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Public Information Statement 21-20 Updated
National Weather Service Headquarters Silver Spring MD
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From: Kate Abshire, Acting Chief
 Marine, Tropical and Tsunami Services Branch

Subject: Updated: Soliciting Comments through May 31, 2023 on
Experimental Wind Speed Probability Graphics Produced by the Central
Pacific Hurricane Center for Tropical Cyclones in the South Pacific and
Western North Pacific Basins Based on Forecasts Issued by the Joint
Typhoon Warning Center

Updated to extend the comment period through May 31, 2023, promote the
new local weather office websites for the experimental Wind Speed
Probability Graphics, and to define the product generation boundaries.

The National Weather Service (NWS) has extended the comment period
through May 31, 2023 for the experimental 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).

Changes for this comment period include: (1) The products have been
updated to Samoan Standard Time (SST) for the South Pacific and Chamorro
Standard Time (ChST) for the western North Pacific. (2) The area for
graphic production has also been updated to reflect the areas of
responsibility for both Weather Service Office (WSO) Pago Pago, American
Samoa (WSO PPG) and Weather Forecast Office (WFO) Tiyan, Guam (WFO GUM).

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 experimental graphics for the South Pacific and
western North Pacific will be generated in the same fashion as the

operational 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_TCSurfaceWindSpeedProbGraphical2021.pdf

CPHC will experimentally 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 experimental 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 experimentally in KMZ format on the webpages listed above.

Note: The experimental 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.

Users are encouraged to provide feedback on this experimental product through May 31, 2023 via the following survey:

https://www.surveymonkey.com/r/TC_SurfaceWindSpeedProb_SouthPacific_WesternNorthPacific

If you have questions regarding this notice, please contact:

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National Public Information Statements are online at:

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

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