## U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration National Weather Service

# MARINE WEATHER SERVICE CHART MANASQUAN INLET, NJ TO CAPE HATTERAS, NC

NOT TO BE USED FOR NAVIGATION

## NATIONAL WEATHER SERVICE TELEPHONE NUMBERS

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NWS OFFICE	TELEPHONE	OFFICE HOURS/LOCAL TIME
Mt. Holly, NJ http://www.erh.noaa.gov/phil	609-261-6600	7:30a.m - 2:30p.m. M-F otherwise recorded information 24 hours / 7 days
Baltimore, MD/ Washington, DC http://www.erh.noaa.gov/er/h	703-260-0107 wx	24 hours
Wakefield, VA http://www.erh.noaa.gov/er/d	<i>757-</i> 899-4200 akq	24 hours
Morehead City, NC http://www.erh.noaa.gov/er/n	252-223-5737 nhx	24 hours

## Physical Oceanographic Real-Time System (PORTS)

PORTS is an integrated system of water level data, winds, pressure, air/water temperatures, Mean Lower Low Water (MLLW) datum, water density, visibility, waves, and other elements. PORTS was developed in response to stress on national waterways High water can cause floods while low water can cause ships to ground. For more information and access to PORTS for Chesapeake Bay and Delaware River and

http://co-ops.nos.noaa.gov/d\_ports.html

### COASTAL MARINE FORECAST AREAS

Coastal marine forecasts are issued for the following areas

Codside marking forecasts are issued for the following areas.		
Marine Zone ID Number	Marine Zone Name	
Marine Zone ID Number  ANZ451 ANZ452 ANZ453 ANZ454 ANZ455 ANZ430 ANZ431 ANZ530 ANZ531 ANZ531 ANZ532 ANZ533 ANZ534 ANZ535 ANZ536 ANZ536 ANZ537 ANZ630 ANZ631 ANZ630 ANZ631 ANZ630 ANZ631 ANZ630 ANZ631 ANZ630 ANZ631 ANZ630 ANZ631 ANZ636 ANZ656	Marine Zone Name  Coastal waters from Manasquan Inlet, NJ to Little Egg Inlet, NJ Coastal waters from Little Egg Inlet, NJ to Great Egg Inlet, NJ Coastal waters from Great Egg Inlet, NJ to Great Egg Inlet, NJ Coastal waters from Great Egg Inlet, NJ to Cape May, NJ Coastal waters from Cape May, NJ to Cape Henlopen, DE Coastal waters from Cape Menlopen, DE to Fenwick Island, DE Delaware Bay waters north of East Point, NJ to Slaughter Beach, DE Delaware Bay waters south of East Point, NJ to Slaughter Beach, DE Chesapeake Bay from Pooles Island, MD to Sandy Point, MD Chesapeake Bay from Pooles Island, MD to North Beach, MD Chesapeake Bay from North Beach, MD to Drum Point, MD Chesapeake Bay from Drum Point, MD to Smith Point, VA Tidal Potomac from Key Bridge to Indian Head, MD Tidal Potomac from Indian Head, MD to Cobb Island, MD Tidal Potomac from Mindmill Point, VA to Windmill Point, VA Chesapeake Bay from Windmill Point, VA to New Point Comfort, VA Chesapeake Bay from Windmill Point, VA to New Point Comfort, VA Coastal waters from Fenwick Island, DE to Chincoteague, VA Coastal waters from Cape Charles Light, VA coastal waters from Parramore Island, VA to Cape Charles Light, VA Coastal waters from Cape Charles Light, VA to VA-NC border Coastal waters from VA-NC border to Currituck Beach Light, NC	
ANZ633 AMZ150 AMZ152 AMZ154	Currituck Sound Coastal waters from Currituck Beach Light, NC to Oregon Inlet, NC Coastal waters from Oregon Inlet, NC to Cape Hatteras, NC Coastal waters from Cape Hatteras, NC to Ocracoke Inlet, NC	

## WAVE FORECASTS APPEARING IN COASTAL MARINE FORECASTS:

Wave height forecasts are for average wave conditions to be encountered in open coastal waters except if otherwise indicated. Values are for waves produced by wind and do not take into account areas of normally higher or steeper waves found near bars, shoals or restricted entrances into sounds or inlets. Occasionally, waves can combine and peak out at twice the forecast value. Where possible, swell waves will be separatly described

## MARINE WEATHER REPORTING PROGRAM

The National Weather Service (NWS) has established a Nationwide Mariner Report Program - MAREP - to help improve marine warnings and forecasts. Through this cooperative effort, professional mariners make radio reports of sea and wind conditions to NWS marine forecasters. If you would like to participate or learn more about this volunteer program, please call:

NWS Washington, DC 703-260-0107

## EXPLANATION OF MARINE ADVISORIES/WARNINGS

SMALL CRAFT ADVISORY: Issued to alert mariners to sustained winds 20 to 33 knots and/or seas/waves 5 to 7 feet and greater, area dependent. Decision as to degree of hazard is left to the boat operator, based on experience and the size of the boat.

GALE WARNING: A warning of sustained winds or frequent gusts in the range of 34 to 47 knots inclusive, either predicted or occuring, and not directly associated

STORM WARNING: A warning of sustained winds or frequent gusts in the range of  $48\ to\ 63\ knots,$  either predicted or occuring, and not directly associated with a

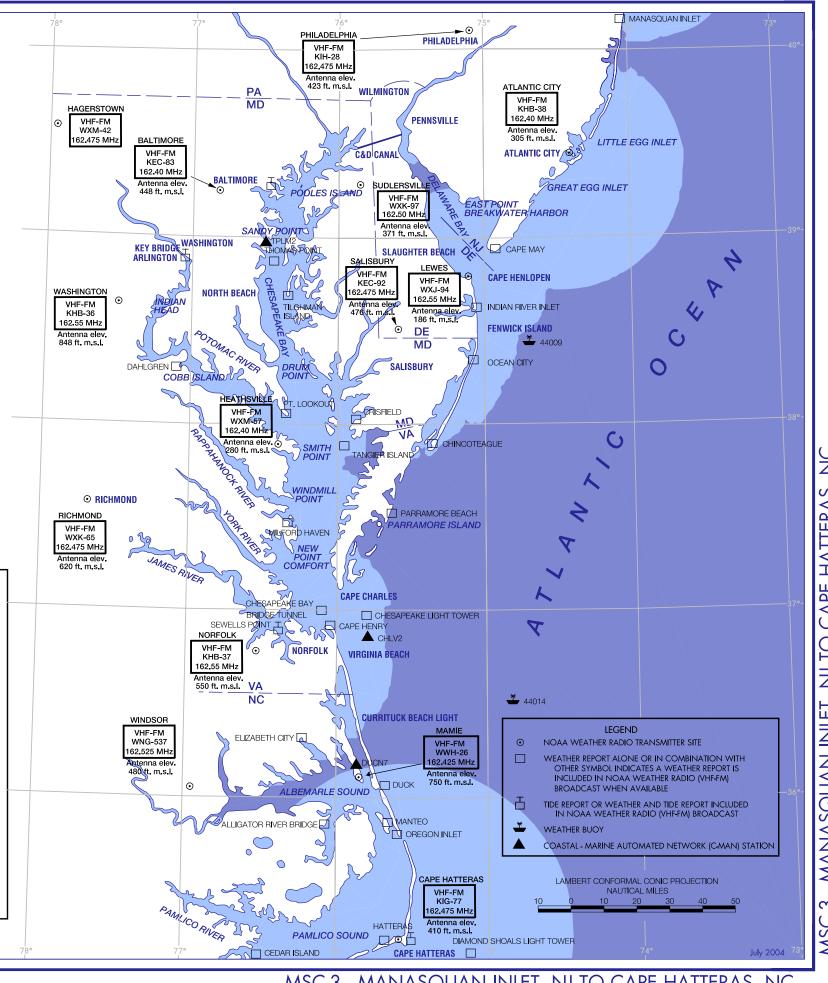
HURRICANE FORCE WIND WARNING: A warning of sustained winds or frequent gusts 64 knots or greater, either predicted or occuring, NOT associated with a tropical

SPECIAL MARINE WARNING: Issued for severe local storms for winds 34 knots or greater, and/or hail three-quarters inch in diameter or larger, and/or waterspouts.

TROPICAL STORM WARNING: Issued for a tropical cyclone in which the maximum sustained surface wind ranges from 34 to 63 knots inclusive

HURRICANE WARNING: Issued for a tropical cyclone in which the maximum sustained surface wind is 64 knots or areater

NOTE: A "TROPICAL STORM WATCH" or "HURRICANE WATCH" is issued whenever a tropical storm or hurricane becomes a threat to a coastal area. The "WATCH" is not a warning, but indicates that the tropical cyclone is near enough that persons in the area covered by the "WATCH" should listen to their radios for subsequent advisories and be ready to take precautionary action in case tropical storm or hurricane warnings



	NOAA WEA	THER RADIO BROAD	CASIS
CITY	<u>STATION</u>	FREQUENCY	BROADCAST TIMES
Lewes, DE	WXJ-94 KIH-28	162.550 MHz 162.475 MHz	Continuously, 24 hrs a day
Philadelphia, PA Atlantic City, NJ	KHB-38	162.473 MHz 162.400 MHz	Continuously, 24 hrs a day Continuously, 24 hrs a day
Baltimore, MD	KEC-83	162.400 MHz	Continuously, 24 hrs a day
Washington, DC	KHB-36	162.550 MHz	Continuously, 24 hrs a day
Hagerstown, MD	WXM-42	162.475 MHz	Continuously, 24 hrs a day
Salisbury, MD	KEC-92	162.475 MHz	Continuously, 24 hrs a day
Sudlersville, MD	WXK-97	162.500 MHz	Continuously, 24 hrs a day
Norfolk, VA	KHB-37	162.550 MHz	Continuously, 24 hrs a day
Richmond, VA	WXK-65	162.475 MHz	Continuously, 24 hrs a day
Heathsvi <b>ll</b> e, VA	WXM-57	162.400 MHz	Continuously, 24 hrs a day
Windsor, NC	WNG-537	162.525 MHz	Continuously, 24 hrs a day
Mamie, NC	WWH-26	162.425 MHz	Continuously, 24 hrs a day
Cape Hatteras, NC	KIG-77	162.475 MHz	Continuously, 24 hrs a day
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NOAA WEATHER RADIO RROADCASTS

These VHF-FM radio stations, locations shown on the map, are operated by the National Weather Service. Broadcast tapes 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 with outlook for the third day.
- 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.

CARRIER

STATION	FREQUENCY (kHz)	BROADCAST TIMES/UT
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, Atlantic City	Ch. 22A 2670 kHz	1103, 2303 1103, 2203
Activities, Baltimore	Ch. 22A 2670 kHz	warnings only
Chesapeake (NMN), CAMSLANT	518 NAVTEX "N"	0130, 0530, 0930 1330, 1 <i>7</i> 30, 2130

#### HIGH SEAS RADIOTELEPHONE WEATHER BROADCASTS FOR THE ATLANTIC

CITY	STATION	CARRIER FREQ. (kHz)	BROADCAST TIMES/UTC
CHESAPEAKE,	NMN	4426.0	0330, 0500, 0930
VA (USCG)		6501.0	0330, 0500, 0930, 1130
			1600, 2200, 2330
		8764.0	0330, 0500, 0930, 1130
			1600, 1730, 2200, 2330
		13089.0	1130, 1600, 1 <i>7</i> 30, 2200
			2330
		17314.0	1730

#### HIGH SEAS RADIOTELEX (SITOR) WEATHER BROADCASTS FOR THE ATLANTIC

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

# THE ATLANTIC RADIOFACSIMILE BROADCAST SCHEDULE IS POSTED AT: http://www.opc.ncep.noaa.gov

Then click Atlantic FAX

Comments on the schedule or quality of charts

E-Mail: Timothy.Rulon@noaa.gov

#### 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 Kingdon 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

### NOAA WEATHER RADIO (NWR), Specific Area Message Encoder (SAME), and NWR coverage

NOAA Weather Radio broadcasts on 162.40, 162.425, 162.475, 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 alert device that can be turned on by means of a tone signal controlled by the National Weather Service. This signal is transmitted for 13 seconds preceeding an announcement of a severe weather warning.

In addition, the Federal Communications Comission (FCC) has approved the special SAME code to delineate marine areas. Mariners with NWR receivers equipped with SAME should check out: http://www.nws.noac.gov/om/marine.wxradio.htm for information on how to program your receiver.

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 areas 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 WWV/WWVH STORM INFORMATION BROADCASTS

HIGH SEAS STORM INFORMATION for the North Atlantic and North Pacific is provided to 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 (FT COLLINS, CO)
FREQUENCIES: 2.5, 5, 10, 15, 20 MHz

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 Warning
9 minutes past the hour	Atlantic High Seas Warning

### 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:, ftp, or e-mail (FTPMAIL).

Via l

http://www.ndbc.noaa.gov/data/latest\_obs/

Via 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: Subject Line: Body: ftpmail@weather.noaa.gov Put anything you like open www.ndbc.noaa.gov

cd data cd latest\_obs get 42007.txt get gdil 1.txt quit

#### INTERNET ADDRESSES

National Weather Service Home Page http://www.nws.noaa.gov

National Weather Service Marine Home Page 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 Eastern Region Headquarters http://www.erh.noaa.gov/er/hq/index.html

National Weather Service Marine Products

http://www.nws.noaa.gov/om/marine/forecast.htm

National Weather Service Radiofax Products http://weather.noaa.gov/fax/marine.shtml

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

National Weather Service radiofax charts and text forecasts are available via E-mail. The FTPMAIL servier 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 under 1 hour, however, performance may vary widely and receipt cannot be guarenteed. 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 127.

# 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:

- Keep 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.
- $2. \ \ \, \text{Check radio weather broadcasts for latest forecasts and warnings}.$
- Heavy static on your AM radio may be an indication of nearby thunderstorm activity.
- 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).
- put on a life jacket and prepare for rough sea conditions

## OTHER MARINE WEATHER SERVICES CHARTS AVAILABLE

Eastport, ME to Montauk Point, NY Montauk Point, NY to Manasquan, NJ MSC-3 Manasquan, NJ to Cape Hatteras, NC MSC-4 Cape Hatteras, NC to Savannah, GA Savannah, GA to Apalachicola, FL MSC-5 Apalachicola, FL to Morgan City, LA Morgan City, LA to Brownsville, TX MSC-8 Mexican Border to Point Conception, CA Point Conception, CA to Point St. George, CA MSC-10 Point St. George, CA to Canadian Border MSC-11/12 Great Lakes MSC-14 Puerto Rico and Virgin Islands

Alaskan Waters 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/National Aeronautical Charting Office
Distribution Division, AVN-530
6303 by 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-ANC-chartsales@faa.gov
http://chartmaker.ncd.noaa.gov
or your local chart agent
http://chartmaker.ncd.noaa.gov/nsd/states.html

Nautical charts for navigation purposes for these coastal areas are available from local marinas, marine supply stores, and the above address.

July 2004

MSC-3—MANASQUAN INLET,

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CAPE

**HATTERAS** 

MSC-15

MSC-16