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PNSWSH

Service Change Notice 23-29
National Weather Service Headquarters Silver Spring MD
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To: Subscribers:
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From: Greg Schoor, Chief
 Marine, Tropical and Tsunami Services Branch

Subject: Operational Implementation of Wind Speed Probability Graphics for Tropical Cyclones in the South Pacific and Western North Pacific Basins based on Joint Typhoon Warning Center Forecasts on or around May 15, 2023

On or about May 15, 2023, the National Weather Service (NWS) will operationally implement Tropical Cyclone Wind Speed Probability Graphics based on forecasts from the Joint Typhoon Warning Center (JTWC) for tropical cyclones in the South Pacific and western North Pacific basins. These graphics will be generated by the NWS Central Pacific Hurricane Center (CPHC).

Tropical cyclone surface wind speed probability graphics provide probabilities of sustained (1-minute average) surface (10-meter elevation) wind speeds of at least 34 knots (kt.; 39 miles per hour (mph), tropical storm force), 50 kt. (58 mph), and 64 kt. (74 mph, hurricane/typhoon force) at individual locations in the South Pacific and western North Pacific basins. The location specific probabilities are based on errors during recent years in the official track and intensity forecasts issued by the JTWC. Variability in tropical cyclone size (wind radii) is also incorporated into the probabilities.

Tropical Cyclone Wind Speed Probability Graphics are operationally provided for the eastern and central North Pacific basins and the Atlantic basin. The graphics for the South Pacific and western North Pacific will be generated in the same fashion as these graphics. More information on the NWS Tropical Cyclone Wind Speed Probability Graphics can be found in the following Product Description Document:

https://nws.weather.gov/products/PDD/PDD_TC_Surface_Wind_Speed_Probabilities_Graphical_T20.pdf

CPHC will issue a storm-centered graphical wind speed probability product for any tropical cyclone system JTWC is issuing warnings on which have at least one forecast point within 10S-20S and 164.5W-178.5W for the South Pacific and within 0-25N and 180-130E for the western North Pacific. The graphical wind speed probabilities are available within 15 minutes of when the tropical cyclone advisory is issued by JTWC. Examples of these Tropical Cyclone Wind Speed Probability Graphics for the South Pacific and

western North Pacific basins can be found at:

South Pacific: <https://www.weather.gov/ppg/spacTropicalExample>.

Western North Pacific: <https://www.weather.gov/gum/wpacTropicalExample>.

Users will need to select either the 34-kt, 50-kt, or 64-kt links listed under "Wind Speed Probabilities" on these pages to view the sample products.

When there are active tropical cyclones in the South Pacific or western North Pacific basin within boundaries listed above, the Tropical Cyclone Wind Speed Probability Graphics can be found on the following webpages:

South Pacific - <https://www.weather.gov/ppg/spacTropical>.

Western North Pacific - <https://www.weather.gov/gum/wpacTropical>.

Wind Speed Probability graphics will also be available in KMZ format on the webpages listed above.

Note: The products will not have a backup production site in a case where conditions or events exist that prevent the product from being issued from the original production source at JTWC.

If you have questions regarding this notice, please contact:

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National Service Change Notices are online at:

<https://www.weather.gov/notification>

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