

NOAA WEATHER RADIO ALL HAZARDS BROADCASTS

CITY	STATION	FREQUENCY	BROADCAST TIMES
Baxley, GA	WXM-65	162.525 MHz	Continuously, 24 hrs a day
Beaufort, SC	WXJ-23	162.450 MHz	Continuously, 24 hrs a day
Brunswick, GA	WWH-39	162.425 MHz	Continuously, 24 hrs a day
Cape Hatteras, NC	KIG-77	162.475 MHz	Continuously, 24 hrs a day
Charleston, SC	KHB-29	162.55 MHz	Continuously, 24 hrs a day
Georgetown, SC	WNG-628	162.500 MHz	Continuously, 24 hrs a day
Jacksonville, FL	KHB-39	162.55 MHz	Continuously, 24 hrs a day
Jesup, GA	WXJ-28	162.450 MHz	Continuously, 24 hrs a day
Metter, GA	WWH-25	162.425 MHz	Continuously, 24 hrs a day
Myrtle Beach, SC	KEC-95	162.40 MHz	Continuously, 24 hrs a day
New Bern, NC	KEC-84	162.40 MHz	Continuously, 24 hrs a day
Savannah, GA	KEC-85	162.40 MHz	Continuously, 24 hrs a day
Wilmington, NC	KHB-31	162.55 MHz	Continuously, 24 hrs a day
Waycross, GA	WXK-75	162.475 MHz	Continuously, 24 hrs a day

These VHF-FM radio stations, locations shown on the map, are managed by the National Weather Service. Broadcasts are updated every 3 to 6 hours and amended as required. Broadcast contents vary, but in general contain the following types of information.

1. Descriptions of the weather patterns affecting the eastern United States and coastal waters.
2. Regional and state forecasts.
3. Marine forecasts and warnings for coastal waters.
4. Weather observations from selected National Weather Service and Coast Guard stations.
5. Radar summaries and reports.
6. Local weather observations and forecasts.
7. Watches, warnings, statements and bulletins concerning adverse and severe weather.

BROADCASTS OF MARINE WEATHER FORECASTS BY US COAST GUARD RADIO STATIONS

The fifth U.S. Coast Guard District stations listed below announce all Broadcast Notice to Mariners (initial call-up) on 2182 kHz (SSB) and /or 156.8 MHz (channel 16 VHF-FM) and shift to 2670 kHz (SSB) and /or 157.1 MHz (channel 22A VHF-FM) where the complete text is broadcast. These stations broadcast marine information and weather information upon receipt and on the following listed times and frequencies.

STATION	CARRIER FREQUENCY (kHz)	BROADCAST TIMES/UTC
Coast Guard Group, Eastern Shore	Ch. 22A 2670 kHz	0200, 1145 0233, 1403
Coast Guard Group, Hampton Roads	Ch. 22A 2670 kHz	0230, 1120 0203, 1333
Coast Guard Group, Cape Hatteras	Ch. 22A 2670 kHz	0100, 1055 0133, 1303
Coast Guard Group, Fort Macon	Ch. 22A 2670 kHz	0130, 1030 0103, 1233
Coast Guard Group, Charleston	Ch. 22A 2670 kHz	1200, 2200 0420, 1620
Coast Guard Group, Mayport	Ch. 22A 2670 kHz	1215, 2215 0620, 1820
Chesapeake (NMN), CAMSLANT	518 NAVTEX "N"	0130, 0530, 0930 1330, 1730, 2130

HIGH SEAS RADIOTELEPHONE WEATHER BROADCASTS FOR THE ATLANTIC

CITY	STATION	CARRIER FREQ. (kHz)	BROADCAST TIMES/UTC
CHESAPEAKE, VA (USCG)	NMN	4426.0	0330, 0515, 0930
		6501.0	0330, 0515, 0930, 1115
		8764.0	1530, 2130, 2315
		13089.0	0330, 0515, 0930, 1115
		1530, 1715, 2130, 2315	
		1115, 1530, 1715, 2130	
		2315	
		17314.0	1715

HIGH SEAS RADIOTELEX (SITOR) WEATHER BROADCASTS FOR THE ATLANTIC

CITY	STATION	ASSIGNED FREQ. (kHz)	BROADCAST TIMES/UTC
BOSTON, MA (USCG)	NMF	6314.0	0140
		8416.5	0140, 1630
		12579.0	0140, 1630
		16806.5	1630

NOAA Weather Radio (NWR), Specific Area Message Encoder (SAME), and NWR Coverage

NOAA Weather Radio broadcasts on 162.40, 162.425, 162.45, 162.475, 162.50, 162.525 and 162.55 MHz can usually be received 20-40 miles from the transmitting antenna site, depending on terrain and the quality of the receiver used. Where transmitting antennas are on high ground, the range is somewhat greater, reaching 60 miles or more. The VHF-FM frequencies used for these broadcasts require narrow-band FM receivers. The National Weather Service recommends receivers having a sensitivity of one microvolt or less for a quieting factor of 20 decibels.

Some receivers are equipped with a warning alarm device that can be turned on by means of a tone signal controlled by the National Weather Service office concerned. This signal is transmitted for 13 seconds preceding an announcement of a severe weather warning.

In addition, the Federal Communications Commission (FCC) has approved the special SAME code to delineate marine areas. Mariners with NWR 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>

The NOAA Weather Radio coverage area indicated are estimates. For these maps, transmitter antenna performance are assumed to be omni-directional. As a result, actual coverage can be different from that depicted on this map. Coverage that is significantly different than depicted on this map should be reported to the local NWS forecast office.

RADIO WWW/WWVH STORM INFORMATION BROADCASTS

HIGH SEAS STORM INFORMATION for the North Atlantic and North Pacific is provided mariners through a cooperative program of two Department of Commerce agencies: the National Weather Service of the National Oceanic and Atmospheric Administration and the National Institute of Standards and Technology. Bulletins are compiled by the National Weather Service and broadcast every hour by the National Institute of Standards and Technology's Frequency and Time Broadcast Services Radio Stations – WWV, Fort Collins, Colorado and WWVH, Kauai, Hawaii. These are the radio stations that sailors and others listen to for daily time checks.

WWV (FORT COLLINS, CO)
FREQUENCIES : 2.5, 5, 10, 15, 20 MHz (AM)

The weather broadcast is in 45-second segments separated by a 15-second interval.

TIMES OF BROADCAST	BROADCAST AREA
8 minutes past the hour	Atlantic high seas warnings
9 minutes past the hour	Atlantic high seas warnings

Radiofax charts for the Gulf of Mexico, Caribbean, Tropical Atlantic, and Tropical East Pacific are posted at: <http://weather.noaa.gov/fax/gulf.shtml>
Comments on the schedule or quality of charts
Email: Timothy.Rulon@noaa.gov

BUOY AND C-MAN DATA AVAILABLE VIA E-MAIL (FTPMAIL)

Current buoy and C-MAN data is now available in a very compact form via [http](http://)-, [ftp](ftp://)-, or [e-mail](mailto:) (FTPMAIL).

Via [http](http://):
http://www.ndbc.noaa.gov/data/latest_obs/

Via [ftp](ftp://):
ftp://www.ndbc.noaa.gov/data/latest_obs/

Via e-mail (FTPMAIL)
<http://weather.noaa.gov/pub/fax/buoydata.txt> (instructions)

Send an e-mail to: ftpmail@weather.noaa.gov
Subject Line: Put anything you like
Body: open www.ndbc.noaa.gov
cd data
cd latest_obs
get 42007.txt
get gdil1.txt
quit

WEATHER RULES FOR SAFE BOATING

- Before setting out:
Obtain the latest available weather forecast for the boating area. The NOAA Weather Radio continuous broadcasts (VHF-FM) are the best way to keep informed of expected weather and sea conditions. If you hear on the radio that warnings are in effect, don't venture out on the water unless you are confident your boat can be navigated safely under forecast conditions of wind and sea.
- While afloat:
1. Keep a life jacket on and a weather eye out for: the approach of dark, threatening clouds, which may foretell a squall or thunderstorm; any steady increase in wind or sea; any increase in wind velocity opposite in direction to a strong tidal current. A dangerous rip tide condition may form steep waves capable of broaching a boat.
 2. Check radio weather broadcasts for latest forecasts and warnings.
 3. Heavy static on your AM radio may be an indication of nearby thunderstorm activity.
 4. If a thunderstorm catches you while afloat, you should remember that not only gusty winds but also lightning poses a threat to safety.
 - stay below deck if possible.
 - keep away from metal objects that are not grounded to the boat's protection system.
 - don't touch more than one grounded object at the same time (or you may become a shortcut for electrical surges passing through the protection system).
 - Prepare for rough sea conditions.

INTERNET ADDRESSES

- National Weather Service Current Weather Data
<http://www.nws.noaa.gov>
- National Data Buoy Center
<http://seaboard.ndbc.noaa.gov>
- U.S. Coast Guard Navigation Center
<http://www.navcen.uscg.gov>
- National Weather Service Eastern Region Headquarters
<http://www.erh.noaa.gov>
- National Weather Service Radiofax Charts
<http://www.nws.noaa.gov/om/marine/radiofax.htm>
- National Weather Service Marine Dissemination
<http://www.nws.noaa.gov/om/marine/home.htm>
- NWS Wilmington, NC
<http://www.weather.gov/ilm>
- NWS Charleston, SC
<http://www.erh.noaa.gov/chs>
- NWS Newport/Morehead City, NC
<http://www.weather.gov/mhx>

NATIONAL WEATHER SERVICE RADIOFAX CHARTS 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 is generally under one 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 marine.weather@noaa.gov

OTHER MARINE WEATHER SERVICES CHARTS AVAILABLE

- MSC-1 Eastport, ME to Montauk Point, NY
- MSC-2 Montauk Point, NY to Manasquan, NJ
- MSC-3 Manasquan, NJ to Cape Hatteras, NC
- MSC-4 Cape Hatteras, NC to Savannah, GA
- MSC-5 Savannah, GA to Apalachicola, FL
- MSC-6 Apalachicola, FL to Morgan City, LA
- MSC-7 Morgan City, LA to Brownsville, TX
- MSC-8 Mexican Border to Point Conception, CA
- MSC-9 Point Conception, CA to Point St. George, CA
- MSC-10 Point St. George, CA to Canadian Border
- MSC-11/12 Great Lakes
- MSC-13 Hawaiian Waters
- MSC-14 Puerto Rico and Virgin Islands
- MSC-15 Alaskan Waters
- MSC-16 Guam and the Northern Mariana Islands

These charts are also posted at: <http://www.nws.noaa.gov/om/marine/pub.htm>

Copies of these charts are available from:
FAA Distribution Division, AJW-3550
National Aeronautical Charting Office
Greenbelt, MD 20770-1479
(301) 436-8301
(800) 638-8972 toll free, U.S. only
(301) 436-6829 FAX
Email: 9-AMC-chartsales@faa.gov
<http://chartmaker.nco.noaa.gov/nsd/states.html>
or your local nautical agent:
<http://www.naco.faa.gov/Agents.asp>
Nautical charts for navigation purposes for these coastal areas are available from local marinas, marine supply stores and the above address.