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LIST OF LIGHTS  
ON THE  
NORTHERN LAKE AND RIVER COASTS  
OF THE  
UNITED STATES.

CORRECTED TO JANUARY 1, 1871;

AND ALSO OF  
THE ENGLISH LIGHTS

ON THE  
NORTHERN SHORES OF THOSE WATERS.

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# LIGHT-HOUSE BOARD OF THE UNITED STATES.

Organized in conformity to the act of Congress approved August 31, 1852.

## LIST OF MEMBERS.

Hon. GEORGE S. BOUTWELL, *Secretary of the Treasury, ex-officio President.*  
 Rear-Admiral W. B. SHUBRICK, *United States Navy.*  
 Professor JOSEPH HENRY, LL. D., *Secretary Smithsonian Institution.*  
 Brevet Major General A. A. HUMPHREYS, *Chief of Engineers.*  
 Brevet Major General J. G. BARNARD, *Colonel of Engineers.*  
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 Professor B. PEIRCE, LL. D., *Superintendent Coast Survey*  
 Rear-Admiral THORNTON A. JENKINS, *United States Navy.*  
 Major GEORGE H. ELLIOT, *Corps of Engineers.*

## MEMBERS OF THE BOARD EMPLOYED IN THE OFFICE.

Rear-Admiral W. B. SHUBRICK, *United States Navy, Chairman.*  
 Rear-Admiral THORNTON A. JENKINS, *United States Navy, Naval Secretary.*  
 Major GEORGE H. ELLIOT, *Corps of Engineers, Engineer Secretary.*

## LIST OF LIGHT-HOUSE DISTRICTS AND LOCAL OFFICERS.

Districts.	Limits of districts.	Inspectors.	Headquarters.	Engineers.	Headquarters.
Third....	Extending from Gooseberry Point, Massachusetts, to include Squam Inlet, New Jersey, as well as Lake Champlain and Hudson River.	James H. Strong, Commodore, United States Navy.	New York City..	Brevet Brigadier General I. C. Woodruff, Lieutenant Colonel of Engineers, United States Army.	Tompkinsville, Staten Island, N. Y.
Tenth....	From the mouth of St. Regis River, to include the Grassy Island Light-House, in Detroit River.	G. H. Scott, Commodore, United States Navy.	Buffalo, N. Y....	Brevet Lieutenant Colonel George L. Gillespie, Captain of Engineers, United States Army.	Buffalo, N. Y.
Eleventh.	Embracing all aids to navigation above Grassy Island Light-House, Detroit River.	Alexander Murray, Captain, United States Navy.	Detroit, Mich....	Brevet Brigadier General O. M. Poe, Major of Engineers, United States Army.	Detroit, Mich.

## LIST OF COLLECTORS OF CUSTOMS ACTING AS SUPERINTENDENTS OF LAKE LIGHTS.

G. J. Stannard..... Burlington, Vermont.	Richard F. Gaggin..... Erie, Pennsylvania.
William Emerson..... Rochester, New York.	John Youngs..... Sandusky, Ohio.
Charles C. P. Clark..... Oswego, New York.	P. S. Slevin..... Toledo, Ohio.
T. E. Ellsworth..... Suspension Bridge, New York.	P. G. Watnough..... Cleveland, Ohio.
R. W. Daniels..... Buffalo, New York.	George Jerome..... Detroit, Michigan.
S. P. Remington..... Ogdensburg, New York.	Hiram A. Burt..... Marquette, Michigan.
Jacob Parmerter..... Plattsburg, New York.	Samuel T. Hooker..... Milwaukee, Wisconsin.
David B. Owen..... Cape Vincent, New York.	James E. McLean..... Chicago, Illinois.
S. M. Matteson..... Dunkirk, New York.	H. C. Akeley..... Grand Haven, Michigan.
	John P. Sanborn..... Port Huron, Michigan.

## TO MARINERS.

TREASURY DEPARTMENT,  
OFFICE LIGHT-HOUSE BOARD, *Washington City, January 1, 1871.*

Mariners and others interested in commerce, and the preservation of life and property from loss by shipwreck on the coasts of the United States, are earnestly requested to give prompt information to the Inspectors or Superintendents of Lights, or, by direct communication to the Light-House Board, of cases in which lights are not lighted punctually at sunset and extinguished at sunrise, or in which they are not properly attended to during the night, or in which light-vessels or buoys are out of position, and of all cases in which the published instructions are not strictly complied with, that the Board may, with as little delay as possible, apply the proper remedy, and prevent neglect of duty on the part of persons connected with the lights, beacons, and buoys of the United States.

## LIGHTS ON NORTHWESTERN LAKES.

## TIME OF EXTINGUISHING IN THE WINTER AND RE-EXHIBITING THEM IN THE SPRING.

All lights of the United States in the river St. Lawrence, and on Lakes Ontario, Erie, St. Clair, Huron, Michigan, Champlain, and Superior, and their contiguous bays, &c., will be discontinued on the first day of January of each year, unless otherwise specially directed; and upon the opening of navigation in the localities above named, in each year, the light-keepers of the respective lights will exhibit the lights from sunset to sunrise of each night, as soon as it is practicable for vessels to enter the ports at or near which the lights are situated. The keepers of lights situated on islands on the Lakes will be governed, in exhibiting their lights on the opening of navigation in the spring of each year, by the action of the keepers on the mainland.

Light-keepers will be careful to note on their journals and quarterly returns the day on which their lights are exhibited upon the opening of navigation in the spring, and to conform strictly to the terms of the foregoing notice.

## REMOVING BUOYS IN THE FALL AND RESTORING THEM IN THE SPRING.

The buoys on the Lakes and adjacent navigable waters will be removed each year upon the closing of the navigation of the respective localities, and replaced in the spring as soon as the ice will permit.

TREASURY DEPARTMENT,  
*Office Light-House Board.*

## NOTES AND REFERENCES.

The lights of the United States are arranged in their regular geographical order from East to West, commencing at the first light nearest to the northeastern boundary, and following the sea-coast to the entrances of the sounds, bays, rivers, &c. The lights of each estuary are arranged in regular order from the sea to the head of navigation under separate references; after which the next sea-coast light will be found in its order. In some instances sea-coast lights have been repeated for convenience of reference.

The lights on the Northern Lakes are arranged in the order of location, commencing on Lake Champlain and proceeding westward.

The names of the lights are printed as follows, viz:

1. PRIMARY LAKE-COAST LIGHTS.
2. Harbor lights.

In the column of "Distance visible in statute miles" will be found the distances at which the lights can be seen, under ordinary states of the atmosphere, by observers at elevations of fifteen feet above the level of the sea. The courses given are *true*, and must be corrected by masters of vessels for *magnetic variation*.

## REFERENCES.

F.....Fixed or steady light.  
F. R.....Fixed red light.  
Flg.....Flashing light.  
F. V. F.....Short eclipse, or fixed light varied  
by flashes.  
F. & R. Flg Fixed white light, with red flashes.

Rev'g.....Revolving light.  
Mag. Var....Magnetic variation.  
N. North; S. South; E. East; W. West.  
Colored lights are specially noted by small CAPITALS in column of remarks.

[C 1] First order lens apparatus.  
[C 2] Second order lens apparatus.  
[C 3] Third order lens apparatus.  
[C 4] Fourth order lens apparatus.  
[C 5] Fifth order lens apparatus.  
[C 6] Sixth order lens apparatus.

LIGHTS OF THE UNITED STATES.  
NEW YORK AND VERMONT.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Fog signal.	Fixed or revolving, &c.	Interval of flash.
			N. ° ' "	W. ° ' "				
416	Benjamin's Place, No. 1.	Two miles from White Hall, Dresden, N. Y.			1		F	m. s.
417	Carey's Camp, No. 2.	Half a mile north of Benjamin's Place.			1		F	
418	Opposite Chapman's Dock, No. 3.	About four miles from Whitehall, Dresden, N. Y.			1		F	
419	South of Snoddy's Dock, No. 4.	One mile from No. 3.			1		F	
420	Steam Mill Point, No. 5.	Three-quarters of a mile north of No. 4, Dresden, N. Y.			1		F	
421	Long Beach, No. 6.	Half a mile north of No. 5.			1		F	
422	Head of Two Channels, No. 7.	Half a mile north of No. 6, Dresden, N. Y.			1		F	
423	Maple Bend, No. 8.	Three-quarters of a mile north of No. 7, Dresden, N. Y.			1		F	
424	Lower end of Two Channels, No. 9.	One-half of mile north of No. 8, Dresden, N. Y.			1		F	
425	Cold Spring, No. 10.	One mile north of No. 8.			1		F	
426	Chilson's Bend, No. 11.	Half a mile north of No. 9.			1		F	
427	Opposite Belden's Dock, No. 12.	Half a mile north of No. 11.			1		F	
428	Above Pulpit Point, No. 13.	One-half mile north of No. 12.			1		F	
429	Pulpit Point, No. 14.	One-fourth mile north of No. 12.			1		F	
430	Lower end of Four Channels and Narrows, No. 15.	One and one-quarter mile north of No. 14.			1		F	
431	Old Maid's Place, No. 16.	Three-fourths of a mile north of No. 15.			1		F	
432	Crown Point	On Crown Point, west side of Lake Champlain, N. Y.	44 03 00	73 28 17	1		F	
433	Barber's Point				1		F	
434	Split Rock	Near Essex, west side of Lake Champlain, N. Y.	44 12 00	73 18 00	1		F	
435	Juniper Island	On Juniper Island, south side of entrance to Burlington harbor, Vt.	44 27 00	73 13 00	1	A bell struck by machinery, and a horn sounded at intervals of five minutes.	F	
436	Burlington Beacon.	One on each end of Burlington breakwater, Vt.			1		F	
437	Burlington Beacon.	Off Colchester Point, Vt.			1		F	
438	Colchester Reef.	On Valcour Island, Vt.			1		F	
439	Bluff Point.	One on each end of Plattsburg breakwater.			1		F	
440	Plattsburg Beacon.	Near Plattsburg, west side of Lake Champlain, N. Y.	44 42 00	73 20 00	1		F	
441	Plattsburg Beacon.	On the shore at Point au Roche, in Lake Champlain, N. Y.	44 47 53	73 20 11	1		F	
442	Cumberland Head	On north end of Isle la Motte, Vt.			1		F	
443	Point au Roche	On Windmill Point, Vt., opposite Rouse's Point, N. Y.	44 58 58	73 20 11	1		F	
444	Isle la Motte	Near the mouth of the Oswegatchie River, in St. Lawrence River.	44 45 00	75 30 10	1		F	
445	Windmill Point	On Cross-over Island, St. Lawrence River.			1		F	
446	Ogdensburgh	On Sister Islands, St. Lawrence River.			1		F	
447	Cross-over Island	On Bush or Sunken Rock Island, in St. Lawrence River.			1		F	
448	Sister Islands	In St. Lawrence River.			1		F	
449	Sunken Rock	On the southeast side of the entrance to St. Lawrence River.	44 09 00		1		F	
450	Rock Island				1		F	
451	Tibbett's Point				1		F	
452	Galloo Island	On the west point of Galloo Island, N. Y.	43 51 00	76 26 30	1		F	
453	Sackett's Harbor	On the west end of Horse Island, and west of Sackett's Harbor, N. Y.	43 56 30	76 08 10	1		F	

NOTE.—All distances given in this list are in statute miles.

LIGHTS OF THE UNITED STATES.

NEW YORK AND VERMONT.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base to focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
416	9	Black		18	Lens lantern.	1856	1869			Portable beacon.
417	9	Red		18	Lens lantern.	1856	1869			Do.
418	9	White stake.		15	Lens lantern.	1856	1869			A stake light.
419	9	White stake.		15	Lens lantern.	1856	1869			Do.
420	9	Red		15	Lens lantern.	1856	1869			Portable beacon.
421	9	Red		18	Lens lantern.	1856	1869			Do.
422	9	R. & B., H. S.		18	Lens lantern.	1856	1869			Portable beacon; three red and black horizontal bands; center black; upper and lower red.
423	9	Red		18	Lens lantern.	1866	1869			Portable beacon in the marshy "narrows" at the head of Lake Champlain.
424	9	R. & B., H. S.		18	Lens lantern.	1856	1869			Portable beacon; three black and red horizontal bands; center red; upper and lower black.
425	9	Black		18	Lens lantern.	1856	1869			Portable beacon.
426	9	Red		18	Lens lantern.	1856	1869			Do.
427	9	Black		18	Lens lantern.	1856	1869			Do.
428	9	Black		18	Lens lantern.	1856	1869			Do.
429	9	Red		18	Lens lantern.	1856	1869			Do.
430	9	Black		18	Lens lantern.	1856	1869			Do.
431	9	Red		18	Lens lantern.	1869				Do.
432	16	Dark blue	55	85	(C) 5	1858				Tower of limestone, with keeper's dwelling of wood, connected by a covered way.
433										To be built.
434	17	Dark blue	32	100	(C) 4	1838	1867			Tower of limestone, with keeper's dwelling of wood, connected by a covered way.
435	17	White	30		(C) 4	1846		1856		Iron tower painted white.
436	10	White		21	(C) 6	1857				Two wooden beacons on breakwater.
437	10			21	(C) 6					Building.
438										To be built.
439										Two wooden beacons on breakwater.
440	10	White		32	(C) 6	1867				
441	10			32	(C) 6					
442	14	Dark blue	36	55	(C) 4	1837	1867			A tower and keeper's dwelling of limestone, connected by a covered way.
443	14	Gray	50	54	(C) 6	1858				A tower of limestone; keeper's dwelling of wood.
444	12	Dark blue	18	39	(C) 6	1857				
445	13	Dark blue	40	52	(C) 6	1858				
446	11	White	27	30	(C) 4	1834	1870		S. W. by W. by N'd and W'd to N. E. by E.	Tower, with dwelling attached, built of limestone on a low island one-fourth of a mile N. by W. of the mouth of the river. A shoal extends out northerly from the island.
447	12	White	25	37	(C) 4	1847	1855		S. by W. by W'd and N'd to E. by S.	River light, light on keeper's dwelling of brick. Crossover Island is on the north side of the channel, and 20 miles S. W. from Ogdensburg.
448	12	Gray	40	43	(C) 6	1870			Entire horizon	
449	11	White	28	31	(C) 6	1847	1855		S. S. W. by W. and N. to E. by S.	River light; frame beacon whitewashed on pier of protection on Bush Island or shoal 1/4 mile north Alexandria Bay.
450	12	White	27	39	(C) 6	1847	1855		S. W. by S. by W'd and N'd to E. by S.	River light; keeper's dwelling of brick, with light on top. Bears from Alexandria Bay S. by W., distant about 7 miles.
451	15	White	47	67	(C) 4	1827	1854		N. E. 1/2 E. by N'd to S. S. W. 1/2 W.	Lake-coast and river light; brick dwelling connected with brick tower by covered way; whitewashed; Galloo Island S. by W. 19 miles; Charity Island Day Beacon S. W. by W., distant 8 miles; Pigeon Island W. 1/2 S., distant 10 miles.
452	14	Gray	55	62	(C) 4	1820	1866		N. E. by N'd and W'd to E.	Lake-coast light; tower and dwelling of limestone, connected by covered way. A shoal lies N. by W., distant 1 mile, and marked by a buoy.
453	12	White	31	42	(C) 5	1831	1870		S. 1/2 W. by N'd and W'd to E. by N.	Sackett's Harbor, N. Y. Dwelling with tower attached of brick. The island (which contains about 27 acres) is on the south side of entrance to harbor, one and half a mile west of Sackett's Harbor, and is connected with the mainland by a narrow spit visible at low water.

## LIGHTS OF THE UNITED STATES.

## NEW YORK AND VERMONT—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Fog signal.	Fixed or revolving, &c.	Interval of flash.
			N. ° ' "	W. ° ' "						
454	Stony Point .....	On Stony Point, N. Y. ....	43 51 00	76 18 00	1			F. V. F. ....	m. s. 2.00	
455	Oswego .....	Near the end of west pier, at the entrance to Oswego harbor, N. Y. }	43 28 00	76 30 00	1			F. ....		
456	Pier Head .....									
457	Big Sodus Beacon, front.									
458	Big Sodus Beacon, rear.									
459	Big Sodus Bay .....	At Sodus Point, west side of Sodus harbor, N. Y. ....	43 17 00	77 00 00	1			F. V. F. ....	2.00	
460	Genesee .....	West side of entrance to Genesee River, N. Y. ....	43 15 30	77 36 00	1			F. ....		
461	Genesee Beacon .....	On end of west pier, at entrance to Genesee River, N. Y. ....	43 16 00	77 35 00	1			F. ....		
462	Oak Orchard .....	At the junction of Niagara River and Lake Ontario, N. Y. ....	43 15 00	79 03 00	1			F. ....		
463	Niagara Fort .....									
464	Horse-shoe Reef .....	On Horse-shoe Reef, at the entrance to Niagara River. ....			1		A horn sounds at intervals of 5 minutes.	F. V. F. ....	1.30	
465	Buffalo Breakwater, north end.				1					
466	Buffalo Breakwater, south end.				1					
467	Buffalo .....	Near the end of south pier head at junction of Buffalo Creek and Lake Erie, N. Y. ....	42 53 00	78 56 00	1		A bell struck at intervals of 10 seconds.	F. ....		
468	Dunkirk .....	At Dunkirk, on the southeast shore of Lake Erie, N. Y. ....	42 29 45	79 22 30	1		A bell .....	F. V. F. ....	1.30	
469	Dunkirk Beacon .....	On pier west side of entrance to Dunkirk Harbor, N. Y. ....	42 30 00	79 21 52	1			F. ....		

## PENNSYLVANIA AND OHIO.

470	Erie Harbor .....	South shore of Lake Erie; marks the approach to eastern entrance to Presqu'le Bay, and about one mile to the N'd and E'd of Erie, Pa. ....	42 08 43	80 04 16	1			F. ....	
471	Presqu'le Beacon Range, No. 1.	On east end of north pier, on the north side of entrance to Presqu'le Bay, Erie, Pa. ....	42 09 17	80 05 08	1			F. ....	
472	Presqu'le Beacon Range, No. 2.								
473	Peninsula Beacon Range, No. 1.	On the peninsula, northwest of north pier. ....			1			F. ....	
474	Peninsula Beacon Range, No. 2.								
475	Conneaut .....	End of east pier, at mouth of Conneaut River, Ohio. ....	41 59 05	80 32 30	1			F. ....	
476	Ashtabula .....	On the east pier, at the entrance to Ashtabula River, Ohio. ....	41 54 50	80 47 00	1			F. V. F. ....	2.00

NEW YORK AND VERMONT—Continued.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base of focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
454	12	Gray.....	33	43	[⊙ 5]	1837	1869	.....	S. S. W. by W'd to N. E.	Lake coast light; tower and dwelling attached; limestone; shore rocky and dangerous, and can only be approached in small boats in smooth weather. Oswego light S. by W. 35 miles.
455	15	Gray.....	66	72	[⊙ 3]	1837	1869	.....		Lake coast and harbor light; keeper's dwelling ashore; frame; tower and oil-room attached, of limestone, on west pier of entrance, five hundred (500) feet from pier head. Pier head marked by a hanging lantern that runs on wire stretched from main light to top of mast fixed in the pier head.
456	.....	Spar.....	.....	.....	Lantern	1870	.....	.....		
457	9	.....	8	.....	[⊙ 6]	1858	1870	.....		The lights are placed in two small frame towers on the west pier of the entrance; both lights are white. Range for entering the harbor and to keep clear of the old west pier head.
458	10	.....	18	.....	[⊙ 6]	1858	1870	.....		
459	15	White.....	45	68	[⊙ 4]	1825	1870	.....		
460	16	White.....	37	81	[⊙ 4]	1822	1858	.....		Lake coast light; tower and dwelling attached; two stories; dark gray limestone; situated on bluff one mile west of entrance piers to harbor.
461	11	White.....	23	28	[⊙ 6]	1822	.....	1855	.....	Tower of rubble masonry, whitewashed, with keeper's dwelling of brick attached by covered way; natural color. Frame structure placed about 100 feet from head of west pier.
462	.....	.....	.....	.....	.....	.....	.....	.....	.....	Building.
463	16	White.....	44	78	[⊙ 4]	1813	.....	1867	.....	Light on mess-house, Fort Niagara.
464	13	White.....	50	50	[⊙ 4]	1856	.....	.....	Entire horizon...	Harbor and river light. An elevated iron beacon, with keeper's dwelling on masonry pier of protection, with ice guard on N. and W. faces, built upon Horseshoe Reef Shoal, forming southern end of middle reef which separates Canadian from Emerald channel. It bears S. 30° E. from Fort Erie, Canada, and from Buffalo light W. by N. 5°. Fog horn sounds every five minutes during foggy weather.
465	.....	.....	.....	.....	[⊙ 6]	.....	.....	.....	Entire horizon...	Building.
466	.....	.....	.....	.....	[⊙ 6]	.....	.....	.....	Entire horizon...	Authorized.
467	15	Gray.....	51	65	[⊙ 3]	1828	.....	1857	N. by W. $\frac{1}{4}$ W. W'd to S. by E. $\frac{1}{4}$ E.	Lake-coast and harbor light; tower of limestone near pier head of south pier of entrance to harbor; dwelling of brick on light-house lot on south bank of Buffalo Creek near its mouth; fog bell at tower struck by machinery at intervals of ten (10) seconds.
468	16	White.....	50	87	[⊙ 3]	1837	1857	869	E. N. E. N'd to S. W. $\frac{1}{4}$ W.	Lake-coast and harbor light; tower and dwelling of brick connected by covered way, whitewashed, situated on bluff $\frac{1}{4}$ mile west of entrance to harbor.
469	12	White.....	25	40	[⊙ 6]	1837	.....	1844	N. E. by N. $\frac{1}{4}$ N. N'd to W. by N.	Harbor light; frame beacon, whitewashed, on pier of protection at pier head of west pier of entrance to harbor channel two hundred (200) feet wide. On west side near beacon dangerous rocks outcrop, with 8 or 9 feet of water, and on the east (inside) lies the ruins of an old breakwater with 10 feet of water.

PENNSYLVANIA AND OHIO.

470	19	Gray.....	60	128	[⊙ 3]	1838	1867	.....	E. N. E. N'd to W. by S.	Lake-coast and harbor light; tower and oil room attached of light-colored sandstone; dwelling detached; of brick; marks approach to Erie Harbor; shore line obscured for a distance of three hundred (300) yards.
471	13	White.....	30	38	[⊙ 5]	1857	.....	.....	N. $\frac{1}{4}$ E. W'd to W. S. W.	Harbor light. Cast-iron tower on pier of protection near east pier head of north pier of entrance to harbor channel between piers two hundred (200) feet wide, giving thirteen (13) feet of water. The light is obscured from Peninsula Point round by W. to near line of north pier produced inside of harbor.
472	7	White.....	4	8	[⊙ 6]	1856	1869	.....	E. $\frac{1}{4}$ N. S'd to N. by W.	Octagonal frame tower, painted white, and dome red, on west end of north pier, arc, 212°. The two lights on the north pier form a range for entering harbor, and their intersection with the two on the Peninsula north of the north pier marks the channel across the bar inside of the pier.
473	7	White.....	7	10	[⊙ 6]	1856	1869	1870	W. $\frac{1}{4}$ S. S'd to S. W. by S. $\frac{1}{4}$ S.	Presque Isle Peninsula beacon range lights; white masts with red boxes, showing lights only along the range on the inside of piers, illuminating an arc of 60°.
474	7	White.....	11	10	[⊙ 6]	1856	1869	1870		
475	12	White.....	34	41	[⊙ 6]	1835	1858	.....	E. N. E. N'd to W. by S. $\frac{1}{4}$ S.	Harbor light; frame beacon, whitewashed, on pier of protection behind east pier of entrance to harbor.
476	12	White.....	28	42	[⊙ 5]	1835	1858	.....	E. N. E. N'd to W. S. W.	Harbor light; frame beacon, whitewashed, on pier of protection, on east pier of entrance to harbor. No dwelling.

LIGHTS OF THE UNITED STATES.  
PENNSYLVANIA AND OHIO—Continued.

Number.	Name.	Location.	Latitude.	Longitude.	Number of lights and relative positions.	Fog signal.	Fixed or revolving, &c.	Interval of flash.
			° N. ' "	° W. ' "				
477	Grand River, Fairport.	At Fairport, on the east side of the mouth of Grand River, Ohio.	41 45 20	81 14 41	1		F	
478	Grand River, Fairport Beacon.	At Fairport, on the east side of the mouth of Grand River, Ohio.	41 45 45	81 15 15	1		F	
479	Cleveland	On the hill, east of the entrance to the harbor.	41 30 08	81 42 32	1		F	
480	Cleveland Beacon, No. 1.	On east pier, at the entrance to Cleveland Harbor, Ohio.	41 30 17	81 43 01	1		F. V. R. F.	0.20
481	Cleveland Beacon, No. 2.				1		F	
482	Black River	On end of west pier, at mouth of Black River, Ohio.	41 28 40	82 08 45	1		F	
483	Vermillion	On the west pier, at Vermillion Harbor, Ohio.	41 26 00	82 20 45	1		F	
484	Huron	At the mouth of Huron River, Ohio, on the west pier.	41 24 01	82 32 20	1		F	

OHIO AND MICHIGAN.

485	Cedar Point	On Cedar Point, east side of the entrance to Sandusky Bay, Ohio.	41 29 13	82 41 09	1		F	
486	Cedar Point Range Beacon.				1		F	
487	Marblehead	On Marble Head, north side of Sandusky Bay, Ohio.	41 32 30	82 42 15	1		F	
488	Green Island	On west end of Green Island, Lake Erie.	41 38 45	82 51 25	1		F. V. F.	2.00
489	West Sister	On west end of West Sister Island, Lake Erie.	41 44 15	83 06 12	1		F	
490	Turtle Island	At the entrance to Maumee Bay, Ohio.	41 45 12	83 22 54	1		F	
491	Maumee outer range, front.	West side Maumee River.			1	1,000 ft. apart.	F	
492	Rear.				1	N. 84° 30' W.	F	
493	Maumee middle range, front.	West side Maumee River, 1/4 mile below former.			1	1,000 ft. apart.	F. red	
494	Rear.				1	S. 69° 45' W.	F. red	
495	Maumee inner range, front.	East side Maumee River, 2 miles south of middle range.			1	1,000 ft. apart.	F	
496	Rear.				1	N. 23° 22' E.	F	
497	Monroe	On the north pier, at the entrance to River Raisin, Michigan.	41 53 29	83 19 28	1		F	
498	Gibraltar	West side of entrance to Detroit River, Michigan.	42 05 30	83 10 38	1		F	
499	Mamejuda	On Mamejuda Shoals, in Detroit, Michigan.	42 11 34	83 07 49	1		F	
500	Grassy Island	On Grassy Island, in Detroit River, Michigan.	42 13 25	83 07 38	1		F	
501	Windmill Point	On Windmill Point, west side of Detroit River, and entrance to Lake St. Clair, Michigan.	42 21 20	82 53 20	1		Fixed white, varied by red flashes.	1.30
502	St. Clair Flats	At the head of the "cut" or artificial channel through St. Clair Flats.	42 33 00	82 13 30	1		F	
503	Beacon	In front of main light, to form a range in passing through the old artificial channel.			1	1,000 feet apart; N. 58° E. S. 56° W.	F	

PENNSYLVANIA AND OHIO—Continued.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base to focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
477	17	White	60	100	[C] 3	1825	1858		N. E. by E. $\frac{1}{2}$ E. N'd to W. $\frac{1}{2}$ S.	Lake-coast and harbor light; stone tower with attached dwelling in course of construction, situated on bluff on east bank of Grand River, $\frac{1}{4}$ mile from its mouth.
478	11	White	21	27	[C] 6	1835		1867	E. by N. N'd to W. by S.	Harbor light; frame beacon, whitewashed, on pier of protection behind east pier of entrance to harbor.
479	10	White	56	135	[C] 34	1829		1850	N. E. $\frac{1}{2}$ E. N'd to W. $\frac{1}{2}$ N.	Lake-coast and harbor light, situated on hill in the city of Cleveland, east of entrance to Cuyahoga River.
480	13	White	40	48	[C] 6	1831	1861	1854	E. by N. $\frac{1}{4}$ N. N'd to W. by S. $\frac{1}{4}$ S.	Harbor light; octagonal frame tower, whitewashed, on pier of protection behind east pier of entrance to harbor; small temporary light on east pier-head forms range for entering harbor.
481					Lantern					
482	13	White	40	48	[C] 4	1836	1857	1857	E. by N. $\frac{1}{4}$ N. N'd to W. by S. $\frac{1}{4}$ S.	Lake-coast harbor light; tower of brick on west pier of entrance to Black River, whitewashed; elevated walk above pier connects tower with the shore. No dwelling.
483	11	White	20	25	[C] 6	1847	1850	1856	E. by N. $\frac{1}{4}$ N. N'd to W. S. W.	Harbor light; frame beacon painted white on pier of protection behind west pier of entrance to Vermillion River. No dwelling.
484	12	White	40	40	[C] 4	1835	1857	1857	E. by S. N'd to N. W. $\frac{1}{4}$ W.	Harbor light; cast-iron tower painted white, on pier of protection behind west pier of entrance to Huron River; elevated walk fifteen hundred (1,500) feet long connects beacon with shore. No dwelling.

OHIO AND MICHIGAN.

485	12	White	21	38	[C] 5	1839	1862		S. E. $\frac{1}{2}$ E. N'd to N. N. W.	Lake-coast and harbor light; keeper's dwelling of limestone with light on top; east side of entrance to Sandusky Bay.
486	11	White	16	26	[St. C]		1867		S. W. $\frac{1}{4}$ W. N'd to N. E. $\frac{1}{4}$ E.	Light on keeper's dwelling; frame dwelling painted white, the outer face paneled to traverse the light at pleasure; stands in five (5) feet of water on an insulated shoal, and is surrounded by pier of protection. Forms a range N. 37° E. with Cedar Point light for crossing outer bar.
487	14	White	55	60	[C] 4	1831		1858	S. S. E. E'd and N'd to N. W. by W. $\frac{1}{4}$ W.	Lake-coast and harbor light; dwelling and tower detached of rubble masonry and whitewashed, situated on extreme eastern point of peninsula on north side of entrance to Sandusky Bay.
488	14	Gray	43	57	[C] 4	1854	1864		Entire horizon	Lake-coast light; dwelling and tower attached of limestone; Marblehead S. E. $\frac{1}{4}$ E. 10 m.; mouth of Detroit River N. W. by N. $\frac{1}{4}$ N. 30 miles.
489	13	Gray	44	51	[C] 4	1847		1857	Entire horizon	Lake-coast light; dwelling and tower attached of limestone, 12 miles east of Maumee River; Green Island S. E. by E. $\frac{1}{2}$ E. 14 miles.
490	13	Yellow	44	50	[C] 4	1831	1867	1857	Entire horizon	Lake-coast and harbor light; dwelling and tower attached; Milwaukee brick, natural color, situated upon south and west end of Turtle Island, nine (9) miles distant from Toledo, Ohio; West Sister, E. $\frac{1}{4}$ S. 12 miles; mouth of Detroit River N. E. by N. 18 miles.
491	10	White	12	18	[C] 6	1868			S. W. $\frac{1}{4}$ W. N'd to N. W. $\frac{1}{4}$ N.	Frame structures, painted white; the outer ones traversed on short railways. These ranges mark the channel from the bay into Maumee River. Care must be taken not to mistake the middle range—both lights of which are red—for the outer and inner ranges, which are composed of white lights.
492	11	White	24	28	[C] 6	1868			S. W. by S. $\frac{1}{4}$ S. N'd to N. W. by W. $\frac{1}{4}$ W.	
493	10	White	12	18	[C] 6	1868			N. N. W. E'd to E. N. E.	
494	11	White	21	26	[C] 6	1868				
495	11	White	12	24	[C] 6	1868				
496	11	White	21	32	[C] 6	1868				
497	12	White	36	42	[C] 4	1840		1867	S. S. W. N'd and E'd to N. N. E.	Frame tower, painted white, with keeper's dwelling attached.
498	14	White	42	52	[C] 4	1838		1835		Detached tower of rubble masonry, whitewashed.
499	12	White	34	33	[C] 6	1849	1866	1867	N. E'd and S'd to W. by S.	Keeper's dwelling frame, painted white, with light on top; pile foundation.
500	12	White	29	33	[C] 6	1849	1857	1867	W. by N. N'd and E'd to S. by W.	Keeper's dwelling frame, painted white, with light on top; pile foundation.
501	13	White	45	47	[C] 5	1838		1867	S. 56 W. by S. to E. 56 N.	Rubble-masonry tower, whitewashed. Keeper's dwelling detached. A guide to Lake St. Clair and the Detroit. With the light abeam, steer E. N. E. $\frac{1}{4}$ mile, then N. E. $\frac{1}{4}$ N. 13 miles, which should bring the southern buoys on the flats and the lights in range; bearing N. E. by E., with these in range, stand into the channel between the buoys.
502	13	Yellow	37	44	[C] 4	1859			Entire horizon	A white light. Tower connected to keeper's dwelling, built of Milwaukee brick, on a pier foundation. Guide to the north entrance of the cut or artificial channel, which can be entered from 2 to 8 miles from the light-house.
503	11	Yellow	23	26	[C] 5	1859				Small tower of Milwaukee brick, on pier foundation. With preceding, forms a range to enter the cut.

OHIO AND MICHIGAN—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Fog signal.	Fixed or revolving &c.	Interval of flash.
			N.	W.	N.	W.				
504	*ST. CLAIR FLATS; new straight cut; lower light.	On the port side of lower entrance to "new cut."					1		F	m. s.
505	UPPER LIGHT.....	On the port side of the upper end of "new cut."					1		F	
506	{ Port Gratiot.....	At the head of St. Clair River, Michigan.	42 00 22	82 24 41			1		F. V. F.	2.00
507	{ Point aux Barques...}	On eastern side of entrance to Saginaw Bay, Michigan.	44 01 23	82 47 10			1		F	
508	{ Tawas, (Ottawa)....}	On Ottawa Point, northwest shore of Saginaw Bay, Mich.	44 15 35	82 26 15			1		F. white, varied by red flashes.	1.30
509	{ Charity Island.....}	At the mouth of Saginaw Bay, Michigan.	44 02 16	83 26 05			1		F	
510	{ Saginaw Bay.....}	At the mouth of Saginaw River, Michigan. }	43 38 38	83 50 54			1		F	
511	{ Saginaw Range, front.....}						1		F	
512	{ Rear.....}						1		F	
513	{ Sturgeon Point.....}	On the western shore of Lake Huron, 4 miles north of Harrisville.	44 42 49	83 16 00			1		F	
514	{ Thunder Bay Island..}	On Thunder Bay Island, north side of entrance to Thunder Bay, Michigan.	45 02 17	83 11 13			1	A bell struck by machinery.	Rev'g	1.30
515	PRESQUE ISLE HARBOR, front light.						1	} 1,000 feet apart, E. and W. }	F	
516	REAR LIGHT.....						1		F	
517	{ Presque Isle.....}	About 25 miles northwest of Thunder Bay light, Michigan.	45 21 30	23 29 19			1		F	
518	{ Spectacle Reef.....}	On Spectacle Reef, to the eastward of the entrances to the Straits of Mackinac, in Lake Huron.								
519	{ Bois Blanc.....}	On the north side of Bois Blanc Island, in the Straits of Mackinac, Michigan.	45 48 35	84 24 36			1		F	
520	{ Cheboygan.....}	On the mainland, opposite to Bois Blanc Island, marking the eastern entrance to the Straits of Mackinac, Michigan.	45 40 9	84 24 36			1		F. V. F.	1.30
521	{ McGulpin's Point....}	Near Old Mackinac, in the Straits of Mackinac, on the southern side of the entrance to Lake Michigan.	45 47 13	84 45 49			1		F	
522	{ Detour.....}	At the mouth of the river Sault Ste. Marie, Lake Huron, Michigan.	45 57 20	83 54 22			1	A horn	F	

\* Two temporary lights in place of those building.

OHIO AND MICHIGAN—Continued.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base to focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
504										Building on lower end of pier, south side of new cut.
505										Building on upper end of pier, on south side of new cut.
506	16	White.....	76	82	[⊙ 3]	1825		1862	S. by E. by E'd to N. 22 W.	Marks entrance from Lake Huron into St. Clair River. Sand Beach Point, N. by W. 60 miles; Cove Island light (Canada) N. by E., 165 miles; Point Clark (Canada) N. N. E. ½ E., 82 miles; Goderich (Canada) N. E. by N. 63 miles.
507	16	Yellow.....	79	88	[⊙ 3]	1847	1857		N. 56 W. by E'd to E. 34 S.	Coast light and marks the turning point for vessels entering Saginaw Bay; Sturgeon Point light bears N. N. W. 54 miles; Thunder Bay Island light, N. by W. ½ W. 73½ miles; Point Clark light (Canada) E. ½ N. 53 miles; Chantry Island light (Canada) N. E. by ½ E. 76 miles.
508	14	White.....	45	54	[⊙ 5]	1853		1856	N. 45 E. by E. by S. to S. 34 W.	Brick tower, whitewashed; keeper's dwelling of brick, detached. This light is on the eastern point of the entrance to Tavvas Bay; a sand flat extends ¼ mile to the southward and westward from the light; Charity Island light bears south 15½ miles; Point Douglass (Canada) E. ½ N. 92 miles; Cape Hurd (Canada) N. E. ½ E. 108 miles.
509	13	White.....	39	45	[⊙ 4]	1857			S. 11 W. by N. to E. 34 S.	This light is on the north 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; Ottawa Point light bears north 15½ miles; Saginaw Bay light-house S. W. ½ S. 34 miles.
510	15	White.....	64	72	[⊙ 4]	1841		1863	N. 55 W. by N'd to E.	This light is on the west side of Saginaw River, near its mouth. Vessels bound into the river, when in 3 fathoms water, should bring the light to bear S. by W. about 3½ miles distant, and steer that course for the red can buoy at the north entrance of the cut, which is 6,800 feet long and 195 feet wide, ranging S. ½ W. and N. ½ E. Both banks are marked by buoys, between which a vessel must be steered towards the mouth of the river; Sand Point bears N. E. ½ E. 29 miles; Point aux Gres, N. by E. ½ E. 25 miles. Building.
511					[⊙ 6]					
512					[⊙ 6]					
513	15	Yellow.....	65	69	[⊙ 3½]	1869			S. 11 W. by E'd to S. 5 W.	Tower and keeper's dwelling connected, built of Milwaukee brick. Thunder Bay Island light bears N. by E. 23 miles; Point aux Barques light, S. S. E. ½ E. 54 miles; Goderich (Canada) S. E. ½ E. 104 miles; Cove Island light (Canada) N. E. by E. ½ E. 87 miles.
514	14	White.....	56	59	[⊙ 4]	1832		1857	Entire horizon...	On the S. E. point of the island. Vessels must not attempt to pass to the westward of this light; Middle Island bears N. N. W. ½ W. 12 miles; Sturgeon Point light, S. by W. 23 miles; Great Duck Island (Canada) N. by E. ½ E. 43 miles; Cove Island light (Canada) E. N. E. ½ E. 74 miles.
515	11	White.....	16	18	[⊙ 6]	1870			} N. 71° E. by S. to E. 22 S.	Front light in wooden tower; rear light on keeper's frame dwelling. In approaching the entrance to the harbor, when in 7 fathoms water, bring the two lights in range, and run in on that line to the anchorage.
516	12	White.....	25	36	[⊙ 6]	1870				
517	19	Red.....	100	123	[⊙ 3]	1840	1870		S. 52° W. by E'd to N. 83° W.	A coast light on the northern point of the peninsula. The buildings consist of a tower of red brick, with a keeper's dwelling attached, of Milwaukee brick. The Detour light bearing N. N. W. ½ W., 48 miles; the east point of Isle Bois Blanc, N. W. ½ W., 52 miles; Spectacle Reef, N. W. ½ W., 44 miles; the center of the Great Duck (Canada) N. E. ½ E., 31½ miles.
518					[⊙ 2]					Building.
519	14	Yellow.....	38	53	[⊙ 4]	1839	1867		W. 11 N. by N. to E. 40 S.	Keeper's dwelling of Milwaukee brick, with tower attached; a guide to the north channel of Mackinac; the Detour light bearing E. N. E. 26 miles; the south point of Garden City Reef, N. E. by E. ½ E., 14½ miles; Spectacle Reef, E. S. E. ½ E., 13½ miles; Fort Mackinac, W. N. W. ½ W., 9½ miles.
520	12	White.....	33	37	[⊙ 5]	1851	1859		W. 11 N. by N. to E. 6 S.	Light on keeper's wooden dwelling. Marks entrance into the south channel of the Straits of Mackinac. The south point of Isle Bois Blanc bears north, and the channel opposite the light is 3 miles wide. Old Fort Mackinac on the main, N. W. by W. ½ W., 16½ miles.
521	18	Yellow.....	38	102	[⊙ 3½]	1868			W. 22 S. by N. to E.	Tower of Milwaukee brick, with keeper's dwelling attached. To mark turning point in Straits of Mackinac, 2½ miles west of Old Fort Mackinac, and a guide through the straits. The channel abreast of the light is 3 miles wide; the South Graham Shoal, N. E. ½ E., 4½ miles; Isle of St. Helena, N. W., 6 miles; Waughoshance, W., 15½ miles.
522	15	White.....	70	75	[⊙ 3]	1847	1861	1870	N. 22 E. by S'd to W. 11 S.	Iron-pile structure. Keeper's dwelling wood, painted white. Marks entrance from Lake Huron into St. Mary's River. The south point of Garden City Reef, W. S. W. ½ W., 11½ miles; Spectacle Reef, S. W. ½ S., 17 miles; Bois Blanc light, W. S. W., 26 miles; Cheboygan light, S. W. ½ W., 31½ miles; Presque Isle light, S. S. E. ½ E., 47½ miles; Chantry Island light (Canada) S. E. ½ E., 160 miles; Goderich (Canada) S. E. by S., 190 miles.

MICHIGAN AND INDIANA.

Number.	Name.	Location.	Latitude north.	Longitude west.	Number of lights and relative positions.	Fog-signal.	Fixed or revolving, &c.	Interval of flash.	
			° N. ' "	° W. ' "				m. s.	
523	Waugoshance .....	On Waugoshance shoal, in the Straits of Mackinac, and near the entrance to Lake Michigan.	45 47 13	85 4 56	1	A bell struck by machinery.	F. V. F. ....	1. 30	
524	Skilligallee, (Ile aux Galets.)	On the Skilligallee Rock, (Ile aux Galets.) 8 miles S. S. W. $\frac{1}{2}$ W. from Waugoshance light, and 6 miles from the mainland, Michigan.	45 40 34	85 9 46	1	A horn sounded at intervals of 5 minutes.	F. ....		
525	Beaver Island Harbor	On the north point of the entrance to the harbor.	45 44 36	85 30 6	1		Red .....		
526	Beaver Island .....	On the south end of Beaver Island, Lake Michigan.	45 34 26	85 33 59	1		F. V. F. ....	1. 00	
527	South Fox Island....	On the extreme southeast end of South Fox Island, Michigan.	45 22 40	85 49 30	1		Red, F. V. F. ....		
528	Grand Traverse .....	On northwest point of Grand Traverse Bay, Michigan.	45 12 24	85 24 30	1		F. ....		
529	Mission Point.....	On the north point of the peninsula dividing Grand Traverse Bay, Michigan.			1		F. ....		
530	South Manitou .....	On South Manitou Island, near the east shore of Lake Michigan.	45 00 26	86 04 29	1	A bell struck by machinery.	F. ....		
531	Point Betsey .....	On Point aux Bees Scies, 25 miles south by west $\frac{1}{2}$ west of South Manitou Island, east side of Lake Michigan.	44 41 40	86 14 45	1		F. V. F. ....	1. 30	
532	Manistee .....	North side of Manistee river, east shore of Lake Michigan, 16 miles north of Grande Pointe au Sable.	44 15 37	86 19 37	1		F. ....		
533	Grande Pointe au Sable.	On Grande Pointe au Sable, 45 miles south of Point Betsey light, east shore of Lake Michigan.	44 03 25	86 28 00	1		F. ....		
534	Pere Marquette.....	At Ludington on the east side of Lake Michigan, 8 miles south of Grande Pointe au Sable, Michigan.			1		F. red .....		
535	Muskegon.....	At the mouth of Muskegon River, east shore of Lake Michigan.			1		F. ....		
536	Grand Haven.....	At the south side of the mouth of Grand River, 30 miles north of Kalamazoo, Michigan.	43 03 27	86 14 23	1	A bell struck by hot air engine.	F. V. F. ....	1. 30	
537	Beacon.....	On the pier at Grand Haven.			1				
538	Holland, (Black Lake)	At the mouth of Black Lake, east shore of Lake Michigan.			1			F. red .....	

LAKE MICHIGAN.

MICHIGAN AND INDIANA—Continued.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base to focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
523	15	Yellow	65	74	(C) 4	1851			Entire horizon	Keeper's dwelling and lower part of the tower RED; upper part of the tower YELLOW. Marks Waughan shoal and turning point at western end Straits of Mackinac. St. Helena reef, N. E. by E., 9½ miles; the southwest end of Manitowishkeag shoal, N. ½ E., 12 miles; the east end of Simmon's reef, N. N. W. ½ W., 10½ miles; White Shoal, N. W. ½ N., 4½ miles; Gray's reef, W., 5½ miles; Hog Island reef, W. S. W. ½ W., 12½ miles; Skilligalee light, S. S. W. ½ W., 8 miles.
524	18	Yellow	100	106	(C) 3	1850	1867	1867	Entire horizon	A brick tower, dwelling detached, all of Milwaukee brick. A guide to and from the Straits of Mackinac, 5½ miles from the Michigan shore; reefs extend from the light, N. W., 11 miles, and N. E. by E., 1½ miles. The east end of Hog Island reef bears W. N. W., 8½ miles; the east end of Gray's reef, N. ½ W., 7½ miles.
525	12	White	34	37	(C) 4	1856	1870	1870	E. 11 N. by E. to S. 22 E.	Brick tower and dwelling; guide to anchorage Beaver harbor. Skilligalee light bears E. by S. ½ S., 15½ miles. This course would pass ½ of a mile south of Hog Island reef; Hog Island reef, E. ½ S., 7½ miles. The entrance to Little Traverse Bay, S. E., 31 miles.
526	16	Yellow	40	103	(C) 4	1851	1858	1858	E. 11 S. by S. to W. 11 N.	A guide through the passage between the Beaver and North Fox Islands. This channel is 9½ miles wide; the Grand Traverse light, S. ½ E., 25 miles; the South Fox Island light, S. W. ½ W., 18 miles; Pilot Island light, W. S. W. ½ W., 60 miles; Rock Island light, W. by S., 62 miles.
527	15	Yellow	39	68	(C) 4	1867			N. 34 W. by S. to N. 3 E.	A guide through the passage, 16 miles wide, between South Fox and North Manitowishkeag Islands. From the light a bank extends south 9½ miles, which is from 1½ to 1¼ miles wide; the soundings are from 4 to 6 and 8 fathoms. To the east, south, and west of the bank there is from 20 to 30 fathoms of water. Close to, on the bank, there are two small shoals, bearing, respectively, from the light S. by W., 4½ miles with 13 feet, and S. ½ W., 7½ miles with 16 feet; Grand Traverse light, S. E. ½ E., 20 miles; the northwest point of North Manitowishkeag, S. W. ½ S., 20 miles; Pottawatomie light (Rock Island) W. ½ N., 48 miles.
528	12	Yellow	34	40	(C) 4	1852	1858	1870	W. 23 S. by N. to E. 45 S.	Light on keeper's dwelling. Shows position of Cat Head Point, and is a guide to Grand Traverse Bay and to the passage between the Manitowishkeag and Sleeping Bear. The N. E. point of the North Manitowishkeag, W. by S., 23 miles; Pilot Island light, W. ½ N., 67 miles.
529	13	White	35	48	(C) 5	1870			S. 80 W. by E. to E. 30 S.	Light on keeper's frame dwelling. A guide into the east and west arms of Grand Traverse Bay. Reef extends from this point northward 1½ mile. Northport N. 32° W., distant 11½ miles. Elk Rapids S. 25° E., distant 7 miles.
530	15	Yellow	35	64	(C) 4	1839	1858	1858	N. 34 E. by E. & S. to W. 34 S.	Light on keeper's dwelling. Guide to anchorage of South Manitowishkeag harbor, and showing the passage between it and the east shore of Lake Michigan, (6½ miles wide) also the channel between the North and South Manitowishkeag Islands, (3 miles wide; Point Betsie light, S. by W. ½ W., 24 miles; Sleeping Bear, S. by E. ½ E., 7½ miles.
531	13	Yellow	34	44	(C) 4	1858			N. 45 E. by N. & W. to S.	Pilot Island light, N. W. ½ N., 45 miles; Cana Island light, N. W. ½ W., 40 miles.
532	13	White	35	44	(C) 5	1869			N. 44 E. by W. to S. 20 ½ W.	Light on keeper's wooden dwelling, painted white. Guide to entrance of Manistee harbor; Cana Island light, N. N. W. ½ W., 69 miles; Manitowishkeag light, W. by S., 67 miles; Sheboygan light, S. W. by W. ½ W., 79 miles; Grand Point au Sable light, S. W. ½ S., 17 miles.
533	18	Yellow	100	106	(C) 3	1867			N. 34 E. by W. to S. 11 E.	Tower of Milwaukee brick. Keeper's dwelling detached; top of lantern black; Petite Pointe au Sable, S. ½ W., 29 miles; Cana Island light, N. by W. ½ W., 76 miles; Manitowishkeag light, W. ½ N., 57 miles; Sheboygan light, W. S. W. ½ W., 65 miles.
534	11	White	29	36	(C) 5	1870				Wooden tower on the end of the south pier. A guide into the harbor.
535	13	White	37	45	(C) 4	1851	1870	1870	N. 30 W. by W. to S. 11 E.	Light on keeper's frame dwelling on south side of Muskegon River. A guide to the artificial cut into Lake Muskegon; Twin Rivers, N. W. ½ W., 76 miles; Kenosha, S. W. ½ W., 78 miles.
536	15	White	24	70	(C) 4	1855		1868	N. 22 W. by W. to S.	Light on stone and brick tower, which is connected with the keeper's dwelling. A coast and harbor light marking entrance to Grand Haven; Manitowishkeag light, N. W., 100 miles; Milwaukee light, W. ½ S., 87 miles; Racine, W. S. W. ½ W., 83 miles; Chicago, S. W. ½ S., 109 miles; Michigan City, S. by W. ½ W., 100 miles; St. Joseph's light, S. by W., 68 miles.
537										
538	11	White	29	34	(C) 5	1870				Wooden tower on the end of south pier. A guide into the harbor of Holland.

## MICHIGAN AND INDIANA—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Fog signal.	Fixed or revolving &c.	Interval of flash.
			N. ° ' "	W. ° ' "						
539	Kalamazoo	On the north side of the mouth of Kalamazoo River, about 40 miles N. by E. 4 E. of St. Joseph's, Michigan.					1		F	m. s.
540	St. Joseph's	On the south side of the mouth of St. Joseph's River, Michigan.					1		F. V. F.	0.30
541	Beacon	On the south pier.					1		F	
542	Michigan City	At the south end of Lake Michigan, Indiana.	41 43 23	86 54 20			1		F	
543	Chicago	On the north pier of Chicago harbor.	41 53 25	87 36 56			1		F	
544	Beacon	On the end of the north pier and a guide to the entrance to the harbor of Chicago.					1		F	

## WISCONSIN AND MICHIGAN.

545	Little Fort or Waukegan.	On south side of Little Fort River, about 15 miles south of Southport light, Illinois.	42 21 29	87 50 00			1		F	
546	Kenosha, (Southport.)	On Warrenton Island, in Southport, and on the north side of the entrance to the pier harbor, Wisconsin.	42 35 00	87 49 30			1		F. V. F.	1.30
547	Beacon	On the north pier.					1		F. red	
548	Racine, (Root River)	On the North Harbor pier, at Racine, Wisconsin.	42 46 00	87 48 00			1		F	
549	Milwaukee	At north point of Milwaukee Bay, Wisconsin.	43 02 24	87 54 08			1		F. V. F.	2.00
550	Beacon	On the North Harbor pier, at Milwaukee.	43 01 37	87 53 50			1	A horn	F. red	
551	Port Washington	At Port Washington, 25 miles south of Sheboygan light, Wisconsin.	43 23 00	87 52 30			1		F	
552	Sheboygan	On a point 2½ miles north of the mouth of Sheboygan River, Wisconsin.	43 44 00	87 41 30			1		F	
553	Manitowoc	Near the inner end of the north pier, at the mouth of Manitowoc River, Wisc'in.	44 06 00	87 36 00			1		F. V. F.	1.30
554	Bayley's Harbor, front light.	On western side of anchorage of Bayley's Harbor, Wisc'in.	45 03 17	87 05 50	1	{ 1,000 feet apart, N. 23 W., S. 28 E. }	1		F	
555	Bayley's Harbor, rear light.								F	
556	Cana Island	On Cana Island, 15 miles S. SW. of the south entrance to Green Bay, Wisconsin, and 4 miles to the northward of entrance to Bayley's Harbor.	45 05 16	87 03 03			1		F	
557	North Bay, front.						1		F	
558	North Bay, rear.						1		F	
559	Port du Mort	On Pilot Island, in the southern entrance to Green Bay, Michigan.	45 16 50	86 55 03			1	A horn operated by a hot-air engine.	Rev'g	1.00

MICHIGAN AND INDIANA—Continued.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base to focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
539	14	White	35	53	(⊙ 5)	1852	1859	1870	N. by W. to S. 11 E.	Light on keeper's wooden dwelling. Guide to harbor of Kalamazoo: Muskegon light, N. $\frac{1}{2}$ W. 40 miles; Sheboygan light, N.W. 106 miles; Milwaukee light, W. N. W. $\frac{1}{2}$ W. 90 miles; Racine, W. $\frac{1}{2}$ N. 82 miles; Chicago, S. W. $\frac{1}{2}$ W. 90 miles; Michigan City light, S. S. W. $\frac{1}{2}$ W. 75 miles.
540	17	White	85	90	(⊙ 4)	1831	1859	.....	N. 22 E. by W. to S. 34 W.	Light on keeper's wooden dwelling. Sheboygan, N.W. by W. $\frac{1}{2}$ W. 123 miles; Milwaukee, N.W. $\frac{1}{2}$ W. 97 miles; Chicago, W. S.W. $\frac{1}{2}$ 63 miles; N. E. $\frac{1}{2}$ N. 35 miles from Michigan City.
541	12	White	29	34	(⊙ 6)	1831	1870	1870	.....	Wooden tower on the end of the south pier. A guide into the river.
542	14	Yellow	34	5	(⊙ 5)	1837	1858	.....	N. 45 E. by N. to W. 11 S.	Light on keeper's dwelling. Grand Pointe au Sable, N. $\frac{1}{2}$ E. 165 miles. This course would pass 3 miles to the westward of Little Point au Sable. Sheboygan, N. by W. $\frac{1}{2}$ W. 146 miles; Waukegon, N.W. $\frac{1}{2}$ W. 65 miles; Chicago, W.N.W. $\frac{1}{2}$ W. 39 miles.
543	16	Black	72	83	(⊙ 3)	1859	.....	.....	N. 11 W. by E. to S. 22 E.	Iron tower; keeper's house white. Grand Pointe au Sable, N.E. by E. $\frac{1}{2}$ E. 160 miles; Pilot Island, N. $\frac{1}{2}$ E. 240 miles; Manitowoc, N. $\frac{1}{2}$ E. 154 miles.
544	12	White	.....	35 $\frac{1}{2}$	(⊙ 6)	1869	.....	.....	.....	Wooden tower marks end of pier and guides into the harbor.

WISCONSIN AND MICHIGAN.

545	15	White	35	75	(⊙ 5)	1849	1860	1860	N. 22 E. by E. to S. 22 E.	Light on keeper's dwelling. Grand Haven, N.E. by E. $\frac{1}{2}$ E. 97 miles; Petite Pointe au Sable, N.E. $\frac{1}{2}$ N. 110 miles; Point Betsey, N. N.E. $\frac{1}{2}$ E. 182 miles.
546	15	Yellow	55	76	(⊙ 4)	1848	1866	.....	N. 11 E. by E. to S. 10 E.	Brick tower connected with keeper's dwelling. St. Joseph's, S.E. by E. $\frac{1}{2}$ E. 76 miles; Grand Haven, E. N.E. 89 miles; South Manitou, N. N.E. $\frac{1}{2}$ E. 193 miles. This course would pass 4 $\frac{1}{2}$ miles to the westward of Point Betsey light.
547	10	White	30	39	(⊙ 6)	1848	1867	1870	.....	Wooden tower on the end of the north pier. A guide into the harbor.
548	13	Yellow	36	48	(⊙ 4)	1866	.....	1870	N. 30 E. by E. to S. 15 E.	Coast and harbor light. 1 $\frac{1}{2}$ miles east of this light is a shoal, extending south 1 mile, least water, 8 feet; Muskegon, N. E. by $\frac{1}{2}$ E., 84 miles; Grand Pointe au Sable, N. E. $\frac{1}{2}$ N., 112 miles.
549	18	Yellow	28	102	(⊙ 4)	1855	.....	.....	N. by E. to S. 11 E.	Coast light. Yellow brick tower and dwelling. A guide to Milwaukee Bay, Muskegon, E. by N., 83 miles; Petite Pointe au Sable, N. E. by $\frac{1}{2}$ E., 83 miles.
550	13	Yellow	36	48	(⊙ 3 $\frac{1}{2}$ )	1866	.....	.....	.....	A guide to the entrance to the harbor, between the piers.
551	18	Yellow	40	113	(⊙ 4)	1849	1860	1870	N. 34 E. by E. to S.	Keeper's dwelling of Milwaukee brick, with lantern on top. Point Betsey, N. E. $\frac{1}{2}$ N., 123 miles; Grand Haven, E. S. E., $\frac{1}{2}$ E., 97 miles.
552	16	White	34	80	(⊙ 5)	1839	1860	.....	N. 34 E. by E. to S.	Light on keeper's frame dwelling. East of the light and the piers there is a reef, on N. and S. ends of which buoys are placed. The South Manitou, N. E. $\frac{1}{2}$ N., 123 miles; Twin River Point, N. $\frac{1}{2}$ E., 33 miles.
553	14	White	34	63	(⊙ 5)	1839	.....	1859	E. 40 N. by E. to S. 11 W.	Muskegon, S.E., $\frac{1}{2}$ E., 89 miles; Manistee, E. $\frac{1}{2}$ N., 67 miles.
554	8	White	.....	.....	(⊙ 6)	1869	.....	1870	S. 19 E. to S. 37 E.	Rear light on keeper's frame dwelling, front light in wooden tower, at 4 miles distance from the entrance to the channel leading to the anchorage; bring the lights in range bearing N. N. W. $\frac{1}{2}$ W., and stand into the bay for anchorage. Sleeping Bear Point, E. by S., 51 miles. The old white tower of the former light on the point, on the starboard side of the entrance, is still standing, and serves as good day-mark for approaching the harbor.
555	12	White	24	39	(⊙ 5)	1869	.....	1870	.....	
556	16	Yellow	80	88	(⊙ 3)	1869	.....	.....	N. 16 E. by E. to S. 25 W.	Tower and dwelling, of Milwaukee brick, connected. Light on South Fox Island bears E. by N. $\frac{1}{2}$ N., 62 miles; South Point of South Manitou Island, E. $\frac{1}{2}$ S., 45 miles; Point Betsey, S. E. by E., 48 miles, and the Bayley's Harbor entrance 4 miles to the southward.
557	.....	.....	.....	.....	(⊙ 6)	.....	.....	.....	.....	Building.
558	.....	.....	.....	.....	(⊙ 6)	.....	.....	.....	.....	
559	12	Yellow	34	38	(⊙ 4)	1849	1858	.....	E. 23 N. by E. to S.	

WISCONSIN AND MICHIGAN—Continued.

Number.	Name.	Location.	Latitude.		Longitude.		Number of lights and relative positions.	Fog signal.	Fixed or revolving, &c.	Interval of flash.
			° N. "	' "	° W. "	' "				
560	Pottawatomie	On the north point of Rock Island, north side of the entrance to Green Bay, Michigan.	45	25 40	86	49 36	1		F	
561	Point Peninsula	On the point between Little and Big Bays de Noquet.	45	40 05	86	57 44	1		Rev'g	0.30
562	Escanaba	At the extreme end of Sand Point in Little Bay de Noquet.	45	44 23	87	02 26	1		F	
563	Eagle Bluff	Two miles north of Fish Creek, in Green Bay.	45	10 00	87	14 09	1		F	
564	Chambers's Island	On the northwest end of Chambers's Island, in Green Bay.	45	12 41	87	20 00	1		F. V. F.	1.00
565	Green Island	On the S. E. point of Green Island, off Menominee River, Green Bay.	45	03 15	87	30 00	1		F	
566	Tall Point	Near the mouth of Fox River, at the head of Green Bay, Wisconsin.	44	35 49	87	59 48	1		F	
567	Round Island	In White Fish Bay, near entrance to river Ste. Marie.	46	26 36	84	31 34	1		F	
568	Point Iroquois	On south shore of White Fish Bay, Lake Superior.	46	29 05	84	37 51	1		Rev	
569	White Fish Point	On White Fish Point, Michigan.	46	46 18	84	57 21	1	A horn	F	
570	Grand Island	North point of Grand Island, on a high bluff.	46	33 40	86	40 50	1		F. V. F.	1.30
571	Grand Island Harbor	On the low sand point projecting from Grand Island into the east entrance to Grand Island Harbor.					1		F	
572	Grand Island Harbor range, (front light.)	On the main land at west entrance to Grand Island Harbor.					1	} 500 ft. apart. {	F	
573	Grand Island Harbor range, (rear light.)	On the main land at west entrance to Grand Island Harbor.					1		F	

WISCONSIN AND MICHIGAN—Continued.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base to focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
560	19'	Gray	34	137	(C) 4	1839	1858	1858	S. 22 W. by N. to E. 11 S.	Light on keeper's dwelling. A guide to Green Bay through the passage between Rock and St. Martin's Islands. A 10-foot shoal in the channel bears N. E. by E. $\frac{1}{2}$ E., $3\frac{1}{2}$ miles from the light. From the S. E. point of Rock Island there are two dangerous reefs, with only 4 feet water, bearing S. E. by E. $\frac{1}{2}$ E., $2\frac{1}{2}$ miles, and S. S. E., $3\frac{1}{2}$ miles. Vessels from Lake Michigan for Green Bay can bring the light to bear, in 15 fathoms water, from W. by N. to W. by S., and stand for it, hauling $\frac{1}{2}$ a mile to the northward as they approach the light; with the light a beam, when standing to the westward. Boyer's Bluff, the N. W. point of Washington Island, one of the most prominent headlands in Green Bay, will bear W. by S., $5\frac{1}{2}$ miles.
561	12	Yellow	36	41	(C) 4	1865		1870	E. 22 N. by S. to N. 22 W.	Tower and dwelling of Milwaukee brick. Marks approach to Little and Big Bays de Noquet. A dangerous shoal extends south from the light $1\frac{1}{2}$ mile, on which there is a red spar buoy. There is also a 11-foot spot, S. by W. $\frac{1}{2}$ W., $2\frac{1}{2}$ miles from the light, on which there is a third-class iron can buoy, painted with red and black horizontal stripes. Sand Point light-house bears N. W. by W., 64 miles; Chambers's Island light-house, S. S. W. $\frac{1}{2}$ W., $37\frac{1}{2}$ miles; Boyer's Bluff, S. $\frac{1}{2}$ E., 17 miles; south point of Poverty Island, S. E. $\frac{1}{2}$ E. 17 miles.
562	13	Yellow	39	44	(C) 4	1867			N. 11 W. by E. to S. 11 W.	A guide into the harbor of Escanaba and Little Bay de Noquet. To the eastward of the light is a sand flat, extending a half mile, on which is a black buoy. Boyer's bluff, S. by E. $\frac{1}{2}$ E., 23 miles; Whale's Back Shoal, S. S. W. $\frac{1}{2}$ W., 23 miles.
563	15	Yellow	38	76	(C) $3\frac{1}{2}$	1868			E. 45 N. by N. to N. 22 W., also S. 22 W. to W. 25 S.	A guide through the Strawberry Passage, between the islands and the main shore. Strangers should not attempt to pass between the Strawberries and Chambers's 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.
564	15	Yellow	38	68	(C) 4	1868			E. 22 N. by N. to W. 34 S.	A guide through the western passage (54 miles wide) between the island and the main. A reef extends off the north point of the island $1\frac{1}{2}$ miles. Strangers should not pass to the eastward of this island, or between it and the Strawberries. Horseshoe Reef, E. $\frac{1}{2}$ N. $7\frac{1}{2}$ miles; Whale Back Shoal, N. E. $\frac{1}{2}$ N. 14 miles; Point Rochereau, N. N. W. $\frac{1}{2}$ W., 7 miles; Menominee, S. W. by W., 13 miles.
565	15	White	40	55	(C) 4	1863			Entire horizon, except W. to N. W.	Light on keeper's dwelling, of brick. Reefs extend off from the S. E. and N. W. points of this island a $\frac{1}{2}$ and 1 mile, respectively. The best channel (6 miles wide) is to the eastward of this island. The N. W. end of Chambers's Island bears N. E. by N. $\frac{1}{2}$ N. 11 miles. The S. E. point of Peshtigo Shoal, S. W. by S. 8 miles; Sturgeon Bay, S. by E. $\frac{1}{2}$ E. 11 miles.
566	14	White	50	56	(C) 4	1848	1859		N. 22 E. to E. 22 E.	Light on keeper's dwelling, of wood. A guide to the entrance of Fox River, Green Bay City. The S. E. extreme of Peshtigo Reef, N. E. $\frac{1}{2}$ N. 32 miles; Hat Island, N. E. 48 miles.
567	13	White	35	50	(C) 5	1855		1870	E. 34 N. by N. to W. 22 S.	Light on square stone tower, rising from the keeper's dwelling. A guide to and from the entrance to Lake Superior.
568	15	Red	55	72	(C) 4	1857	1870	1870	S. 45 E. by N. to W. 22 N.	The light is on a red brick tower, connected with the keeper's dwelling. A guide to and from the Straits of St. Marie. Parisien Island, N. by W. $\frac{1}{2}$ W. 12 miles; White Fish Point, N. W. $\frac{1}{2}$ N. 25 miles.
569	15	White	70	76	(C) $3\frac{1}{2}$	1847	1861	1863	S. 11 W. by E. and N. to W.	Iron-pile structure. Keeper's house of wood, and painted white. A guide to and from White Fish Bay, at the S. E. extreme of Lake Superior. The southwest point of the shoal off Caribou Island bears N. W. $\frac{1}{2}$ W. 55 miles; Manitou Island, W. N. W. $\frac{1}{2}$ W. 131 miles; Montreal Island, (Canada,) N. by E. $\frac{1}{2}$ E. 37 $\frac{1}{2}$ miles.
570	23	Yellow	33	205	(C) 4	1856	1867		E. by N. to W. 22 S.	Stannard's Rock Beacon, N. W. by N. $\frac{1}{2}$ N. 49 $\frac{1}{2}$ miles; Manitou Island light, N. W. $\frac{1}{2}$ N. 73 miles. This course would pass $3\frac{1}{2}$ miles to the southward and westward of Stannard's Rock Beacon. Granite Island light, W. N. W. $\frac{1}{2}$ W. 36 miles; Marquette light, W. $\frac{1}{2}$ S. 33 miles; the S. W. point of Michipicoten, N. N. E. $\frac{1}{2}$ E. 85 miles; Pointe au Sable, E. N. E. $\frac{1}{2}$ E. 27 miles.
571	12	White	30	34	(C) 5	1868		1869	N. E. to E. N. E.	To guide through the eastern passage to the anchorage at Grand Island Harbor.
572	10	White	19	23	(C) 6	1868		1870	N. to N. 22 W.	Front light in wooden tower. Rear light on keeper's frame dwelling. These lights are a guide for entering the west channel to the anchorage of Grand Island Harbor. With the north point of Wood Island, bearing W. $\frac{1}{2}$ of a mile, and the lights in range, steer S. by E. $\frac{1}{2}$ E. 5 miles, toward the range lights. At this point a vessel should be about $\frac{1}{2}$ of a mile north of the lights, and should have opened the two extreme south points of the island; then haul to the eastward for the respective anchorages, keeping Powell's Point close aboard.
573	11	White	22	31	(C) 6	1868		1870		

WISCONSIN AND MICHIGAN—Continued.

Number.	Name.	Location.	Latitude.		Longitude.	Number of lights and relative positions.	Fog signal.	Fixed or revolving, &c.	Interval of flash.
			N. ° ' "	W. ° ' "					
574	Marquette	On the north point of Marquette Harbor.	46 32 55	87 23 12	1			F	m. s.
575	Granite Island	On Granite Island, 12 miles northwest of Marquette.	46 43 22	87 24 25	1			F. white, var'd by red fl'shs.	1.30
576	Huron Island	On West Huron Island, off Huron Bay.	46 57 47	87 59 35	1			F	
577	Portage River	Near mouth of Portage River, western shore of Keweenaw Bay.	46 58 41	88 24 33	1			F. white, var'd by red fl'shs.	2.00
578	Portage Range, (front light.)	On prolongation of center line of cut from Keweenaw Bay.			1	} 500 ft. apart. {		F	
579	Portage Range, (rear light.)		1		F				
580	Manitou	On the east point of Manitou Island.	47 25 12	87 35 38	1			F. V. F.	1.30
581	Gull Rock	On a rocky islet between Keweenaw Point and Manitou Island.	47 25 02	87 40 11	1			F	
582	Copper Harbor	On the eastern point of the entrance to Copper Harbor, Michigan.	47 28 34	87 52 00	1		A horn.	F	
583	Copper Harbor Range, front light.	On Fort Wilkins reserve	47 28 10	87 52 26	1	} 500 feet apart. {		F	
584	Copper Harbor Range, rear light.	Ditto	47 28 05	87 52 26	1			F	
585	Eagle Harbor	On the west point of the entrance to Eagle Harbor, Michigan.	47 28 50	88 04 04	1			F. V. F.	2.00
586	Eagle River	Near the entrance to Eagle River, south shore of Lake Superior.	47 25 03	88 18 07	1			F	
587	Ontonagon	At mouth of Ontonagon River, Michigan, on west side of entrance.	46 52 15	89 31 00	1			F	
588	Michigan Island	On the southwest point of Michigan Island, the most southern and eastern of the Apostle Group, Wisconsin.			1			F	
589	La Point	On Chagamegan Point, the southeastern entrance to La Pointe Harbor, and to the southward of Bayfield.			1			F	
590	Raspberry Island	On the southwest point of Raspberry Island, one of the Apostle Group.			1			F. V. F.	1.30
591	Minnesota Point	At the head of Lake Superior, mouth of St. Louis River, $\frac{1}{4}$ of a mile N. W. of the piers.	46 46 00	92 14 00	1			F	

WISCONSIN AND MICHIGAN—Continued.

Number.	Distance visible in statute miles.	Color of tower or vessel.	Height of tower from base to focal plane.	Height of light above sea level.	Order of lens.	When built.	When rebuilt.	When refitted.	Compass range of visibility.	Remarks.
574	16	Yellow	33	77	(⊙ 4)	1853	1866	1870	270°	House and tower connected, built of Milwaukee brick. Stannard's Rock Beacon, N. $\frac{1}{2}$ E. 43 $\frac{1}{2}$ miles; Grand Island light, E. $\frac{1}{2}$ N. 33 miles.
575	17	Granite	34	93	(⊙ 4)	1868			Entire horizon	Keweenaw Point, N. by W. $\frac{1}{2}$ W. 48 miles; Traverse Point, N. W. $\frac{1}{4}$ W. 48 miles; Stannard's Rock, N. by E. $\frac{1}{2}$ E. 32 miles.
576	22	Granite	34	197	(⊙ 3 $\frac{1}{2}$ )	1868			Entire horizon	Stannard's Rock, N. N. E. 39 miles; Manitou Island light, N. N. E. $\frac{1}{2}$ E. 37 miles; Traverse Island, N. W. by W. 14 $\frac{1}{2}$ miles.
577	15	White	45	68	(⊙ 5)	1856			N. 45 E. by E. to S. 11 W.	Manitou Island light, N. E. $\frac{1}{2}$ E. 49 $\frac{1}{2}$ miles; Stannard's Rock, E. N. E. $\frac{1}{4}$ E. 58 miles.
578	10	White	19	21	(⊙ 6)	1868				To guide into Portage River from the western shore of Keweenaw Bay. Front light on wooden tower. Rear light on keeper's frame dwelling.
579	11	White	23	25	(⊙ 6)	1868				
580	16	White	70	81	(⊙ 3)	1849	1861	1867	Entire horizon, except from W. 11 N. to W. 11 S.	Iron-pile structure, connected with keeper's house, of wood, painted white. Stannard's Rock, S. E., 23 $\frac{1}{2}$ miles; S. W. point of Michipicoten, E. N. E. $\frac{1}{2}$ E., 75 miles; the south point of the Slate Islands, N. by E. $\frac{1}{4}$ E., 85 miles; the Bateau Rocks, N. by W. $\frac{1}{2}$ W., 61 miles; the East Point of Isle Royal, N. W. $\frac{1}{2}$ N., 66 miles.
581	13	Yellow	39	50	(⊙ 4)	1867			Entire horizon, except from E. 22 by N. to E. 16 S.	Tower and keeper's dwelling connected, built of Milwaukee brick. A guide through the passage between Gull Rock (which lies near the western end of Manitou Island) and Keweenaw Point.
582	15	Yellow	36	65	(⊙ 4)	1848	1866		E. 5 N. by W. to W. 5 N.	Tower and keeper's dwelling connected, built of Milwaukee brick. S. W. point of Isle Royal, W. N. W., 68 miles; Otter Head, (Canada,) N. E. by E. $\frac{1}{2}$ E., 92 miles; Passage Island, N. N. W. $\frac{1}{2}$ W., 53 miles.
583	10	White	16	22	(⊙ 6)	1865				To guide vessels into Copper Harbor. The front light is in a wooden tower, rear light on keeper's frame dwelling.
584	12	White	26	39	(⊙ 6)	1865				
585	13	White	31	47	(⊙ 5)	1850		1857	E. 11 N. by N. to W.	Light on keeper's dwelling. The entrance to Les Petites Ecris Bay, (Canada,) N. N. E. $\frac{1}{2}$ E., 97 miles; the north point of the outer or easternmost of the Apostle Group, W. by S. $\frac{1}{2}$ S., 105 miles.
586	14	Yellow	24	61	(⊙ 5)	1858			E. 45 N. by N. to W. 11 S.	Light on keeper's dwelling. A guide to the pier. Siskowit Island, N. N. W. $\frac{1}{2}$ W., 44 miles; Michigan Island light, W. S. W. $\frac{1}{2}$ W., 100 miles.
587	13	Yellow	39	47	(⊙ 5)	1852	1866		E. 45 N. by N. to W. 11 S.	House and tower of Milwaukee brick. The S. W. point of Isle Royal, N. $\frac{1}{2}$ E., 67 miles; Grand Portage Bay, (Canada,) N. by W., 75 miles.
588	19	White	64	129	(⊙ 3 $\frac{1}{2}$ )	1857		1869	E. 22 N. by S. to W. 22 N.	A guide through the passage between Madeline, Stockton, and Michigan Islands, to Bayfield and La Pointe. Ontonagon, E., 56 miles.
589	13	White	34	42	(⊙ 4)	1858			E. 25 N. to E. 35 S.	Light on keeper's dwelling, of wood, painted white. Black River, E. $\frac{1}{2}$ S., 32 miles; Eagle River, E. N. E. $\frac{1}{2}$ E., 118 miles.
590	16	White	37	77	(⊙ 5)	1862			E. 22 N. by S. & by W. to N.	Light on keeper's frame dwelling, painted white. A guide between the Main and Raspberry Island and to Bayfield and La Pointe. Baptism River, N. W. $\frac{1}{2}$ W., 30 miles.
591	14	Red	45	50	(⊙ 5)	1857			E. 22 S. by N. to N. 22 W.	A guide into Superior Bay. The S. W. point of Isle Royal, N. E. by E. $\frac{1}{2}$ E., 150 miles; Point Porphyry, (Canada,) N. E. $\frac{1}{4}$ E., 192 miles.