. point of Marquette harbor, Mich.	46 32 48 87 22 35			Fixed white.....	4	77	15¾
780	Marquette Breakwater.....	Eighty-four feet from outer end of breakwater, Marquette, Mich.	46 33 (00) 87 22 (00)			Fixed red.....	6	40¼	12½
781	GRANITE ISLAND.....	On Granite island, Lake Superior, 12½ miles northward of Marquette, Mich.	46 43 15 87 24 41			Fixed white, varied by a red flash every 90 sec.	4	93	17
782	HURON ISLAND.....	On N. side of W. Huron island, off Huron bay, Mich.	46 57 48 87 59 56			Fixed white.....	3½	197	22¾
783	STANNARD'S ROCK.....	Near northern end of reef called Stannard's Rock, Lake Superior, Mich.	47 10 (52) 87 13 (12)			Flashing white, every 30 sec.	2	102	17¾
784	Sand Point.....	On Sand point, W. side of L'Anse bay, Lake Superior, Mich.	46 47 (30) 88 27 (30)			Fixed red.....	5	39	12½
785	PORTAGE RIVER.....	Near mouth of Portage river, western shore of Keweenaw bay, Mich.	46 58 41 88 24 51			Fixed white, varied by a red flash every 2 minutes.	5	68	15
786	Portage Range, (front light).....	On the W. side of Portage river, Mich., near its mouth.....				Fixed white.....	6	21	10½
787	Portage Range, (rear light).....		Fixed white.....	6	27	11			
788	MANITOU.....	On the E. point of Manitou island, Mich., Lake Superior.	47 25 12 87 34 59			Fixed white, varied by a white flash every minute.	3	81	16
789	GULL ROCK.....	On a rocky islet between Keweenaw point and Manitou island, Mich.	47 25 02 87 39 35			Fixed red.....	4	50	13½
790	COPPER HARBOR.....	On the eastern point of the entrance to Copper harbor, Mich.	47 28 27 87 51 24			Fixed white.....	4	65	14¾
791	Copper Harbor Range, (front light.)	On Fort Wilkins reserve, Mich.....	47 28 08 87 51 44			Fixed white.....	6	22	10¼
792	Copper Harbor Range, (rear light.)		47 28 03 87 51 45			Fixed white.....	6	39	12½
793	Eagle Harbor.....	On the W. point of the entrance to Eagle Harbor, Mich.	47 27 37 88 09 17			Fixed white, varied by a white flash every 2 minutes.	5	58	14¼
794	Eagle Harbor Range, (front light.)	On S. shore of Eagle Harbor, Lake Superior, Mich.	47 (28) (00) 88 (03) (00)			Fixed white.....	Lens lantern	20	10
795	Eagle Harbor Range, (rear light.)		Fixed white.....	Lens lantern	29	11¼			
796	Eagle River.....	Near the entrance to Eagle river, S. shore of Lake Superior, Mich.	47 24 53 88 17 34			Fixed white.....	6	61	14½
797	PORTAGE LAKE SHIP-CANAL.....	At the entrance to Portage Lake ship-canal, Mich., S. shore of Lake Superior, on W. side of the cut.	47 14 00 88 37 00			Fixed white.....	3½	56	14
798	Portage Lake Ship-Canal Pier-head.	On end of W. pier at entrance to ship-canal, Mich.	47 (15) (00) 88 (37) (00)			Fixed red.....	6	30½	11½

LAKE SUPERIOR.

WISCONSIN AND MICHIGAN.

ELEVENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
771	Square gray-stone tower rising from the corner of dwelling.	35	1855		A guide to and from the entrance to Lake Superior.
772	White tower, connected with dwelling by a covered way.	53	1857		A guide to and from the St. Mary's river. Parisien island, N. by W. $\frac{3}{4}$ W., 12 miles.
773	Lantern surmounting an iron cylinder, supported by iron piles and braces. The structure is white and connected with dwelling.	70	1847	10-inch steam-whistle; blast 8 sec., interval 10 sec., then a blast of 2 sec. and interval of 40 sec.	Coast light and guide to and from White Fish bay, at the S. E. extremity of Lake Superior.
774	White tower, connected with dwelling by a covered way.	88	1874		Coast light, 27 miles eastward of Grand Island light.
775	Yellow-brick tower rising from dwelling.	33	1856		Coast light and guide to Grand Island harbor.
776	Light on white frame tower on dwelling.	45	1868		To guide through the eastern passage to the anchorage at Grand Island harbor. A shoal extends about 300 yards eastward from the light.
777	White frame tower.....	19	1868		These lights are 500 feet apart, and are a guide for entering the W. channel to the anchorage of Grand Island harbor. The lights are in range S. by E. $\frac{3}{4}$ E. and N. by W. $\frac{3}{4}$ W.
778	Light on white frame tower on dwelling.	32	1868		
779	Yellow-brick tower rising from dwelling.	33	1853	10-inch steam-whistle; blast 5 sec., interval 25 sec.	Coast light and guide to Marquette harbor.
780	White open framework tower.....	36	1875		A guide to Marquette harbor.
781	Tower rising from granite dwelling.....	34	1868	Bell struck by machinery.	
782	Granite tower rising from dwelling.....	34	1868	10-inch steam-whistle; blast 8 sec., interval 52 sec.	Coast-light. The fog-signal is situated on N. W. corner of the island.
783	Gray-stone tower on circular pier.....	78 $\frac{1}{2}$	1882	10-inch steam-whistle; blast of 3 sec., interval 10 sec., then blast 5 sec., followed by interval of 42 sec.	Marks dangerous outlying reef. Marquette light-house bears S. $\frac{3}{4}$ W., distant 41 $\frac{1}{2}$ miles. Manitou light-house bears N. W. $\frac{3}{4}$ W., distant 24 $\frac{1}{2}$ miles. A stone beacon 8 feet high, and surmounted by an iron shaft, marks the S. shoal of the reef, distant 730 yards S. S. E. of the light-house.
784	Red-brick tower rising from dwelling.....	32	1878		A guide to vessels bound to L'Anse, Michigan. Portage River main light bears N. $\frac{5}{8}$ E., 13 $\frac{3}{8}$ miles.
785	White stone tower, connected with a red-brick dwelling by a covered way.	45	1856		Coast light. Marks approach to Portage river.
786	White frame tower.....	19	1868		These lights are 728 feet apart, and form a range for entering the cut between Keweenaw bay and river; the lights are in range, bearing N. by W.
787	Light on white frame dwelling.....	25	1868		
788	Lantern surmounting an iron cylinder, supported by iron piles and braces. The structure is white, connected with a frame dwelling by a covered way.	70	1849	10-inch steam-whistle; alternate blasts of 3 and 5 sec., with intervals of 26 sec.	Coastwise.
789	Yellow-brick tower rising from dwelling.	39	1867		A guide through the passage between Gull rock (which lies near the western end of Manitou island) and Keweenaw point.
790	Yellow-brick tower rising from dwelling.	30	1846		Coast light and guide to Copper Harbor. <i>Discontinued a navigation, 1887</i>
791	White frame tower.....	16	1865		These lights are 500 feet apart, and when in range bear S. $\frac{5}{8}$ W. A guide into Copper harbor.
792	Light on white dwelling.....	26	1865		
793	Red-brick tower rises from corner of dwelling.	38	1850		Coast light and guide to Eagle Harbor.
794	White frame tower.....	19	1877		These lights are 1,000 feet apart, and when in range bear S. S. E. $\frac{5}{8}$ E. A guide into Eagle Harbor.
795	Light on frame dwelling.....	27	1877		
796	Light on yellow stone dwelling.....	24	1858		Coast light and guide to the pier.
797	Square red-brick tower forming canal front of dwelling; lantern, octagonal, white.	33	1874		Coast light and guide to entrance of ship-canal.
798	White tower, with open-frame base.....	18	1879		A guide into the canal.

Number.	Name.	Location.	Latitude, north.			Characteristic of light.	Order of light.	Height of light above sea-level, in feet.	Distance visible, in stat- ute miles.
			o	'	"				
799	Ontonagon.....	At mouth of Ontonagon river, Mich., W. side of entrance.	46 52 28 89 19 33			Fixed white.....	5	47	13½
800	Ontonagon Pierhead	On outer end of W. pier, Ontonagon, Mich., about 200 feet from the outer end.	46 52 (00) 89 19 (00)			Fixed red.....	6	29	11¼
801	OUTER ISLAND.....	On the most northerly point of Outer island, (Apostle group,) Wis.	47 04 36 90 23 35			Flashing white, every 90 sec.	3	130	19¾
802	MICHIGAN ISLAND.....	On the S. point of Michigan island, Wis., the southeastern island of the Apostle group.	46 52 15 90 47 42			Fixed white.....	3½	129	19¾
803	La Pointe	Near the end of Chaquamegan point, Mich., at the S. channel entrance into Chaquamegan bay.	46 43 48 90 47 42			Fixed red	4	42	12¾
804	Raspberry Island	On the S. W. point of Raspberry island, one of the Apostle group, Wis.	46 58 13 90 48 17			Fixed white, varied by a white flash every 90 sec.	5	77	15
805	Sand Island	On the most northerly point of Sand island, Wis., one of the Apostle group.	47 00 (09) 90 56 (00)			Fixed white.....	4	56	14
806	MINNESOTA POINT.....	Near the end of Minnesota point, Minn., head of Lake Superior, three-eighths of a mile N. W. of the piers.	46 42 36 92 01 33			Fixed white.....	5	50	13½
807	Duluth	On the outer end of the S. pier at the en- trance to the canal, at Duluth, Minn.	46 46 (49) 92 05 (11)			Fixed red	5	40	12½
808	ISLE ROYALE, (Menagerie Island).	On Menagerie island, entrance to Siskiwit bay, Isle Royale, Mich.	48 05 24 88 34 46			Fixed white.....	4	75	15½
809	Passage Island.....	S. W. point of Passage island, Mich.....	48 13 (35) 88 21 (38)			Fixed red	4	97½	17

MICHIGAN, WISCONSIN, AND MINNESOTA. ELEVENTH DISTRICT.

Number.	Color and peculiarity of light-house or vessel.	Height, in feet, from base of structure to centre of lantern.	Year first lighted.	Fog-signal.	Remarks.
799	Yellow-brick tower, rising from dwelling.	39	1852	.....	Coast and harbor light.
800	White open framework tower.....	22	1875	.....	A guide into the Ontonagon river.
801	White tower, connected by a covered way with red dwelling, both of brick.	78	1874	10-inch steam-whistle; blast 8 sec., interval 52 sec.	A guide to vessels passing outside the island.
802	White stone tower and attached stone dwelling.	44	1857	.....	A guide through the passage between Magdalene, Stockton, and Michigan islands to Bayfield and La Pointe.
803	Light on white frame dwelling.....	34	1858	.....	Coast light and guide through South channel to La Pointe and Bayfield.
804	Light on white frame dwelling.....	37	1862	.....	A guide for the channel between the main-land and Raspberry islands, and to Bayfield and La Pointe.
805	Red-sandstone tower, rising from corner of sandstone dwelling; lantern, white.	37	1881	.....	Coast light, and marks the turning-point between Bayfield and Duluth.
806	White tower, connected by covered way with red-brick dwelling.	45	1857	.....	Coast light and guide into S. entrance of Superior and Allouez bays.
807	White open framework tower.....	37	1874	Bell struck by machinery every 15 sec.	Coast light, and a guide to vessels entering the harbor of Duluth. On entering the harbor, mariners should give the end of the S. pier a berth of at least 20 feet, to avoid stone rapping.
808	White tower, connected by a covered way with dark-brown dwelling, all of stone.	55	1875	.....	Coast light, serving also to guide into Siskiwit bay.
809	Square gray-stone tower, rising from stone dwelling.	37½	1882	Bell struck by machinery, double blow at intervals of 30 sec.	A guide through the channel between Isle Royale and Passage island.

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(The Canadian lights are printed in *Italics*.)

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<i>Lonely Island, Lake Huron</i>		48	<i>Point Clark, Lake Huron</i>		46
<i>Long Point, (North Foreland,) Lake Erie</i>		44	<i>Point du Lac, St. Lawrence River</i>		36
<i>Long Point, West End, Lake Erie</i>		44	<i>Point Iroquois, Lake Superior, Mich</i>	11	28
<i>Long Reach, Whitehall Narrows, N. Y.</i>	3	10	<i>Point Peninsula, Green Bay, Mich</i>	11	26
<i>L'Original, Ottawa River</i>		40	<i>Point Peter, Lake Ontario</i>		42
<i>Lobinière Lights, St. Lawrence River</i>		36	<i>Point Pleasant, Lake Ontario</i>		42
<i>Lower end of Four Channels, Whitehall Narrows, N. Y.</i>	3	10	<i>Point St. Lawrence, St. Lawrence River</i>		36
<i>Lower end of Two Channels, Whitehall Narrows, N. Y.</i>	3	10	<i>Porphyry Point, Lake Superior</i>		48
M.					
<i>Maitland Port, Lake Erie</i>		44	<i>Port Austin Reef, Lake Huron, Mich</i>	11	20
<i>Mamajuda, Detroit River, Mich</i>	10	18	<i>Port Bruce or Catfish Creek, Lake Erie</i>		44
<i>Manistee Pier, Lake Michigan, Mich</i>	11	22	<i>Port Burwell or Big Otter Creek, Lake Erie</i>		44
<i>Manitou, Lake Superior, Mich</i>	11	28	<i>Port Colborne Lights, Lake Erie</i>		44
<i>Manitowoc Pierhead, Lake Michigan, Wis</i>	11	26	<i>Port Credit, Lake Ontario</i>		44
<i>Maple Bend, Whitehall Narrows, N. Y.</i>	3	10	<i>Port Dalhousie Lights, Lake Ontario</i>		44
<i>Marblehead, Lake Erie, Ohio</i>	10	16	<i>Port Dover, Lake Ontario</i>		44
<i>Marquette, Lake Superior, Mich</i>	11	28	<i>Port des Morts, (Pilot Island,) Lake Michigan, Wis</i>	11	26
<i>Maumee Bay Range, Lake Erie, Ohio</i>	10	18	<i>Port Hope, Lake Ontario</i>		44
<i>Maumee Range, Lake Erie, Ohio</i>	10	18	<i>Port Lewis, St. Lawrence River</i>		42
<i>Maxfield Point, Lake Memphremagog, Vt.</i>	3	12	<i>Port Maitland, Lake Erie</i>		44
<i>McGulpin's Point, Lake Huron, Mich</i>	11	20	<i>Port Neuf Lights, St. Lawrence River</i>		36
<i>McKenzie's Wharf, Lake Huron</i>		46	<i>Port St. Francis Lights, St. Lawrence River</i>		36
<i>McKie's Point, St. Francis Lake, St. Lawrence River</i>		42	<i>Port St. John, St. Lawrence River</i>		36
<i>McQuestion's Point, Ottawa River</i>		40	<i>Port Stanley, Lake Erie</i>		44
<i>McTavish Point, Ottawa River</i>		40	<i>Port Washington, Lake Michigan, Wis</i>	11	28
<i>Meaford, Lake Huron</i>		46	<i>Portage Lake Ship-Canal, Lake Superior, Mich</i>	11	23
<i>Menagerie Island, (Isle Royale,) Lake Superior, Mich</i>	11	30	<i>Portage Range, Lake Superior, Mich</i>	11	23
<i>Menomonee Pierhead, Green Bay, Mich</i>	11	26	<i>Portage River</i>		36
<i>Michael's Point, Lake Huron</i>		46	<i>Pottawatonic, Lake Michigan, Wis</i>	11	28
<i>Michigan City, Lake Michigan, Ind</i>	11	24	<i>Poverty Island, Lake Michigan, Wis</i>	11	26
<i>Michigan Island, Lake Superior, Wis</i>	11	30	<i>Presque Isle Harbor, Lake Huron, Mich</i>	11	20
<i>Michipicoten Island, Lake Superior</i>		48	<i>Presque Isle Lights, Lake Ontario</i>		42
<i>Middle Island, Lake Erie</i>		44	<i>Presque Isle or McKenzie's Wharf, Lake Huron</i>		46
<i>Milwaukee, Lake Michigan, Wis</i>	11	24	<i>Presqu'ile, Lake Erie, Pa</i>	10	14
<i>Minnesota Point, Lake Superior, Minn</i>	11	30	<i>Prince Arthur's Landing, Lake Superior</i>		48
<i>Mission Point, Lake Michigan, Mich</i>	11	22	<i>Pulpit Point</i>	3	10
<i>Mississauga Straits, Lake Huron</i>		46	R.		
<i>Mississauga Island, Lake Huron</i>		48	<i>Racine Point, (Wind Point,) Lake Michigan, Wis</i>	11	24
<i>Mohawk Island, Lake Erie</i>		44	<i>Racine, (Root River,) Lake Michigan, Wis</i>	11	24
<i>Molson's Island, Lake Memphremagog</i>		38	<i>Raspberry Island, Lake Superior, Wis</i>	11	30
<i>Monroe, Lake Erie, Mich</i>	10	18	<i>Red Horse Rock, St. Lawrence River</i>		42
<i>Montes du Lac, St. Lawrence River</i>		36	<i>Red Rock Point Lights, Lake Huron</i>		48
<i>Montreal Light, St. Lawrence River</i>		38	<i>Repentigny Lights, St. Lawrence River</i>		38
<i>Morris or Victoria Island, Ottawa River</i>		40	<i>Richelieu, St. Lawrence River</i>		36
<i>Morrison's Island, Ottawa River</i>		40	<i>Rock Island, St. Lawrence River, N. Y.</i>	10	14
<i>Muskegon Lake, Michigan, Mich</i>	11	22	<i>Rondeau Harbor Lights, Lake Erie</i>		44
N.					
<i>Newport Wharf, Lake Memphremagog, Vt</i>	3	12	<i>Root River, (Racine,) Lake Michigan, Wis</i>	11	24
<i>Niagara Fort, Lake Ontario, N. Y.</i>	10	14	<i>Round Island, Lake Superior, Mich</i>	11	28
<i>Nine-mile Point, (Gage or Simcoe,) St. Lawrence River</i>		42	S.		
<i>North Foreland or Long Point, Lake Erie</i>		44	<i>Sackett's Harbor, Lake Ontario, N. Y.</i>	10	12
<i>North Half-way Point Lights, Richelieu River</i>		38	<i>Saginaw River Range, Lake Huron, Mich</i>	11	20
<i>Nottawasaga Island, Lake Huron</i>		46	<i>Salmon (Wicked) Point, Lake Ontario</i>		42
O.					
<i>Oak Orchard, Lake Ontario, N. Y.</i>	10	14	<i>Sand Beach, (Harbor of Refuge,) Lake Huron, Mich</i>	11	20
<i>Oakville, Lake Ontario</i>		44	<i>Sand Island, Lake Superior, Wis</i>	11	30
			<i>Sand Point, Lake Superior, Mich</i>	11	28
			<i>Sandusky Bay Ranges, Lake Erie, Ohio</i>	10	12
			<i>Scotch Bonnet or Egg Island, Lake Ontario</i>		48
			<i>Shaftsbury or Little Current Lights, Lake Huron</i>		38
			<i>Sheboygan, Lake Superior, Wis</i>	11	24
			<i>Sherwood Point, Green Bay, Wis</i>	11	12
			<i>Sister Islands, St. Lawrence River, N. Y.</i>	10	12
			<i>Skelligalee, (Isle aux Galets,) Lake Michigan, Mich</i>	11	11
			<i>Snake Island, Lake Ontario</i>	3	10
			<i>Snoddy's Dock</i>		10