

NTSB Marine Weather Worksheet

NTSB Case number: DCA21FM007

Key code: 102326

Date: Nov. 23, 2020

Julian date:

Time: 0130 EST

UTC: (+5) 0630Z

Location: 20nm NE Provincetown, Massachusetts

Coordinates:

Vessel: Emmy Rose

Type: 84ft commercial fishing vessel

Fatalities: 4

Day/Nigh

IIC: Brian Young

Request: Preliminary Data/Specialist Factual-Analysis/Group Factual-Analysis

Synoptic Conditions: OPC/WPC Surface Analysis, Wind/Wave Analysis - Attached

Observation site: Provincetown (KPVC), MA Automated Weather Observation System (AWOS)

Conditions: 0156 EST Temp: 51 ° F Dewpoint: 47° F Relative Humidity: 92 %

Pressure: 30.15 inHg Sea-level pressure 1021-mb

Cloud cover: Overcast 1,000 ft agl

Visibility: 10 sm Precipitation/Obscurations: None within 24-hr prior

Wind direction/speed: 120° 11 knots

Data from: Cape Code Buoy #44018, 9nm N of Provincetown, MA

Sea Conditions: 0130 EST

Air temp: 51° F Dewpoint (Td): 49° F Water temp: 50.5° F

Wind: ESE 17 knots gusting to 21 knots

Sea State: 5.6 ft observed

Sea Swell: 5-6 Period: 6 sec Swell Direction: E (mean wave direction)

Ice obstructions present: Yes/No

Astronomical Conditions for Provincetown, MA, obtained from United States Naval Observatory MICA software for the period.

Nautical sunset: 1612 EST 22 November

Civil sunset: 1614 EST

End civil twilight: 1644 EST

Nautical evening twilight: 1718 EST

Sinking **0130 EST 23 November**

Nautical morning twilight: 0536 EST

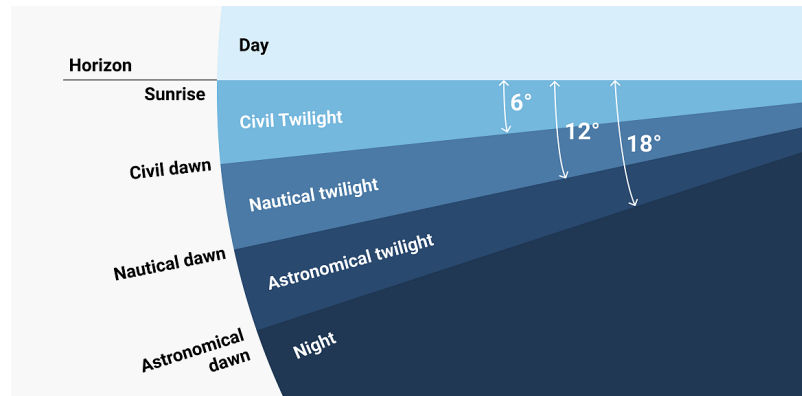
Begin civil twilight: 0613 EST

Nautical sunrise: 0641 EST

Civil sunrise: 0643 EST

Sun culmination: 1128 EST

At 0130 EST the Moon was 18° below the horizon at an azimuth of 270°, and the phase was a first quarter with 60% of the Moon's visible disk illuminated when visible.



Marine Forecasts, Warnings, and Advisories:

FZUS51 KBOX 230017
 CWFBOX

*Coastal Waters Forecast for Massachusetts and Rhode Island
 National Weather Service Boston/Norton MA
 716 PM EST Sun Nov 22 2020*

...GALE WARNING IN EFFECT FROM MONDAY AFTERNOON THROUGH TUESDAY MORNING...

.TONIGHT...SE winds 15 to 20 kt with gusts up to 25 kt. Seas 5 to 8 ft. Patchy fog after midnight. A chance of showers after midnight.

.MON...S winds around 15 kt with gusts up to 25 kt, becoming W with gusts up to 35 kt in the afternoon. Seas 5 to 8 ft. Patchy fog. Showers likely. Vsby 1 NM or less.

.MON NIGHT...NW winds 20 to 25 kt with gusts up to 40 kt. Seas 6 to 9 ft.