

***NATIONAL WEATHER SERVICE
PRODUCT/SERVICE DESCRIPTION DOCUMENT (PDD)
TYPE: Official Product
DATE: April 30, 2003***

TROPICAL STREAMLINE SURFACE ANALYSIS

Part 1 - Mission Connection

1. Product/Service Description:

The Tropical Streamline Surface Analysis (TSSA) is a graphic product providing a representation of significant meteorological surface features. The National Weather Services Pacific Regions Weather Forecast Office (WFO) Honolulu prepares the TSSA for their area of responsibility (AOR). The AORs for WFO Honolulu vary and depend upon the program (tropical cyclone, aviation, marine, public, and satellite). For the TSSA graphic, WFO Honolulu's AOR is the area from 110W - 130E longitude between 30N and 30S latitude.

2. Purpose/Intended Use:

The TSSA is a routinely prepared product. WFO Honolulu prepares the TSSA based on interpretation of satellite imagery, various model fields, ship and other observational data four times a day at 0000, 0600, 1200, 1800 Universal Time Coordinated (UTC). The TSSA provides a graphic depiction of significant meteorological surface features over much of the Pacific. This includes tropical systems, highs and lows (with central pressures), gale and storm areas, streamlines, fronts, troughs, ridges, shear lines, the Inter-tropical Convergence Zone, other convergence areas, and wind barbs representative of the undisturbed surface flow. WFO Honolulu prepares the TSSA for the protection of life and property and enhancing the nation's economy.

3. Audience:

The target audience for the product includes: ocean-going vessels, fishing fleets, maritime organizations, general marine users, military and government agencies, and the general public.

4. Presentation Format:

WFO Honolulu provides the product in a graphic format and prepares it in a consistent manner.

5. Feedback Method:

The NWS is constantly seeking to improve its products based on user feedback. Customers can provide continuous feedback through e-mail links to the local program managers via the offices' Internet web sites and via e-mail links to the program managers in the Marine and Coastal Weather Services Branch, National Weather Service (NWS) Headquarters. WFO Honolulu and NWS Headquarters also obtain feedback through meetings with interested mariners, Coast Guard, Navy, and through Customer Surveys.

Technical and policy questions, and comments for the Tropical Streamline Surface Analysis may be addressed to:

National Weather Service
Attn: Brian LaMarre W/OS21
Marine Program Manager
1325 East-West Highway, Room 13118
Silver Spring, MD 20910-3285

or e-mail questions and comments to: Brian.Lamarre@noaa.gov.

Part 2 - Technical

1. **Format and Science Basis:**

WFO Honolulu prepares and disseminates the TSSA in a graphic format. WFO Honolulu prepares the TSSA based on interpretation of satellite imagery, various model fields, ship and other observational data to provide a graphic depiction of significant meteorological surface features over much of the Pacific. WFO Honolulu prepares the product in a standard and concise format with all required elements.

2. **Availability:**

WFO Honolulu prepares the TSSA based on interpretation of satellite imagery, various model fields, ship and other observational data four times a day, 0000 0600, 1200, 1800 UTC. The TSSA provides a graphical depiction of significant meteorological surface features over much of the Pacific. WFO Honolulu disseminates this product via marine radio facsimile, the internet, family of services, and NOAA port. Additional information on Marine and Coastal product dissemination is available at:

<http://weather.gov/om/marine/home.htm>.

The following WWW Internet site is one location to access the TSSA product:

<http://www.prh.noaa.gov/pr/hnl/>.

3. **Additional Information:**

A description of Tropical Streamline Surface Analysis policy, area of responsibility, abbreviations and definitions, standards and guidelines, and means of product dissemination is located in NWS Instruction 10-304 which is available via the Internet at:

http://www.nws.noaa.gov/directives/010/operation_services.htm.