

# RECOMMENDED COURSES



**LAKE CARRIERS' ASSOCIATION**



**CANADIAN SHIPOWNERS ASSOCIATION**

We are Short Sea Shipping

**1990**

**SUPERSEDING ALL PREVIOUS ISSUES**

**TO MASTERS OF VESSELS SAILING THE GREAT LAKES:**

The separate courses and limits of anchorage described in this pamphlet have been adopted by the Lake Carriers' Association and the Canadian Shipowners Association on the recommendations made from time to time by the respective Navigation Committees of the two Associations.

Strict observance of these courses is urged on all masters in the interest of safety. They are recognized by government agencies and are delineated on general charts of the Great Lakes.

It is understood that Masters may exercise discretion in departing from these courses when ice and/or weather conditions are such as to warrant departure.

**LAKE CARRIERS' ASSOCIATION**

George J. Ryan, President

**CANADIAN SHIPOWNERS ASSOCIATION**

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## **SEPARATE COURSES**

### **LAKE ONTARIO**

#### **Downbound**

Downbound vessels from Port Weller to Cape Vincent from a position of .5 miles off Port Weller breakwaters, shall lay a course 048° for 8.5 miles to pass not more than 1.5 miles off Niagara Bar LB 2; then steer 074° for 103 miles to a position not less than 7 miles off Point Petre; then steer 069° for 27 miles to a position 3.5 miles off Main Duck Island Lt.; then steer 039° for 12.2 miles to East Charity Shoal Traffic LB.

Downbound vessels from Toronto, Port Credit or Clarkson from a position not less than 3.8 miles off Toronto Main Harbour Channel Range Front Light shall lay a course 085° 113.75 miles to a position not less than 7 miles off Point Petre; then recommended downbound courses of 069° and 039° to East Charity Shoal Traffic LB.

Downbound vessels from Port Weller to Toronto, from a position .5 miles off Port Weller breakwaters, shall lay a course of 314° for 4 miles; then 349° for 20 miles to a position not less than 3.8 miles off Toronto Main Harbour Channel Range Front Lt.

Downbound vessels from Port Weller to Hamilton from a position .5 miles off Port Weller breakwaters shall lay a course of 314° for 4 miles; then 273° for 25 miles to Burlington Canal Entrance LBB MH.

#### **Upbound**

Upbound vessels from Cape Vincent to Port Weller, from East Charity Shoal Traffic LB, shall lay a course 240° for 14.5 miles to a position .5 miles off Psyche Shoal LBB 12; then 249° for 22.5 miles to a position not more than 3 miles off Point Petre; then 254° for 102 miles to a position not less than 5.5 miles off Niagara Bar LB 2; then 212° for 11.25 miles to a position .5 miles off Port Weller breakwaters.

Upbound vessels from Cape Vincent to Toronto, Port Credit, or Clarkson, from a position not more than 3 miles off Point Petre, shall lay a course of 263° for 113.25 miles to a position more than 2.8 miles off Toronto Main Harbour Channel Range Front Lt.; then to destination.

Upbound vessels from Toronto to Port Weller, from a position not less than 3.8 miles off Toronto Main Harbour Channel Range Front Lt. shall lay a course of 163° for 23.5 miles to a position .5 miles off Port Weller breakwaters.

Upbound vessels from Hamilton to Port Weller, from a position .5 miles off Burlington piers, shall lay a course of 098° for 28.7 miles to a position .5 miles off Port Weller breakwaters.

## **LAKE ERIE**

### **Downbound**

Vessels leaving the Detroit River for ports east of Middle Ground Shoal shall continue on course 164° until .9 mile beyond East Outer Channel Lt. 1; then set course 095° for 27 miles for Pelee Passage Traffic LBB; then steer 122° for 8.5 miles to pass one mile south of Southeast Shoal Lt.

Downbound vessels for Port Colborne or Buffalo from point of departure, Southeast Shoal, shall lay a course of 071° for 135 miles to pass not more than 9 miles off Long Pt.; then steer 054° for 45 miles to Port Colborne or steer 063° for 60 miles to Buffalo.

### **Upbound**

Upbound vessels from Port Colborne or Buffalo to a point on the south shore east of Marblehead, lay a course to pass not over 5 miles off Presque Isle Lt. The course from Port Colborne is 228° for 62 miles, and the course from Buffalo is 236° for 77 miles.

Upbound vessels for Southeast Shoal from Port Colborne or Buffalo lay a course to pass not over 3 miles off Long Point. The course from Port Colborne is 241° for 44 miles, and the course from Buffalo is 248° for 60 miles; then steer 249° for 134 miles to a position 1 mile south of Southeast Shoal.

Upbound vessels for Detroit River Lt. departing from a position 1 mile south of Southeast Shoal Lt. shall steer 302° for 8.5 miles to a position 325<sup>3/4</sup>° 1.75 miles from Pelee Passage Lt.; then steer 275° for East Outer Channel Lt. 1.

For Toledo or Monroe, when .75 miles off Pelee Passage Lt. steer 272° to pass 1.5 miles north of Middle Sister Island Lt.; then to destination.

## **LAKE HURON**

### **Downbound**

Downbound vessels shall lay a course from DeTour Passage of 137° for 56 miles to pass not less than 15 miles 045° from Middle Island Lt., then a course of 161° for 105 miles to not less than 12 miles 067° from Harbor Beach Lt.; then a course of 180° for 57 miles to the entrance to Lake Huron Cut.

Downbound vessels from the Straits of Mackinac shall lay a course of 070° for 6 miles from a point south of Poe Reef; then a course of 115° for 61 miles to join the regular downbound course from DeTour Passage at a point not less than 15 miles 045° from Middle Island Lt.

Downbound vessels from Calcite from a point ¾ of a mile off Adams Pt. shall lay a course of 100° for 30 miles to intersect the regular downbound course from DeTour Passage at a point not less than 15 miles 045° from Middle Island Lt.

Downbound vessels from Stoneport Harbor shall lay a course of 098° for 18 miles to intersect the regular downbound course from DeTour Passage at a point 14 miles 071° from Middle Island Lt.

Downbound vessels from Alpena shall steer 159° for 58 miles on Harbor Beach Lt. to a point 12 miles 353° from Pte. aux Barques Lt.; then a course of 134° for 28 miles to intersect the regular downbound course from DeTour Passage at a point 12 miles 067° from Harbor Beach Lt.

Downbound vessels from DeTour Passage to Cove Island from a position abreast of DeTour Light shall lay a course of 137° for 12 miles; then 123° for 37 miles to a position 10 miles 213° from Great Duck Island Lt., then 103° for 61.25 miles to a position with Cove Island LBB T abeam.

Downbound vessels from Cove Island to Lake Huron Cut from a position abreast of Cove Island LBB T shall lay a course of 224° for 7 miles; then 189° for 151 miles to Lake Huron Cut.

### **Eastbound from the Straits to Westside Lake Huron Ports**

Eastbound vessels from the Straits to northern ports on Lake Huron shall take departure from ½ mile north-northeast of Cordwood Pt. LB 1 and steer not less than 117° for 45.5 miles to a point 2.5 miles off Presque Isle Light; then steer 138° for 2¾ miles to a point on the upbound recommended course off Nordmeer Wreck LBB WR1.

Southbound vessels bound for Alpena from Nordmeer Wreck LBB WR1 shall steer 189° for 7 miles to a point 1½ miles 100° from Thunder Bay Island Lt.; then steer 227° for 5¾ miles to Thunder Bay Traffic Buoy; then to destination.

Southbound vessels bound for Saginaw from Nordmeer Wreck WR1 shall steer 181° for 29 miles to a point 6 miles east of Sturgeon Pt. Lt.; then steer 188° for 27¼ miles to a point 3 miles east of Au Sable Pt. LB1, then steer 224° for 19½ miles to Charity Island LBB 5; then to destination.

### **Upbound**

Upbound vessels shall lay a course of 353° for 54 miles to pass not more than 5 miles 067° from Harbor Beach Lt.; then steer 341° for 99 miles to pass not over 7 miles 071° off Middle Island Lt.; then a course of 325° for 60 miles to DeTour Passage.

Upbound vessels for the Straits of Mackinac shall lay a course of 318° for 16.5 miles from off Middle Island Lt. to a point 5 miles 050° from Presque Isle Lt.; then steer a course of 295° for 47 miles to abreast of Cordwood Pt. LB 1; then steer a course of 270° for 3 miles to a point off Poe Reef Lt.

Eastbound vessels from Round Island Passage shall lay a course of 090° for 22 miles to a point 4.75 miles off Martin Reef Lt.; then steer a course of 061° for 14 miles to a point .75 miles 128° from DeTour Lt.

Upbound vessels from Lake Huron Cut to Cove Island shall steer a course of 037° for 15 miles; then steer a course of 008° for 143.5 miles to Cove Island LBB T.

Upbound vessels from Cove Island to DeTour Passage from a position abreast of O'Brien Patch LBB TC shall lay a course of 284° for 61.5 miles to a position 6 miles 194° from Great Duck Island Lt.; then steer 300° for 48 miles to a position 3 miles 137° from DeTour Lt.; then steer 317° for 3 miles to a point .75 miles 128° from DeTour Lt.

### **Anchorage**

It is recommended that the following limit of anchorage be observed in Lake Huron off DeTour Light so that vessels may enter or leave DeTour Passage in time of congestion due to fog or other conditions: No vessel to anchor east of bearing on DeTour Light of 340°, or closer than .75 mile to the light or north of the DeTour-Martin Reef course.

## **LAKE SUPERIOR**

### **Downbound**

Downbound vessels shall lay a course of 063° for 72 miles from Duluth Entry to pass not less than 12 miles off Devils Island Light; then a course of 078° for 123.25 miles to pass not less than 12 miles off Eagle Harbor Light; then 086° for 14 miles to pass not less than 12 miles off Copper Harbor Light; then 105° for 18.25 miles to pass not less than 12 miles off Manitou Island Light; then 114° for 131.5 miles to pass not less than 2.5 miles off Whitefish Pt. Light; then 148° for 14.75 miles to a point 2.5 mil off Ile Parisienne Light; and then 139° for 9.75 miles to off Gros Cap Reefs Light; PROVIDED that vessels leaving Superior Harbor shall lay their course of 045° for 19.75 miles before turning on their course for Devils Island.

Downbound vessels from Two Harbors shall lay a course of 068° for 47 miles to a position not less than 12 miles off Devils Island, then join the general downbound course.

Downbound vessels from Taconite Harbor shall steer 088° for 129.5 miles to a point not less than 12 miles north of Eagle Harbor and there join the general downbound course.

Downbound vessels from Silver Bay shall steer 080° for 147 miles to a point 12 miles north of Eagle Harbor and there join the general downbound course.

Downbound vessels from Ashland shall lay a course of 062° for 133.75 miles from South Channel to intersect the downbound course from Duluth 12 miles north of Eagle Harbor Light.

Downbound vessels from Marquette and Presque Isle shall take departure from a point 076° 2 miles from Presque Isle Harbor Breakwater Lt. and shall lay a course of 076° for 58¼ miles to pass not less than 7 miles off Au Sable Light; then a course of 083° for 48¾ miles to pass not less than 7 miles off Crisp Pt. Light and continue for 5.25 miles until intersecting the downbound

course from Manitou to Whitefish Pt. The foregoing may be accomplished from Marquette by steering 034° for 3.75 miles to the above point of departure, then laying the 076° course.

Downbound vessels from Thunder Bay, Kaministiquia River entrance, shall take departure from a point not more than 0.5 miles 047° from Welcome Island Light and shall lay a course of 137° for 9.25 miles to a position not less than 2.5 miles 227° from Thunder Cape.

From Mission River Entrance, vessels shall take a departure from the Entrance Breakwater Light and shall lay a course of 110° for 2.5 miles; then 118° for 8.75 miles to a position not less than 2.5 miles 227° from Thunder Cape.

Vessels shall now lay a course of 098° for 26 miles passing not less than 2 miles 187° off Thunder Cape and passing not less than 1.75 miles 187° from Trowbridge Island Light in order to pass not more than 2.5 miles off Blake Pt. Light abeam; then 121° for 2 miles to a point not less than 1 mile 211° from Passage Island Light; then 148° for 15 miles; then 119° for 175.25 miles to a point not less than 2.5 miles 030° from Whitefish Point; then joining the downbound course to Ile Parisienne.

### **Upbound**

Upbound vessels for the south shore and western Lake Superior points shall lay a course from Pt. Iroquois Shoal LBB 45, east of Pt. Iroquois of 300° for 5 miles; then 319° for 7 miles to a point 4 miles off Ile Parisienne Light; then 328° for 14.25 miles to a point 1 mile off Whitefish Pt. Light; then lay a course not over 280° for 14.25 miles to a point not more than 4.5 miles off Crisp Pt. Lt.; then 292° for 133.25 miles to pass not more than 4 miles off Manitou Lt. and not more than 5 miles off Copper Harbor Lt.; then 266° for 14 miles to pass not more than 5 miles off Eagle Harbor Lt.; then 258° for 123.5 miles to pass not more than 5 miles off Devils Island Lt.; then to destination as follows:

- 243° for 67.75 miles to Superior
- 248° for 69.25 miles to Duluth
- 258° for 45 miles to Two Harbors

Upbound vessels for Taconite Harbor shall follow the general upbound course to a point 5 miles north of Copper Harbor, then steer 270° for 143.5 miles to destination.

Upbound vessels for Silver Bay shall follow the general upbound course to a point 8 miles north of Outer Island; then steer 279° for 39 miles to destination.

Upbound vessels for Ashland when 5 miles north of Eagle Harbor Lt. shall lay a course of 244° to pass 6.5 miles off Michigan Island Lt.; then steer 254° for 12 miles to South Channel.

Upbound vessels for Marquette shall lay a course of 263° for 43 miles from a point not over 4.5 miles off Crisp Pt. Lt. to pass not more than 4.5 miles off Au Sable Lt.; then 256° for 60.5 miles to destination.

Upbound vessels for Thunder Bay shall take departure from a point .6 miles 293° from Gros Cap Reefs Lt.; then steer 000° for 1.5 miles; then head on Whitefish Pt. Lt. steering 319° for 8.6 miles to a point 1.5 miles 230° from Ile Parisienne Lt.; then 340° for 13 miles to a point 6 miles 065° from Whitefish Pt. Lt.; then 300° for 192 miles to a point not more than .5 miles 211° from Passage Island Lt.; then 310° for 3 miles; then 277° for 26 miles, passing not more than .75 miles 187° from Trowbridge Island Lt., not more than 1 mile 187° off Thunder Cape and not more than .5 miles 170° off Hare Island Reef Lighted Buoy A2; then 319° for 8¼ miles to pass not less than 1¼ miles 047° from Welcome Island Lt.; then to destination.

Vessels bound for Mission River entrance, from the position not more than .75 miles 187° from Hare Island Reef Lighted Buoy A2, shall lay a course of 292° for 8 miles; then 290° for 2½ miles to destination.

Vessels upbound for other destinations on the north shore of Lake Superior shall follow the courses as laid down from Gros Cap Reefs Light to the position 6 miles 065° from Whitefish Pt. Lt.; then to destination.

### **Anchorage**

Limits of anchorage in Whitefish Bay are recommended as follows: From a point on the Birch Pt. Range .5 miles above Gros Cap, 340° for 2.5 miles; then 314° to a point 2 miles off Ile Parisienne Lt. From a point on the Birch Pt. Range .5 miles above Gros Cap, 229° for .5 miles; thence 300° for 2.7 miles; thence to a point 3.5 miles off Ile Parisienne Lt.

No downbound vessel shall proceed from this anchorage area unless authorized to do so by the U.S. Coast Guard.

## **LAKE MICHIGAN**

### **Southbound**

Southbound vessels, bound for Milwaukee and west shore points north thereof shall run out on a course of 241° for 30 miles from a point of departure abreast of Lansing Shoal on course to Rock Island Passage then steer 205° for 202.5 miles to Milwaukee, or other courses to destination.

Southbound vessels, bound for west shore points south of Milwaukee shall run out on a course of 241° for 30 miles from a point of departure abreast of Lansing Shoals on course to Rock Island Passage; then steer 196° for 208 miles to a point east of Wind Pt. to intersect the regular southbound track; vessels bound for Calumet or Indiana Harbor steer 188° for 69.5 miles; vessels bound for Buffington or Gary steer 183° for 73.6 miles; vessels bound for Burns Harbor change course 19.7 miles prior to reaching the point east of Wind Pt. and steer 180° for 96.75 miles.

Southbound vessels from Sturgeon Bay bound for ports near the south end of Lake Michigan shall lay a course of 172° for 47.5 miles to a point 19 miles 114.75° from Rawley Pt. Lt.

Southbound vessels from Porte Des Morts Passage bound for the south end of Lake Michigan shall lay a course of 189° for 79.5 miles to a point 19 miles 114.75° from Rawley Pt. Lt.

From the point 19 miles east of Rawley Pt. vessels shall steer 183° for 165.25 miles to Buffington or Gary or when 090° from Wind Pt. vessels can change course to 188° for 69.5 miles to Calumet or Indiana Harbor.

Southbound vessels from the Straits of Mackinac bound for east shore points may use the Grays Reef Passage or the northabout course by Lansing Shoal. If they choose to use the Grays Reef Passage they shall lay a course from the Mackinac Bridge steering 275° until abeam of New Shoal LB1 when change is made to 260°. Steer 260° until turning to the 186° course through Grays Reef with White Shoal bearing 006°.

From Grays Reef, take departure from Grays Reef Passage steering 237° and haul to 217° when abeam Ile Aux Galets Lt. Then when abeam Leland Lt., change course to 197° until abeam North Manitou Shoals Lt. when haul is made to 242° for 13<sup>3</sup>/<sub>8</sub> miles for Sleeping Bear.

When abeam of Sleeping Bear LBB 7, steer 205° for 17.5 miles to a point 3.75 miles west of Pt. Betsie Lt.; then steer 195° for 45 miles to a point 3¼ miles west of Big Sable Lt.; then steer 183° for 28 miles to a point 3 miles west of Little Sable Lt.; then to destination.

### **Northbound**

Northbound vessels for the Straits of Mackinac will navigate via Manitou Passage. This rule does not apply to vessels coming out of Green Bay. Vessels from Southern Lake Michigan set a course for a point 4.75 miles abreast of Big Sable. These courses and distances are: from Burns Harbor 009° for 169.5 miles; from Gary and Buffington 012° 168 miles; from Calumet and Indiana Harbor 015° 163.75 miles, and from Chicago 017° 158 miles; then, from abreast Big Sable, steer 015° for 44 miles until 5.75 miles from Pt. Betsie Lt.; then steer 029° for 17.5 miles until abreast of Sleeping Bear LBB7; then steer 062° for 14.5 miles until abreast of N. Manitou Shoal Lt.; then 037° for 64.75 miles to Grays Reef.

Vessels eastbound out of St. Martin and Rock Island Passages shall set a course to pass not more than 6 miles off Seul Choix Pt. Taking departure from Rock Island Passage Lighted Traffic Buoy the course is 056° for 58 miles.

Vessels northbound from ports near the south end of Lake Michigan to Escanaba shall set course for not more than 8 miles off Wind Pt. Vessels from Gary and Buffington steer 350° for 75.75 miles; vessels from Calumet and Indiana Harbor steer 354° for 69 miles. Then steer 006° for 98.75 miles to a point not more than 5 miles off Rawley Pt.; then steer 020° for 75.25 miles to Porte Des Morts Entrance LBB.

Northbound vessels to Port Inland from near the southern end of Lake Michigan shall follow the northbound Manitou course to a point 5.75 miles abreast Pt. Betsie; then steer 013° for 63.5 miles to a point 4 miles west of Boulder Reef; then steer 022° for 23.75 miles to Port Inland LBB 2; then steer 000° 4 miles to destination.