

PRODUCT DESCRIPTION DOCUMENT

Experimental Tropical Cyclone Wind Field Graphic

Approved signed by David B. Caldwell Date 04/09/08

David B. Caldwell

**Director, Office of Climate,
Water and Weather Services**

Experimental Tropical Cyclone Wind Field Graphic

Part I - Mission Connection

- a. Product Description - This experimental graphic illustrates the areas potentially being affected by tropical cyclone sustained winds of varying force. Tropical storm force winds are shown in orange and hurricane force winds are shown in red.

In addition to the wind field, the graphic shows an approximate representation of coastal areas under a hurricane warning (red), hurricane watch (pink), tropical storm warning (blue) and tropical storm watch (purple). The white dot indicates the current position of the center of the tropical cyclone, and the dashed black line shows the history of the center of the tropical cyclone.

- b. Purpose – The NHC will provide this product to better convey the size of a tropical storm or hurricane in a graphic format.
- c. Audience – All users of tropical cyclone information.
- d. Presentation Format – Graphical on internet
- e. Feedback Method

The National Hurricane Center and NWS are requesting your comments and feedback June 1 to November 30, 2008, about this new, experimental Tropical Cyclone Surface Wind Field. Please feel free to use the links below for submitting comments.

Via Web Survey: <http://www.weather.gov/survey/nws-survey.php?code=twfg>

Via Email: nhcwebmaster@noaa.gov

Technical questions about this wind field product may be addressed to:

National Weather Service
Attn: Michelle Mainelli
Tropical Prediction Center
11691 S.W. 17th Street
Miami, FL 33165-2149

or e-mail: michelle.m.mainelle@noaa.gov

Policy questions may be addressed to:

National Weather Service
Attn: Scott Kiser
W/OS21
1325 East West Highway
Silver Spring, MD 20910

or e-mail to: scott.kiser@noaa.gov

Part II - Technical Description

- a. Format & Science Basis - The display is based on the wind radii contained in the latest Forecast/Advisory (indicated at the top of the figure). Forecast/Advisory wind radii represent the maximum possible extent of a given wind speed within particular quadrants around the tropical cyclone. As a result, not all locations falling within the orange or red shaded areas will be experiencing sustained tropical storm or hurricane force winds, respectively.
- b. Product Availability - Graphics for Atlantic tropical cyclones are normally issued every six hours at 5:00 AM EDT, 11:00 AM EDT, 5:00 PM EDT, and 11:00 PM EDT (or 4:00 AM EST, 10:00 AM EST, 4:00 PM EST, and 10:00 PM EST).

Graphics for Eastern Pacific tropical cyclones are normally issued every six hours at 2:00 AM PDT, 8:00 AM PDT, 2:00 PM PDT, and 8:00 PM PDT (or 1:00 AM PST, 7:00 AM PST, 1:00 PM PST, and 7:00 PM PST).

Special graphics may be issued at any time due to significant changes in warnings or in the cyclone.

An example can be found at:

<http://www.nhc.noaa.gov/aboutnhcgraphics.shtml#INITIALWIND>

During times of tropical cyclone activity the graphic can be found at:

<http://www.nhc.noaa.gov>

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- c. Additional Information
A full description of other NWS Tropical Cyclone Weather Services Program Products is provided in NWSI 10-601, which is available on the Internet at:
<http://www.nws.noaa.gov/directives/010/010.htm>