

CANADIAN COAST GUARD MARINE COMMUNICATIONS AND TRAFFIC CONTROL CENTRES

Marine Communications and Traffic Services (MCTS) Centres provide continuous marine broadcasts for the Great Lakes region using Marine VHF channels 21B and 83B. A French language broadcast is available for the St. Lawrence River region on channels 23B and 28B. The continuous marine broadcast will be supplemented by live broadcasts of important weather information on receipt with initial call-up on channel 16.

161.650 MHz (ch 21B)
161.775 MHz (ch 83B)

NOAA WEATHER RADIO
SPECIFIC AREA MESSAGE ENCODER (SAME)

The Federal Communications Commission (FCC) has approved the special SAME code to delineate marine areas. Mariners with NOAA Weather Radio receivers equipped with SAME should check out:

<http://www.nws.noaa.gov/om/marine/wxradio.htm>
for information on how to program their receivers.

For a listing of marine area and zone codes for SAME, go to:
<http://www.nws.noaa.gov/geodata/catalog/wsom/html/marinewreas.htm>
and click the Emergency Alert System (EAS) link.

DIAL - A - BUOY

Dial-A-Buoy gives mariners an easy way to obtain reports via a cell-phone. Dial-A-Buoy provides wind and wave measurements taken within the last hour at National Data Buoy Center (NDBC) buoy and Coastal Marine Automated Network (C-MAN) stations. The stations are operated by NDBC, part of the National Weather Service, are located in the Atlantic, Pacific, Gulf of Mexico, and the Great Lakes. The Dial-A-Buoy service has been expanded to include stations owned and operated by other organizations including the United Kingdom Met Office and Environment Canada. To access Dial-A-Buoy, dial (228) 688-1948 using any touch-tone or cell-phone. For internet users, more information is at: <http://seaboard.ndbc.noaa.gov/dial.shtml>

INTERNET ADDRESSES

- National Weather Service
<http://www.nws.noaa.gov>
- National Weather Service - MSC Charts
<http://www.nws.noaa.gov/om/marine/pub.htm>
- National Weather Service - Marine Dissemination
<http://www.nws.noaa.gov/om/marine/home.htm>
- National Data Buoy Center
<http://seaboard.ndbc.noaa.gov>
- U.S. Coast Guard Navigation Center
<http://www.navcen.uscg.gov>

NATIONAL WEATHER SERVICE RADIOFAX AND TEXT FORECASTS AVAILABLE VIA E-MAIL (FTPMAIL)

National Weather Service radiofax charts and text forecasts are available via E-mail. The FTPMAIL server is intended to allow Internet access for mariners and other users who do not have direct access to the World Wide Web but who are equipped with an e-mail system. Turnaround time is generally in under 1 hour, however, performance may vary widely and receipt cannot be guaranteed. To get started in using the NWS FTPMAIL service, follow these simple directions to the FTPMAIL "help" file (11 bytes).

Address: ftpmail@weather.noaa.gov
Subject: (not required)
Body: help

Direct any questions to 301-713-1677, extension 128,
or 301-713-0882, extension 122.

OTHER MARINE WEATHER SERVICES CHARTS AVAILABLE

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| MSC-1 Eastport, ME to Montauk Point, NY | MSC-8 Mexican Border to Point Conception, CA | Copies of these charts are available for \$1.25 each from:
FAA/National Aeronautical Charting Office
Distribution Division, AVN-530
6303 Ivy Lane, Suite 400
Greenbelt, MD 20770
Telephone: (301) 436-8301
(800) 638-8972 toll free, U.S. only
(301) 436-6829 FAX
E-mail: 9-AMC-chartsales@faa.gov
http://chartmaker.ncd.noaa.gov
or your local chartagent
http://chartmaker.ncd.noaa.gov/nsd/states.html |
| MSC-2 Montauk Point, NY to Manasquan, NJ | MSC-9 Point Conception, CA to Point St. George, CA | |
| MSC-3 Manasquan, NJ to Cape Hatteras, NC | MSC-10 Point St. George, CA to Canadian Border | |
| MSC-4 Cape Hatteras, NC to Savannah, GA | MSC-11/12 Great Lakes | |
| MSC-5 Savannah, GA to Apalachicola, FL | MSC-13 Hawaiian Waters | |
| MSC-6 Apalachicola, FL to Morgan City, LA | MSC-14 Puerto Rico and Virgin Islands | |
| MSC-7 Morgan City, LA to Brownsville, TX | MSC-15 Alaskan Waters | |
| | MSC-16 Guam and the Northern Mariana Islands | |

All of these charts can be viewed on the internet at:
<http://www.nws.noaa.gov/om/marine/pub.htm>

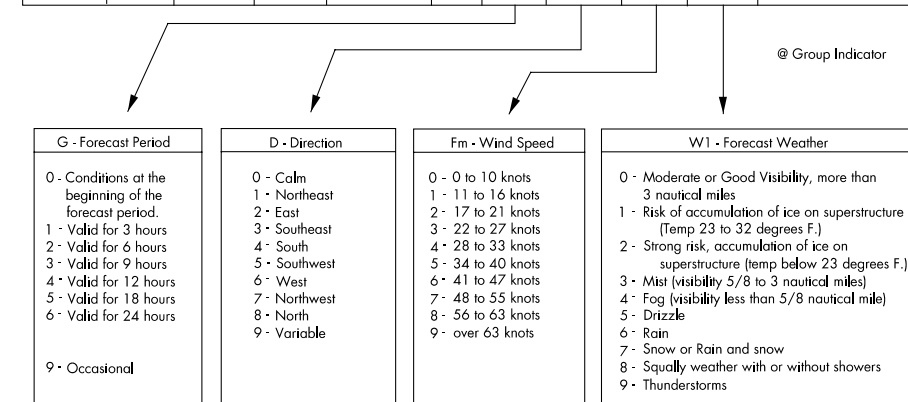
CURRENT AREAS OF MARINE FORECAST RESPONSIBILITY FOR NWS GREAT LAKES OFFICES

Nearshore zones go out five nautical miles from the coast. Warnings are issued for areas out to mid lake.

NWS Office	Official Area of Responsibility	Warning and Forecast Headings
WFO Duluth MN	Lake Superior - US-Canadian border to WI/MI border	Grand Portage to Grand Marais MN Grand Marais to Taconite Harbor MN Taconite Harbor to Silver Bay Harbor MN Silver Bay Harbor to Two Harbors MN Two Harbors to Duluth MN Duluth MN to Port Wing WI Port Wing to Sand Island WI Sand Island to Bayfield WI Chequamegon Bay-Bayfield to Oak Point WI Oak Point to Saxon Harbor WI
WFO Marquette MI	Lake Superior - WI/MI border to Whitefish Point MI	Saxon Harbor WI to Ontonagon MI Ontonagon to Upper Entrance of Portage Canal MI Upper Entrance of Portage Canal to Manitow Island MI Manitou Island to Lower Entrance Light to Portage Lake Keeweenaw Bay and Huron Bay, from Lower Entrance Light to Portage Lake to Huron Islands MI Huron Islands to Marquette MI Marquette to Munising MI Munising to Grand Marais MI Grand Marais to Whitefish Pt. MI Lake Superior MAFOR Lake Superior Open Lake (U.S. Portion) Seul Choix Pt. to Pt. Detour MI Bay of Green Bay north of line from Cedar River to Rock Island Passage
WFO Gaylord MI	Lake Michigan - Schoolcraft/Mackinac MI county line to Rock Island Passage, including northern quarter of Bay of Green Bay	Whitefish Bay (U.S. Portion), Whitefish Pt. to Pt. Iroquois MI St. Marys River, Pt. Iroquois to Eastern Patagonian Bay Mackinac Bridge to Seul Choix Pt. MI Mackinac Bridge to Norwood Grand Traverse Bay, Norwood to Grand Traverse Lt MI Grand Traverse Lt. to Sleeping Bear Pt. MI Sleeping Bear Pt. to Manistee MI
WFO Detroit MI	Lake Huron - Lake Huron - Mackinac Bridge to False Detour Channel and Mackinac Bridge to Iosco/Arenac MI county line	Straits of Mackinac St Ignace to False Detour Channel Presque Island Lt. to Sturgeon Pt Sturgeon Pt. to Alabaster MI
WFO Detroit MI	Lake Huron - Iosco/Arenac MI county line to Port Huron	Lake Huron Open Lake (U.S. Portion) Lake Huron MAFOR Saginaw Bay Port Austin to Harbor Beach MI Harbor Beach to Port Sanilac MI Port Sanilac to Port Huron MI St. Clair River Lake St. Clair (U.S. Portion) Detroit River Detroit River Lt. to North Cape MI
WFO Green Bay WI	Lake Michigan-Rock Island Passage to Manitowoc/Sheboygan WI county line including southern three-quarters of Bay of Green Bay	Bay of Green Bay south of a line from Cedar River MI to Rock Island Passage and north of a line from Marinette WI to Fish Creek WI Bay of Green Bay south of a line from Marinette WI to Fish Creek WI Lake Michigan from Rock Island Passage to Sturgeon Bay WI Lake Michigan from Sturgeon Bay WI to Two Rivers WI Lake Michigan from Two Rivers WI to Sheboygan WI
WFO Milwaukee WI	Lake Michigan - Manitowoc/Sheboygan WI county line to IL/WI border	Sheboygan to Port Washington WI Port Washington to North Pt. Lt. WI North Pt. Lt. to Wind Pt. WI Wind Pt. to Winthrop Harbor IL
WFO Chicago IL	Lake Michigan - IL/WI border to MI/IN border	Lake Michigan Open Lake Lake Michigan MAFOR Winthrop Harbor to Wilmette Harbor IL Wilmette Harbor to Northery Island IL Northery Island IL to Calumet Harbor IL Calumet Harbor IL to Gary IN Gary to Burns Harbor IN Burns Harbor to Michigan City IN Michigan City IN to New Buffalo MI
WFO Grand Rapids MI	Lake Michigan - MI/IN border to Manistee/Mason MI county line	New Buffalo to St Joseph St Joseph to South Haven South Haven to Holland Holland to Grand Haven Grand Haven to Whitehall Whitehall to Pentwater Pentwater to Manistee
WFO Cleveland OH	Lake Erie - MI/OH border to NY/PA border	Lake Erie Open Lake (U.S. Portion) Lake Erie MAFOR Maumee Bay to Reno Beach OH Reno Beach to The Islands OH The Islands to Vermilion OH Vermilion to Avon Point OH Avon Point to Willowick OH Willowick to Geneva-on-the-Lake OH Geneva-on-the-Lake to Conneaut OH Conneaut OH to Ripley NY
WFO Buffalo NY	Lake Erie - NY/PA border to Buffalo Harbor and Niagara River Lake Ontario	Ripley to Dunkirk NY Dunkirk to Buffalo NY Buffalo Harbor and the Upper Niagara River Lake Ontario Open Lake (U.S. Portion) Lake Ontario MAFOR Niagara River to Hamlin Beach NY Hamlin Beach NY to Sodus Bay NY Sodus Bay to Mexico Bay NY Mexico Bay NY to the St. Lawrence River
	Lake Ontario - U.S./Canadian border near Niagara River to U.S./Canadian border at St. Lawrence River St. Lawrence River - Lake Ontario to St. Regis	St. Lawrence River above Ogdensburg NY St. Lawrence River from Ogdensburg to St. Regis NY

WEATHER SERVICE FOR GREAT LAKES SHIPPING
DECODE FOR LAKE AND SEAWAY MARINE FORECASTS (MAFOR)

MAFOR YYG1G1 (Name of Lake) 1GDFmW1										
Keyword (Indicating Marine Forecast)	Day of Month	Time UTC Forecast Period Begins	Solidus	Name of Lake or Seaway	@	Forecast Period	Wind Direction	Wind Speed	Forecast Weather	Height of Waves in Feet at End of Message for Each Lake for the Entire Period
MAFOR	06	10	/	Superior*	1	6	8	3	0	Waves 5 to 10 Feet



*Statement in plain language of Gale or Storm warnings, if any, will follow name of lake or seaway. Time of warnings are in Eastern Standard Time (EST). Small Craft Advisories are not included in MAFOR broadcasts.

The forecast 1GDFmW1 may be repeated as many times as necessary to describe the changes in wind and weather expected in a given area during the 24-hour forecast period. The forecast 1GDFmW1 in which G=1-8, refers to the forecast weather commencing at the time given in the group YYG1G1/ and continuing through the period indicated by G. Subsequent 1GDFmW1 (G=1-8) indicate the period of time that the described weather is forecast to persist, commencing at the end of the period specified in the preceding group 1GDFmW1 (G=1-8). Any forecast 1GDFmW1 (G=1-8) may be followed by 1GDFmW1 (G=1-9); in such cases, G=9 indicates a phenomenon forecast to occur occasionally in the forecast period. On occasion, plain language words are used to describe weather conditions not easily described by the code tables; times are stated in EST.

Wave forecast indicates the expected wave heights at the downwind end or side of the lake; this being the area where the wave height buildup is greatest. Times in EST. Wave heights are usually specified as a range for the 24-hour period, but significant changes (generally variations of more than 5 feet) will be stated. The MAFOR code is not an exact duplicate of the plain language forecast issued for each lake which should be checked for more detail. When daylight savings time is observed, forecasts begin at 03z, 09z, 15z, and 21z. When standard time is observed, forecasts begin at 04z, 10z, 16z, and 22z. These times are equivalent to 5:00 a.m. & p.m. and 11:00 a.m. & p.m. year around.

GREAT LAKES U.S. COAST GUARD WEATHER BROADCAST
VHF VOICE WEATHER BROADCAST CH16/22A

GROUP	BROADCAST TIMES (ALL TIMES IN UTC)
Sault Ste. Marie	0005, 1205
Transmitter Sites:	North Superior, MN; Duluth, MN; Bayfield, WI; Beaver Island, MI; Goetzville, MI; Sault Ste. Marie, MI; Grand Marais, MI; Marquette, MI; Houghton, MI; Munising, MI; Calumet, MI
Milwaukee	0255, 1455
Transmitter Sites:	Sturgeon Bay, WI; Manitowoc, WI; Milwaukee, WI; Chicago, IL; Kenosha, WI; Escanaba, MI
Grand Haven	0235, 1435
Transmitter Sites:	Holland, MI; Ludington, MI; Frankfort, MI.
Detroit	0135, 1335
Transmitter Sites:	Cleveland, OH; Marblehead, OH; Toledo, OH; Belle Isle, MI; Port Huron, MI; Port Austin, MI; Alpena, MI.
Buffalo	0255, 1455
Transmitter Sites:	Ashtabula, OH; Dunkirk, NY; Lewiston, NY; Thirtymile Point, NY; Rochester, NY; Oswego, NY;
Alexandria Bay, NY.	