Radio-Fax Frequencies

OPC Products:

Atlantic:
4235, 6340.5, 9110, 12750 kHz
Schedule transmitted at: 0243/1405Z

Pacific:
4346, 8682, 12786, 17151.2, 22527, 12750 kHz
Schedule transmitted at: 1124/2324Z

Gulf of Alaska:
2054, 4298, 8459, 12412.5 kHz
Schedule transmitted at: 1727Z

Other NWS Marine Forecast Office Products:

Gulf of Mexico:
4317.9, 8503.9, 12789.9, 17146.4 kHz
Schedule transmitted at: 2025Z

Hawaii:
9982.5, 11090, 16135 kHz
Schedule transmitted at: 1300/0100Z

NOAA Ship *Miller Freeman* in heavy seas.

Over 150 forecast products are issued daily at OPC to ensure the safety of life and property at sea. Although the majority of OPC's customers are trans-oceanic commercial vessels, fishing vessels and recreational boaters rely heavily on OPC's forecasts for their daily operations and decision making.

CONTACT INFORMATION:

Joseph Sienkiewicz Acting Director, Ocean Prediction Center
joseph.sienkiewicz@noaa.gov

National Oceanic and Atmospheric Administration
NWS/National Centers for Environmental Prediction
Ocean Prediction Center, NCWCP, W/NP41
5830 University Research Court
College Park, MD 20740-3818

(301) 683-1495
www.opc.ncep.noaa.gov

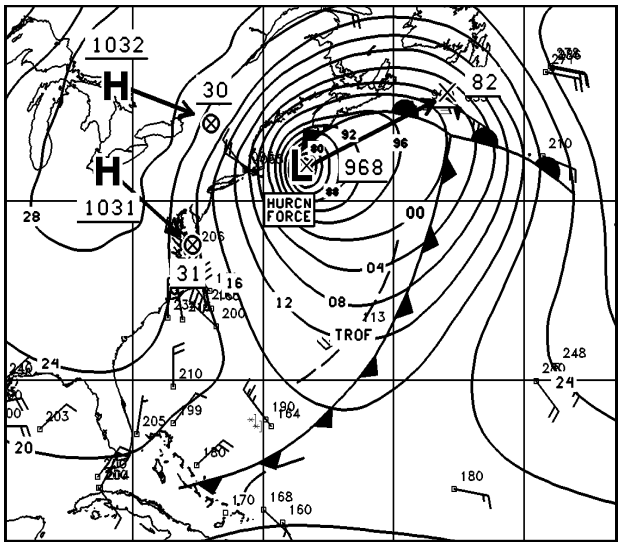
facebook.com/NWSOPC

youtube.com/NWSOPC

@nwsopc

Ocean Prediction Center

AN INTRODUCTION TO OPC PRODUCTS



February 09, 2013, a hurricane force low pressure churns across the offshore waters

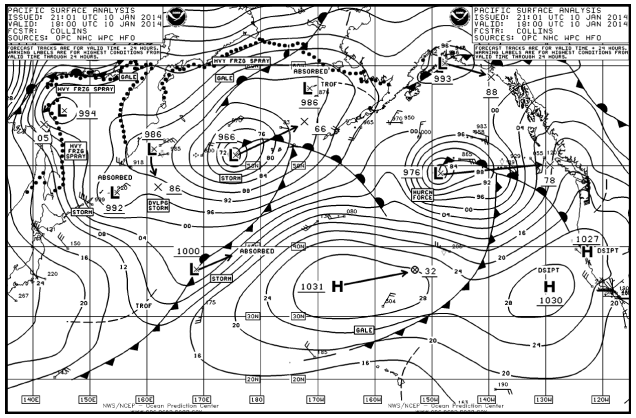
www.opc.ncep.noaa.gov

www.weather.gov

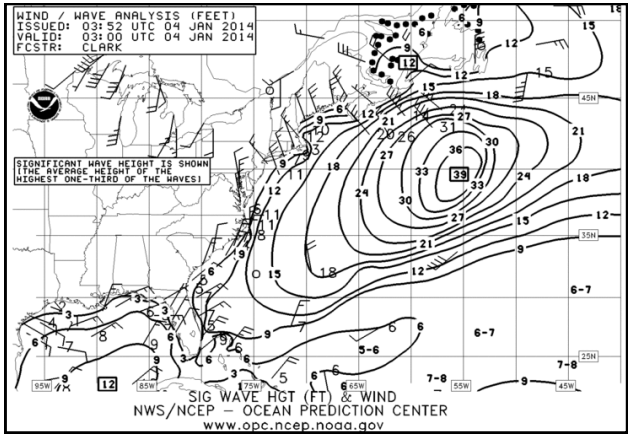
Products and Services

Atlantic and Pacific Graphical Products

- Surface analysis and forecasts to 120 hours
- Significant wave height analysis every 3 hours and forecasts to 96 hours
- Upper air (500mb) analysis and forecasts to 96 hours
- Wave period forecasts to 96 hours



Full Basin North Pacific Surface Analysis



West Atlantic Significant Wave Height Analysis

OPC's offshore zones are shown in yellow, high seas zones in green.

Text Products

OFFSHORE ZONES

- Extend to 250 nautical miles from coast
- NAVTEX forecasts issued for coastal and offshore waters extend 200 nm from the coast
- Issued 4 times daily, forecasts to 5 days
- Includes warnings, winds, waves, visibility, and precipitation

```
379
FZNT21 KWBC 151415
OFFNT1

OFFSHORE WATERS FORECAST
NWS OCEAN PREDICTION CENTER WASHINGTON DC
915 AM EST WED JAN 15 2014

OFFSHORE WATERS FORECAST FOR THE NEW ENGLAND CONTINENTAL SHELF
AND SLOPE WATERS FROM 25 NM OFFSHORE TO THE HAGUE LINE...EXCEPT
TO 1000 FM S OF NEW ENGLAND.

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE
MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

ANZ080-160215-
915 AM EST WED JAN 15 2014

.SYNOPSIS FOR NEW ENGLAND WATERS...A WEAK HIGH PRES RIDGE WILL
CROSS THE WATERS TODAY. WEAK LOW PRES WILL MOVE NE OVER GEORGES
BANK LATE TONIGHT INTO EARLY THU. A SECOND LOW WILL PASS JUST SE
OF THE WATERS THU NIGHT AND FRI. A THIRD AREA OF LOW PRES IS
EXPECTED TO MOVE E OVER THE REGION SAT. A COLD FRONT WILL MOVE E
ACROSS THE WATERS SUN.

$$

ANZ081-160215-
GULF OF MAINE TO THE HAGUE LINE-
915 AM EST WED JAN 15 2014

...GALE FORCE WINDS POSSIBLE SUN...

.THIS AFTERNOON...W TO SW WINDS 5 KT...BECOMING S 5 TO 15 KT.
SEAS 4 TO 8 FT.
.TONIGHT...SW WINDS LESS THAN 10 KT. SEAS 4 TO 7 FT.
.THU...N TO NE WINDS 5 TO 15 KT. SEAS 3 TO 5 FT.
.THU NIGHT...N TO NW WINDS 5 TO 10 KT...BECOMING W TO SW AFTER
MIDNIGHT. SEAS 3 TO 4 FT.
```

HIGH SEAS (METAREAS XII & IV)

- Atlantic: north of 31N, west of 35W
- Pacific: north of 30N, east of 160E
- Issued 4 times daily, forecasts to 48 hours
- Includes warnings, winds, waves, visibility

```
707
FZPN01 KWBC 151620
HSFEP1

HIGH SEAS FORECAST
NWS OCEAN PREDICTION CENTER WASHINGTON DC
1630 UTC TUE OCT 15 2013

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE
HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY
BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

PACIFIC N OF 30N AND S OF 67N E OF A LINE FROM BERING STRAIT
TO 50N 160E

SYNOPSIS VALID 1200 UTC OCT 15.
24 HOUR FORECAST VALID 1200 UTC OCT 16.
48 HOUR FORECAST VALID 1200 UTC OCT 17.

.WARNINGS.

...STORM WARNING...
.FROM 30N TO 34N BETWEEN 160E AND 174E E TO NE WINDS TO 25 KT.
SEAS 9 TO 12 FT.
.24 HOUR FORECAST W OF A LINE FROM 30N164E TO 47N170E WINDS 25
TO 25 KT. SEAS 9 TO 14 FT.
.30 HOUR FORECAST POST-TROPICAL WIPHA W OF AREA NEAR 47N152W 963
MB. WITHIN 420 NM E QUADRANT WINDS 35 TO 50 KT. SEAS 12 TO 20 FT.
.48 HOUR FORECAST POST-TROPICAL WIPHA 52N165E 965 MB. OVER
FORECAST WATERS WITHIN 420 S SEMICIRCLE AND 360 NM NE QUADRANT
WINDS 45 TO 60 KT. SEAS 24 TO 42 FT. ELSEWHERE FROM 37N TO 47N
BETWEEN 160E AND 176W WINDS 30 TO 45 KT. SEAS 11 TO 24 FT.

...GALE WARNING...
.LOW 57N176W 982 MB MOVING N 15 KT. OVER FORECAST WATERS N OF
48N BETWEEN 177W AND 172E WINDS 35 TO 45 KT. SEAS 18 TO 24 FT.
```

Warning Definitions

SUSTAINED SURFACE WIND SPEEDS

GALE: 34-47 knots

STORM: 48-63 knots

HURRICANE FORCE: ≥ 64 knots

HEAVY FREEZING SPRAY: Accumulation of vessel icing in excess of 2 cm / hour

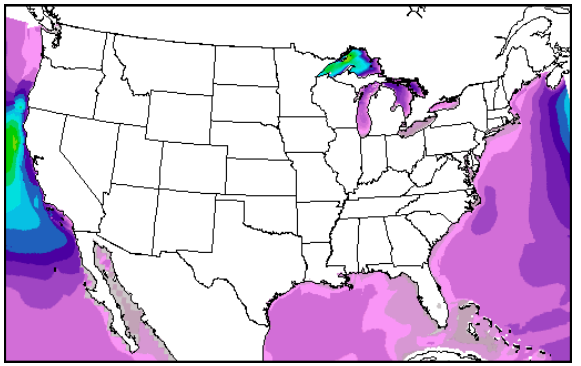
ASHFALL ADVISORY: Expected accumulation or thickness of ashfall ≥ 0.8 mm

Gridded Products

OPC's gridded marine forecasts are now available in the National Digital Forecast Database (NDFD). The gridded marine parameters include:

- Surface wind speed and direction
- Surface wind gusts
- Significant wave height
- Marine hazards

www.opc.ncep.noaa.gov/graphical.html



Gridded wind forecast available for OPC's offshore zones.