

Thunder Bay Sanctuary Advisory Council Working Group's Boundary Evaluation Document Recommending Expansion of Thunder Bay National Marine Sanctuary to Include Alpena, Alcona, and Presque Isle counties, East to the International Border with Canada.

A resolution was passed by the advisory council on May 22, 2007 recommending expansion of the sanctuary to the working group's recommended area.

Background

In 1997, the National Oceanic and Atmospheric Administration (NOAA) proposed to the State of Michigan, the Thunder Bay National Marine Sanctuary (NMS) to include an approximately 808-square-mile area extending from Presque Isle Lighthouse in Presque Isle County south to Sturgeon Point Lighthouse in Alcona County, east to West 83 degrees longitude. This area was proposed based on the national significance of the area's collection of maritime heritage resources, primarily shipwrecks. Well preserved by Lake Huron's cold, fresh water, the Thunder Bay region contains scores of shipwrecks that span a century and a half of Great Lakes maritime history. From early wooden sailing vessels to modern steel-hulled freighters, these archaeological sites reflect transitions in ship architecture and construction methods. These unique historic sites serve as a dramatic link to the region's broader maritime landscape, helping to illuminate the critical role of the Great Lakes and Great Lakes people in American history. The large array of shipwrecks in the Thunder Bay region includes virtually all types of vessels used on the Great Lakes. Thunder Bay's collection of shipwrecks represents a broad history of Great Lakes culture and commerce and is considered historically nationally significant.

In response to concerns expressed during designation, NOAA agreed to reduce the size of the proposed sanctuary to approximately 448 square miles. The revised boundary extended to the West 83 degrees longitude as the lakeward boundary, but used the Alpena County lines as the north and south boundaries. Based on the historical, archaeological, recreational, and interpretive value of the area's nationally significant collection of maritime heritage resources, this area was designated the Thunder Bay NMS and Underwater Preserve on October 7, 2000, and is jointly managed by the State of Michigan and NOAA. NOAA agreed to adopt the 448-square-mile boundary with the stipulation that, after five years, an inventory of shipwrecks would be evaluated to determine if boundary expansion is warranted.

NOAA re-proposed the sanctuary to the Governor in 2005, and that same year, the sanctuary became permanent. During the process, there was an opportunity for the public to comment on how the sanctuary was being managed. Public comments were also sought during the 2006 scoping process for management plan review. As a result, NOAA received a number of comments expressing interest in boundary expansion to include Alcona and Presque Isle Counties. Several local government and non-governmental organizations including the City of Alpena, Alpena County, Alpena Township, Sanborn Township, Presque Isle Township, Rogers City, Alcona County, Michigan Sunrise Side Travel Association, and the Sunrise Side Coastal Highway Management Council passed resolutions or submitted written letters of support for expansion. Based on public interest, boundary expansion was identified as a priority issue for management plan review. A boundary expansion working group was developed to determine whether the boundaries should be expanded to protect, manage, and

interpret additional shipwrecks and other potential maritime heritage resources, and to make a recommendation to the sanctuary advisory council. This group met before other management plan review working groups so that those groups could consider a larger boundary when making recommendations.

Benefits of Inclusion in the Sanctuary

Expanding the sanctuary boundary to include more shipwrecks will provide additional protection to those wrecks than that already provided by Michigan State law. Designation as a national marine sanctuary may also provide increased resources for research and long-term monitoring, education, and enforcement necessary to fully know, understand, and protect the resources. Designation as a sanctuary draws attention to the fact that the resources have national significance and this status may provide additional opportunities for tourism and economic growth.

The Study Area

The boundary expansion working group identified and considered the following study area for evaluation of boundary alternatives: a 3,662-square-mile area extending from Alcona County to Presque Isle County, east to the international border with Canada. The study area was identified based on the density of known and undiscovered resources, the historical, archaeological, and recreational significance of individual and collective resources, and the maritime landscape.

Boundary Evaluation and Recommendation

The boundary expansion working group evaluated three alternatives in the study area:

- A) No expansion (448 square miles)
- B) Presque Isle Lighthouse in Presque Isle County south to Sturgeon Point Lighthouse in Alcona County, east to West 83 degrees longitude (808 square miles)
- C) The entire study area (3,662 square miles)

The group considered a larger alternative – all waters off Alpena, Alcona, and Presque Isle Counties plus Spectacle Reef – but excluded it because interest expressed by the public and local governments was limited to expansion to Presque Isle, Alpena, and Alcona Counties. The group also discussed expanding to Presque Isle and Alcona Counties east to the West 83 degrees longitude, but excluded it due to the potential for well preserved, undiscovered wrecks in deeper waters to the east.

Appendix A displays tables of known shipwrecks (shipwrecks with available coordinates) and undiscovered shipwrecks (shipwrecks that may be located in this area of Lake Huron) in the boundary alternatives. A summary of the results of the tables is shown below.

	Alternative A	Alternative B	Alternative C
Known Shipwrecks	48	63	78
Undiscovered Shipwrecks	40*	64*	100*

*Approximate locations of undiscovered shipwrecks are based upon historic records. The list of undiscovered shipwrecks is not comprehensive because not all historic sources indicated the specific locations where ships were lost.

Alternative A:

The working group evaluated the distribution of shipwrecks outside the sanctuary and concluded that there were enough known and potential shipwrecks outside the sanctuary to justify expanding the sanctuary boundary.

Alternative B:

The 808-square-mile area was evaluated because it was NOAA's preferred boundary during the sanctuary's designation process. The area contains 63 known shipwrecks, and relative to the entire study area (Alternative C), excludes 15 known wrecks including: *American Union*, *D.N. Barney*, *F.T. Barney*, *H.P. Bridge*, *Cuyahoga*, *Detroit*, *Duncan City*, *Joseph S. Fay*, *W.C. Franz*, *John Jewett*, *Henry J. Johnson*, *W.G. Mason*, *Messenger*, *Monrovia*, *New York*, and *Northwestern*. Approximately 64 undiscovered shipwrecks may be located in Alternative B, but limiting the sanctuary to the 808-square-mile area reduces the likelihood of inclusion of undiscovered shipwrecks. The working group rejected this alternative in favor of Alternative C because this alternative limited inclusion of known and undiscovered shipwrecks in the sanctuary.

Alternative C:

Based on the density of known and undiscovered resources, the historical, archaeological, and recreational significance of individual and collective resources, the maritime landscape, and the ease of identifying the sanctuary as a three-county area, the working group recommended Alternative C.

Shipwreck Density and Significance

Alternative C contains 78 known and approximately 100 undiscovered shipwrecks. Among them are a number of historically, archaeologically, and recreationally significant shipwrecks not currently included in the sanctuary. Some are mentioned below:

A cluster of shipwrecks, including the *Cornelia B. Windiate*, *Defiance*, *John J. Audubon*, *Florida*, *Norman*, and *Typo* are located just north of the current sanctuary boundary in Presque Isle County. The *Cornelia B. Windiate*, one of the Great Lakes' most intact

shipwrecks, rests in 190 feet of water. This three-mast wooden schooner sank with all hands in December 1875 when bound from Milwaukee to Buffalo with a cargo of wheat. The *Defiance*, a two-mast schooner, is another extremely well-preserved example of mid-nineteenth century schooner construction. It collided with another schooner, the *Audubon*, in 1854. The *Florida*, a package freighter located in over 200 feet of water, contains a large amount of cargo, including wheat, flour, syrup, and whiskey, most of which remains on the wreck site. The *Norman*, a 296 foot steel bulk freighter, and the *Typo*, a fairly intact three-mast schooner, are also located in that area.

The three-mast wooden barkentine *H.P. Bridge* and the steel bulk freighters *W.C. Franz* and *W.H. Gilbert* lie in Alcona's deeper waters. Artifacts on the virtually intact *H.P. Bridge* include pottery, clothing, and ship tackle and hardware. Deep water wrecks are popular for technical divers who venture beyond the recreational dive limit of 130 feet. These sites are often well preserved, containing many artifacts and providing a wealth of information about the past that is not captured in the historical record.

Access to shipwrecks is not limited to trained scuba divers. Non-divers can snorkel shallow water wrecks, or view them by boat or kayak. These sites offer a tremendous amount of archaeological data on ship architecture and are generally easier to document due to their depth. In Presque Isle, the *Albany*, a paddle-wheel steamboat that sank in 1853, is located in shallow waters just south of the Presque Isle Harbor and the *American Union*, a schooner that sank in 1894, is located near shore at Thompson Harbor. A large section of the starboard side of the wooden bulk freighter *Joseph S. Fay* is located on the beach near 40 Mile Point Lighthouse in Presque Isle County. The rest of the largely intact wreck is located in very shallow water immediately off shore. Other shallow wrecks in the area include the *Duncan City* and *W.G. Mason* in Rogers City, and the *Czar* at Besser Bell.

Many of the known shipwrecks in Alcona County are found in shallow water. Included in this group are the *Marine City* and *City of Alpena*. Twenty lives were lost when the wooden side-wheel steamboat *Marine City* burned off Alcona in 1880. The same year, the wooden harbor tug *City of Alpena* burned off Black River. The tug operated out of Alpena for five years before it burned. Other shallow water wrecks located off Alcona County include the *Mackinaw*, *Buckingham*, *Venus*, and *Detroit*.

The waters off Alpena, Alcona, and Presque Isle Counties contain approximately 100 additional, undiscovered shipwrecks (historic wrecks believed to be lost in this area of Lake Huron). The *Clifton* and *Choctaw* are likely located in Presque Isle County. Both were built in 1892 and represent crafts unique to the Great Lakes. The *Clifton*, a whaleback, was a steel-hulled bulk carrier with a rounded deck and long, snout-like bow resembling the hull of early submarines. Only 41 were constructed. The *Choctaw*, a straight-back, was similar to the *Clifton*, but has more vertical sides and a fuller bow. Locating one or both of these vessels would provide significant historical information of an understudied class of vessels. Likely located in Alcona County are the wooden propellers *R.G. Coburn* and *Egyptian*. The *R.G. Coburn* reportedly carried wheat, flour, and valuable silver ore. The *Egyptian* is significant because it was equipped with the first

fore-and-aft compound engine used on the Great Lakes. Expansion of the sanctuary to the entire three county area increases the probability that these undiscovered wrecks will be included in the sanctuary.

The waters east of W83 degrees longitude are some of the deepest areas of Lake Huron. Very little exploration or systematic archaeological survey has occurred in this area due to the depth and remoteness. While current recreational use of these shipwrecks is limited, technical diving technology is becoming more common, resulting in more divers visiting deeper sites. Shipwrecks at these depths are generally better preserved than those in more dynamic, shallow water. Further, deep water shipwrecks have significantly greater numbers of artifacts associated with them. Consequently, the protection of deep water shipwrecks represents the next frontier in maritime heritage preservation. The sanctuary and its partners have the capabilities to survey and document shipwrecks in this area and have before them an unprecedented opportunity to be ahead of the preservation curve. The working group believed that the potential for well preserved wrecks in this area deemed sanctuary protection necessary.

Maritime Landscape

The maritime landscape of Northeast Michigan includes not only the shipwrecks located on Lake Huron bottomlands, but also the channels, docks, piers, and all cultural and natural features related to maritime heritage. Understanding the context of shipwrecks within the broader network of the maritime landscape paints a greater and more complete picture of our collective maritime past. The lighthouses (Presque Isle Lighthouses, 40 Mile Point Lighthouse, and Sturgeon Point Lighthouse) and lifesaving stations (Sturgeon Point and Hammond Bay) of Presque Isle and Alcona Counties offer contexts in which to interpret the area's shipwrecks. Expanding to waters off Presque Isle and Alcona Counties will facilitate relationships with the maritime communities of Rogers City and Harrisville, cities with strong connections to the Great Lakes. The importance of preserving Great Lakes culture is seen throughout these communities in cultural institutions such as the Great Lakes Lore Maritime Museum, the 40 Mile Point Lighthouse Museum, and the maritime museum at Sturgeon Point Lighthouse.

Recommendation

The working group felt it was important and practical for the sanctuary to expand to include Alcona, Alpena, and Presque Isle Counties to the international border to provide protection for those maritime heritage resources currently known and those yet to be discovered. The working group also felt that by expanding sanctuary boundaries to the study area, important national treasures would be protected through the sanctuary's research and monitoring, education, and resource protection (including law enforcement) programs, while allowing recreational use of the resources. On May 22nd, 2007, the boundary expansion working group presented this recommendation to the SAC and the SAC passed a resolution to expand the boundary to the recommended area.

Appendix A: Shipwreck Distribution

Table 1

The following are known shipwrecks (wreck sites with available coordinates) located in each boundary alternative:

Alternative A:

<u>Vessel Name</u>	<u>Vessel Type</u>	<u>Year Lost</u>	<u>Depth</u>	<u>County</u>
<i>E.B. Allen</i>	Schooner	1871	100	Alpena
<i>Barge No. 1</i>	Barge	1918	42	Alpena
<i>Barge No. 12</i>	Barge	1975	35	Alpena
<i>Barge No. 83</i>	Barge	1941	70	Alpena
<i>Harvey Bissell</i>	Schooner	1905	15	Alpena
<i>B.W. Blanchard</i>	Steam Barge	1904	9	Alpena
<i>Carbide Barge</i>	Barge	unknown	92	Alpena
<i>Congress</i>	Propeller	1868	17	Alpena
<i>Corsican</i>	Schooner	1893	160	Alpena
<i>James Davidson</i>	Bulk Freightier	1883	38	Alpena
<i>Dump Scow</i>	Barge	unknown	140	Alpena
<i>Empire State</i>	Schooner	1877	12	Alpena
<i>Oscar T. Flint</i>	Steam Barge	1909	32	Alpena
<i>Benjamin Franklin</i>	Paddle Wheeler	1850	15	Alpena
<i>Galena</i>	Steam Barge	1872	16	Alpena
<i>Golden Voyage</i>	Cabin Cruiser	1994	0	Alpena
<i>Grecian</i>	Bulk Freightier	1906	98	Alpena
<i>James H. Hall</i>	Schooner	1916	6	Alpena
<i>D.R. Hanna</i>	Bulk Freightier	1919	130	Alpena
<i>John T. Johnson</i>	Schooner	1904	7	Alpena
<i>Knight Templar</i>	Schooner	1903	5	Alpena
<i>Light Guard</i>	Schooner	1903	6	Alpena
<i>Maid of the Mist</i>	Schooner	1878	7	Alpena
<i>William Maxwell</i>	Tug	1908	12	Alpena
<i>Monohansett</i>	Steam Barge	1907	18	Alpena
<i>Montana</i>	Steam Barge	1914	66	Alpena
<i>New Orleans</i>	Paddle Wheeler	1849	13	Alpena
<i>New Orleans</i>	Bulk Freightier	1906	145	Alpena
<i>Nordmeer</i>	Ocean Vessel	1966	35	Alpena
<i>North Point Barge</i>	Barge	unknown	1	Alpena
<i>Ogarita</i>	Schooner	1905	30	Alpena
<i>E.B. Palmer</i>	Schooner	1892	16	Alpena
<i>O.E. Parks</i>	Steam Barge	1929	62	Alpena

<i>Pewabic</i>	Propeller	1865	170	Alpena
<i>Portsmouth</i>	Propeller	1867	8	Alpena
<i>William P. Rend</i>	Steam Barge	1917	17	Alpena
<i>Scanlon's Barge</i>	Barge	unknown	17	Alpena
<i>Isaac M. Scott</i>	Bulk Freightier	1913	175	Alpena
<i>Shamrock</i>	Steam Barge	1905	11	Alpena
<i>Kyle Spangler</i>	Brig	1860	145	Alpena
<i>William H. Stevens</i>	Schooner	1863	10	Alpena
<i>William P. Thew</i>	Steam Barge	1909	84	Alpena
<i>Lucinda Van Valkenburg</i>	Schooner	1887	60	Alpena
<i>Viator</i>	Ocean Vessel	1935	188	Alpena
<i>Vienna</i>	Schooner	1906	70	Alpena
<i>John F. Warner</i>	Schooner	1890	9	Alpena
<i>D.M. Wilson</i>	Bulk Freightier	1894	48	Alpena
<i>William A. Young</i>	Schooner	1911	40	Alpena

Alternative B:

<u>Vessel Name</u>	<u>Vessel Type</u>	<u>Year Lost</u>	<u>Depth</u>	<u>County</u>
<i>Albany</i>	Paddle Wheeler	1853	5	Presque Isle
<i>E.B. Allen</i>	Schooner	1871	100	Alpena
<i>John J. Audubon</i>	Schooner	1854	170	Presque Isle
<i>Barge No. 1</i>	Barge	1918	42	Alpena
<i>Barge No. 12</i>	Barge	1975	35	Alpena
<i>Barge No. 83</i>	Barge	1941	70	Alpena
<i>Harvey Bissell</i>	Schooner	1905	15	Alpena
<i>B.W. Blanchard</i>	Steam Barge	1904	9	Alpena
<i>Alvin Buckingham</i>	Schooner	1870	8	Alcona
<i>Carbide Barge</i>	Barge	unknown	92	Alpena
<i>City of Alpena</i>	Tug	1880	9	Alcona
<i>Congress</i>	Propeller	1868	17	Alpena
<i>Corsican</i>	Schooner	1893	160	Alpena
<i>Czar</i>	Schooner	1875	7	Presque Isle
<i>James Davidson</i>	Bulk Freightier	1883	38	Alpena
<i>Defiance</i>	Schooner	1854	185	Presque Isle
<i>Dump Scow</i>	Barge	unknown	140	Alpena
<i>Empire State</i>	Schooner	1877	12	Alpena
<i>Millard Fillmore</i>	Schooner	1891	185	Alcona
<i>Oscar T. Flint</i>	Steam Barge	1909	32	Alpena
<i>Florida</i>	Package Freightier	1897	206	Presque Isle
<i>Benjamin Franklin</i>	Paddle Wheeler	1850	15	Alpena
<i>Galena</i>	Steam Barge	1872	16	Alpena
<i>W.H. Gilbert</i>	Bulk Freightier	1914	255	Alcona
<i>Golden Voyage</i>	Cabin Cruiser	1994	0	Alpena
<i>Grecian</i>	Bulk Freightier	1906	98	Alpena
<i>James H. Hall</i>	Schooner	1916	6	Alpena

<i>D.R. Hanna</i>	Bulk Freighter	1919	130	Alpena
<i>John T. Johnson</i>	Schooner	1904	7	Alpena
<i>Knight Templar</i>	Schooner	1903	5	Alpena
<i>Light Guard</i>	Schooner	1903	6	Alpena
<i>Mackinaw</i>	Steam Barge	1890	7	Alcona
<i>Maid of the Mist</i>	Schooner	1878	7	Alpena
<i>Marine City</i>	Paddle Wheeler	1880	5	Alcona
<i>William Maxwell</i>	Tug	1908	12	Alpena
<i>Monohansett</i>	Steam Barge	1907	18	Alpena
<i>Montana</i>	Steam Barge	1914	66	Alpena
<i>New Orleans</i>	Paddle Wheeler	1849	13	Alpena
<i>New Orleans</i>	Bulk Freighter	1906	145	Alpena
<i>Nordmeer</i>	Ocean Vessel	1966	35	Alpena
<i>Norman</i>	Bulk Freighter	1895	180	Presque Isle
North Point Barge	Barge	unknown	1	Alpena
<i>Ogarita</i>	Schooner	1905	30	Alpena
<i>E.B. Palmer</i>	Schooner	1892	16	Alpena
<i>O.E. Parks</i>	Steam Barge	1929	62	Alpena
<i>Pewabic</i>	Propeller	1865	170	Alpena
<i>Portsmouth</i>	Propeller	1867	8	Alpena
<i>William P. Rend</i>	Steam Barge	1917	17	Alpena
Scanlon's Barge	Barge	unknown	17	Alpena
<i>Isaac M. Scott</i>	Bulk Freighter	1913	175	Alpena
<i>Shamrock</i>	Steam Barge	1905	11	Alpena
<i>Kyle Spangler</i>	Brig	1860	145	Alpena
<i>William H. Stevens</i>	Schooner	1863	10	Alpena
<i>William P. Thew</i>	Steam Barge	1909	84	Alpena
<i>Typo</i>	Schooner	1899	155	Presque Isle
<i>Lucinda Van Valkenburg</i>	Schooner	1887	60	Alpena
<i>Venus</i>	Schooner	1887	12	Alcona
<i>Viator</i>	Ocean Vessel	1935	188	Alpena
<i>Vienna</i>	Schooner	1906	70	Alpena
<i>John F. Warner</i>	Schooner	1890	9	Alpena
<i>D.M. Wilson</i>	Bulk Freighter	1894	48	Alpena
<i>Cornelia B. Windiate</i>	Schooner	1875	190	Presque Isle
<i>William A. Young</i>	Schooner	1911	40	Alpena

Alternative C:

<u>Vessel Name</u>	<u>Vessel Type</u>	<u>Year Lost</u>	<u>Depth</u>	<u>County</u>
<i>Albany</i>	Paddle Wheeler	1853	5	Presque Isle
<i>E.B. Allen</i>	Schooner	1871	100	Alpena
<i>American Union</i>	Schooner	1894	10	Presque Isle
<i>John J. Audubon</i>	Schooner	1854	170	Presque Isle
<i>Barge No. 1</i>	Barge	1918	42	Alpena
<i>Barge No. 12</i>	Barge	1975	35	Alpena

<i>Barge No. 83</i>	Barge	1941	70	Alpena
<i>D.N. Barney</i>	Schooner	1849	15	Presque Isle
<i>F.T. Barney</i>	Schooner	1868	165	Presque Isle
<i>Harvey Bissell</i>	Schooner	1905	15	Alpena
<i>B.W. Blanchard</i>	Steam Barge	1904	9	Alpena
<i>H.P. Bridge</i>	Schooner	1869	150	Alcona
<i>Alvin Buckingham</i>	Schooner	1870	8	Alcona
<i>Carbide Barge</i>	Barge	unknown	92	Alpena
<i>City of Alpena</i>	Tug	1880	9	Alcona
<i>Congress</i>	Propeller	1868	17	Alpena
<i>Corsican</i>	Schooner	1893	160	Alpena
<i>Cuyahoga</i>	Schooner	1886	18	Presque Isle
<i>Czar</i>	Schooner	1875	7	Presque Isle
<i>James Davidson</i>	Bulk Freightier	1883	38	Alpena
<i>Defiance</i>	Schooner	1854	185	Presque Isle
<i>Detroit</i>	Steam Barge	1872	15	Alcona
<i>Dump Scow</i>	Barge	unknown	140	Alpena
<i>Duncan City</i>	Tug	1923	40	Presque Isle
<i>Empire State</i>	Schooner	1877	12	Alpena
<i>Joseph S. Fay</i>	Bulk Freightier	1905	15	Presque Isle
<i>Millard Fillmore</i>	Schooner	1891	185	Alcona
<i>Oscar T. Flint</i>	Steam Barge	1909	32	Alpena
<i>Florida</i>	Package Freightier	1897	206	Presque Isle
<i>Benjamin Franklin</i>	Paddle Wheeler	1850	15	Alpena
<i>W.C. Franz</i>	Bulk Freightier	1934	230	Alcona
<i>Galena</i>	Steam Barge	1872	16	Alpena
<i>W.H. Gilbert</i>	Bulk Freightier	1914	255	Alcona
<i>Golden Voyage</i>	Cabin Cruiser	1994	0	Alpena
<i>Grecian</i>	Bulk Freightier	1906	98	Alpena
<i>James H. Hall</i>	Schooner	1916	6	Alpena
<i>D.R. Hanna</i>	Bulk Freightier	1919	130	Alpena
<i>John Jewett</i>	Schooner	1898	12	Presque Isle
<i>Henry J. Johnson</i>	Bulk Freightier	1902	160	Presque Isle
<i>John T. Johnson</i>	Schooner	1904	7	Alpena
<i>Knight Templar</i>	Schooner	1903	5	Alpena
<i>Light Guard</i>	Schooner	1903	6	Alpena
<i>Mackinaw</i>	Steam Barge	1890	7	Alcona
<i>Maid of the Mist</i>	Schooner	1878	7	Alpena
<i>Marine City</i>	Paddle Wheeler	1880	5	Alcona
<i>W.G. Mason</i>	Tug	1926	22	Presque Isle
<i>William Maxwell</i>	Tug	1908	12	Alpena
<i>Monohansett</i>	Steam Barge	1907	18	Alpena
<i>Monrovia</i>	Ocean Vessel	1959	140	Alpena
<i>Montana</i>	Steam Barge	1914	66	Alpena
<i>New Orleans</i>	Paddle Wheeler	1849	13	Alpena
<i>New Orleans</i>	Bulk Freightier	1906	145	Alpena

<i>New York</i>	Package Freighter	1910	90	Alcona
<i>Nordmeer</i>	Ocean Vessel	1966	35	Alpena
<i>Norman</i>	Bulk Freighter	1895	180	Presque Isle
<i>North Point Barge</i>	Barge	unknown	1	Alpena
<i>Northwestern</i>	Schooner	1850	135	Presque Isle
<i>Ogarita</i>	Schooner	1905	30	Alpena
<i>E.B. Palmer</i>	Schooner	1892	16	Alpena
<i>O.E. Parks</i>	Steam Barge	1929	62	Alpena
<i>Pewabic</i>	Propeller	1865	170	Alpena
<i>Portsmouth</i>	Propeller	1867	8	Alpena
<i>William P. Rend</i>	Steam Barge	1917	17	Alpena
<i>Scanlon's Barge</i>	Barge	unknown	17	Alpena
<i>Isaac M. Scott</i>	Bulk Freighter	1913	175	Alpena
<i>Shamrock</i>	Steam Barge	1905	11	Alpena
<i>Kyle Spangler</i>	Brig	1860	145	Alpena
<i>William H. Stevens</i>	Schooner	1863	10	Alpena
<i>William P. Thew</i>	Steam Barge	1909	84	Alpena
<i>Typo</i>	Schooner	1899	155	Presque Isle
<i>Lucinda Van Valkenburg</i>	Schooner	1887	60	Alpena
<i>Venus</i>	Schooner	1887	12	Alcona
<i>Viator</i>	Ocean Vessel	1935	188	Alpena
<i>Vienna</i>	Schooner	1906	70	Alpena
<i>John F. Warner</i>	Schooner	1890	9	Alpena
<i>D.M. Wilson</i>	Bulk Freighter	1894	48	Alpena
<i>Cornelia B. Windiate</i>	Schooner	1875	190	Presque Isle
<i>William A. Young</i>	Schooner	1911	40	Alpena

Table 2

The following undiscovered wrecks may be located in this area of Lake Huron:

<u>Vessel Name</u>	<u>Vessel Type</u>	<u>Year Lost</u>	<u>Probable County</u>
<i>Acme</i>	Tug	1893	Alcona
<i>Acontias</i>	Schooner	1887	Presque Isle
<i>Adriatic</i>	Schooner	1863	Presque Isle
<i>Agate</i>	Schooner	1857	Presque Isle
<i>Aimee</i>	Tug	1880	Alpena
<i>Avon</i>	Propeller	1869	Presque Isle
<i>Scow 105</i>	Barge	1934	Alpena
<i>Bay City</i>	Schooner	1902	Alpena
<i>Beau Grand</i>	Cabin Cruiser	1970	Alcona
<i>B.H. Becker</i>	Tug	1937	Alcona
<i>Philo S. Bemis</i>	Tug	1872	Alpena
<i>Francis Berriman</i>	Schooner	1877	Alcona
<i>Bertha May</i>	Schooner	1930	Alpena
<i>P.H. Birkhead</i>	Steam Barge	1905	Alpena

<i>D.R. Braman</i>	Schooner	1870	Alcona
<i>Nellie Brampton</i>	Yacht	1854	Alpena
<i>Kate L. Bruce</i>	Schooner	1877	Alpena
<i>Caledonia</i>	Schooner	1860	Alcona
<i>W.S. Carkin</i>	Tug	1887	Presque Isle
<i>Cascade</i>	Schooner	1900	Alcona
<i>Stephen Chase</i>	Tug	1933	Presque Isle
<i>Choctaw</i>	Bulk Freighter	1915	Presque Isle
<i>Clifton</i>	Bulk Freighter	1924	Presque Isle
<i>Commodore Foot</i>	Schooner	1867	Alpena
<i>Darien</i>	Schooner	1870	Presque Isle
<i>Edward U. Demmer</i>	Bulk Freighter	1923	Alcona
<i>J.N. Dewey</i>	Tug	1920	Alpena
<i>C.K. Dixon</i>	Schooner	1877	Alpena
<i>Don Quixote</i>	Paddle Wheeler	1836	Alpena
<i>Dottie</i>	Tug	1921	Presque Isle
<i>Effort</i>	Barge	1901	Alpena
<i>Marion Egan</i>	Schooner	1875	Alpena
<i>Egyptian</i>	Bulk Freighter	1897	Alcona
<i>Emerald</i>	Steam Barge	1909	Alpena
<i>Equator</i>	Schooner	1880	Alpena
<i>Etruria</i>	Bulk Freighter	1905	Presque Isle
<i>Excelsior</i>	Barkentine	1871	Alpena
<i>Exile</i>	Schooner	1916	Alcona
<i>Fame</i>	Schooner	1887	Presque Isle
<i>Nellie Gardner</i>	Schooner	1883	Alpena
<i>Glad Tidings</i>	Schooner	1898	Presque Isle
<i>Gold Hunter</i>	Schooner	1879	Alcona
<i>Havre</i>	Schooner	1845	Alpena
<i>Henry Hagar</i>	Schooner	1868	Alcona
<i>Harvest Queen</i>	Schooner	1880	Presque Isle
<i>Harwich</i>	Schooner	1858	Presque Isle
<i>Hathaway Colonel</i>	Schooner	1881	Alcona
<i>Henry Hubbard</i>	Schooner	1845	Alpena
<i>Invincible</i>	Barkentine	1869	Presque Isle
<i>Ironton</i>	Schooner	1894	Presque Isle
<i>Ishpeming</i>	Schooner	1903	Alcona
<i>Jeka</i>	Tug	1930	Alpena
<i>Jupiter</i>	Schooner	1901	Alpena
<i>Kaliyuga</i>	Bulk Freighter	1905	Presque Isle
<i>Lady Franklin</i>	Schooner	1895	Presque Isle
<i>Julia Larsen</i>	Schooner	1912	Alpena
<i>Lathrop</i>	Schooner	1902	Alpena
<i>John C. Liken</i>	Steam Barge	1890	Presque Isle
<i>Loretta</i>	Steam Barge	1896	Alcona
<i>J.H. Magruder</i>	Schooner	1895	Alcona

<i>J.B. Martin</i>	Schooner	1869	Presque Isle
<i>L.M. Mason</i>	Schooner	1861	Presque Isle
<i>M.F. Merrick</i>	Schooner	1889	Presque Isle
<i>Kate Moffatt</i>	Tug	1885	Presque Isle
<i>Fred A. Morse</i>	Schooner	1892	Alpena
<i>Murray Co. Dredge</i>	Barge	1906	Alpena
<i>W.S. Nelson</i>	Schooner	1861	Presque Isle
<i>Neshoto</i>	Schooner	1872	Alcona
<i>New Hampshire</i>	Schooner	1884	Alcona
<i>Ninna</i>	Schooner	1875	Alcona
<i>Nonpareil</i>	Schooner	1866	Alpena
<i>Northern Light</i>	Barge	1880	Alcona
<i>Northampton</i>	Schooner	1854	Alpena
<i>Jay Ochs</i>	Tug	1905	Alpena
<i>Ohio</i>	Bulk Freighter	1894	Presque Isle
<i>Oswegatchie</i>	Steam Barge	1891	Alcona
<i>Portland</i>	Schooner	1877	Presque Isle
<i>Lucy Raab</i>	Schooner	1862	Alpena
<i>Racer</i>	Schooner	1869	Presque Isle
<i>Ralph</i>	Tug	1920	Alpena
<i>Annie C. Raynor</i>	Schooner	1863	Alpena
<i>Reindeer</i>	Schooner	1895	Presque Isle
<i>Roanoke</i>	Schooner	1866	Alpena
<i>Rosalie Claire</i>	Tug	1934	Presque Isle
<i>W.H. Rounds</i>	Schooner	1905	Alcona
<i>J.E. Rumbell</i>	Steam Barge	1907	Alpena
<i>William H. Simons</i>	Barge	1933	Alpena
<i>Snow Drop</i>	Schooner	1892	Alpena
<i>Kyle Spangler</i>	Brig	1860	Alpena
<i>J.H. Stevens</i>	Steam Barge	1927	Presque Isle
<i>Syracuse</i>	Schooner	1863	Presque Isle
<i>Thousand Islander</i>	Ferry	1928	Alcona
<i>Topaz VII</i>	Yacht	1941	Presque Isle
<i>Tu Jax I</i>	Yacht	1913	Alpena
<i>Tu Jax II</i>	Yacht	1915	Alpena
<i>Utica</i>	Schooner	1837	Presque Isle
<i>Wanderer</i>	Yacht	1924	Alpena
<i>Wavertree</i>	Schooner	1867	Alcona
<i>G.W. Wesley</i>	Schooner	1901	Alpena
<i>Belle Wilson</i>	Steam Barge	1888	Alpena
<i>Mary Woolson</i>	Schooner	1920	Alcona