## Graphical Forecast Table Product Description Document 6/05/03

## **Part I - Mission Connection**

- a. <u>Description of Product</u> The National Weather Service's (NWS) Graphical Forecast Table provides a graphical representation of digital/tabular forecasts of maximum temperature, minimum temperature, probability of precipitation, 3- hourly temperatures, dewpoint temperatures, relative humidity, sky condition, wind direction and speed, obstruction to visibility, and precipitation type.
- b. <u>Purpose</u> The Graphical Forecast Table is derived from forecast weather parameters found in the Area Forecast Matrix (AFM). The AFM is primarily intended for use by large volume users of NWS forecast information and for automated retrieval of forecast parameters. This format may be difficult for much of the general public to read and interpret. Therefore, in an effort to support NWS Strategic Plan and its goal to provide graphical weather products, the AFM has been reformatted into a graphical product that is easier to interpret and understand.
- c. <u>Intended Audience</u>-The target audience for this experimental graphical product is the general public. The product is available to anyone who has an Internet connection. Since this product is in the public domain, it can be acquired by intermediaries, repackaged, and re-transmitted in accord with standard NWS product use policies. Using advances in computer capabilities, as well as scientific advances to create customer-based products and services, the National Weather Service, through the Graphical Forecast Table, strives toward the following goals:
  - provide customers with forecast information that is easy to interpret and understand
  - provide timely and readily accessible forecast information
  - improve and standardize the graphical presentation format of public weather forecast information
- d. <u>Presentation Method</u> The Graphical Forecast Table is a web based graphical product displayed as a series of tables composed of iconic images and alphanumeric weather forecast data.
- e. <u>Feedback Mechanism</u> We are always seeking to improve our products based on user feedback. An OMB approved form may be used to submit comments about this new product. It is available on or within the web site containing the experimental product.

Technical comments for the Graphical Forecast Table product developer may be

addressed to: National Weather Service

Attn: Tom Kriehn 533 Roberts Rd.

Newport, NC 28570 or e-mail comments to: thomas.kriehn@noaa.gov

## **Part II - Technical Description**

a. <u>Format & Science Basis</u> - The Graphical Forecast Table is composed of forecast information in digital form and iconic images displaying forecast parameters for maximum temperature, minimum temperature, probability of precipitation, 3-hourly temperatures, dewpoint temperatures, relative humidity, sky condition, wind direction and speed, obstruction to visibility, and precipitation type. A sample portion of this product is shown in Figure 1.

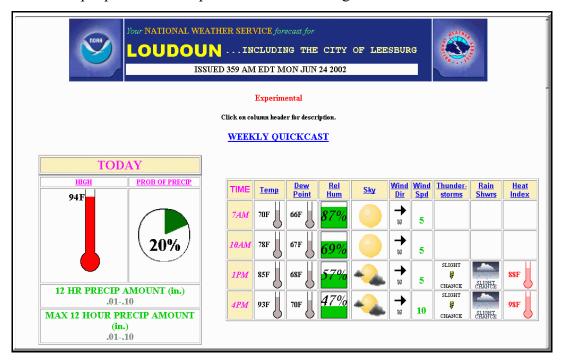


Figure 1. Graphical Forecast Table.

Within the product, links above the parameter columns provide descriptions of the various weather parameters. A link is also available for a "Weekly Quickcast"; a seven day summarization of the forecast in a similar format. Internet links to a realtime Graphical Forecast Table and associated Weekly Quickcast are provided below.

Graphical Forecast Table Realtime Product Example

Weekly Quickcast Realtime Product Example

1 12345678901234	2 67890123	3 3456789012	4 34567890123	5 3456789012345	6 7 6789012345678901	8 .234567890	
Product Format FOaaii cccc ddhhmm AFMxxx					Description of Entry (WMO Heading) (AWIPS ID)		
NATIONAL WEATHER SERVICE city state					(MND - NWS Product Name) (Issuing Office) (Issuance Time/Date)		
county st-county st					(UGC Type: <u>Zone</u> )-(Exp. Time) (Included County/State) (Issuance Time/Date)		
HIGH WIND WATCH TUE AFTERNOON (Headline if applicable)							
DATE UTC 3HRLY EST 3HRLY	MON ( 08 11 14 03 06 09	02/12/01 4 17 20 23 9 12 15 18	02 05 08 1 21 00 03 0	TUE 02/13/01 L1 14 17 20 2 D6 09 12 15 1	WED 0 3 02 05 08 11 14 8 21 00 03 06 09	02/14/01 1 17 20 23 0 12 15 18	
RH WIND DIR WIND SPD WIND GUST CLOUDS POP 12HR QPF 12HR MAX QPF SNOW 12HR RAIN OBVIS WIND CHILL 6HR MIN CHILL HIGH WIND	47 40 NW NV 5 8 OV OV	0 36 38 45 W W W SW 8 8 8 8 V OV OV BK 10 0 00-00	57 72 82 8 SW W W 8 5 2 1 BK SC BK E	32 76 70 73 7 S S S S S S L0 14 28 36 2 22 25 42 56 5 BK BK BK BK BK O' 0 0 0 00-0 S 0	2 34 20 V OV OV OV OV OV OV 0 70 0 .2549 0 .2549 0 C C L L L I F F F F	5 96 79 73 E SE SE SE 2 2 5 8 7 BK BK BK 50 .1024 .1024	
	05 11	17 23 05	11 17 23	05 11 17 2	17/01 SUN 02/18 3 05 11 17 23 8 00 06 12 18	05	
MAX/MIN TEMP DEWPT PWIND DIR WIND CHAR AVG CLOUDS POP 12HR RAIN RAIN SHWRS		44 43 40 36 38 37 S LT		29 24 29 2 26 22 21 19 N 1 BZ W	N SE SE Y LT LT L FW SC		

Figure 2. Area Forecast Matrices Product Prototype.

b. Product Availability - The AFM is routinely issued within 30 minutes of the two mandatory forecast packages produced between 1:30 and 5:30 am/pm local time. However, updates may be issued at any time as conditions warrant. When the AFM is issued, a local application program runs automatically which reformats the AFM into hypertext markup language (HTML). The product is then transmitted automatically to the Internet server hosting the local NWS home page. When displayed with an Internet browser, graphical forecasts for up to seven days

in advance can be viewed. These products are compliant with the 1998 Amendment to Section 508 of the Rehabilitation Act.

## c. Other Details -

- (1) The Graphical Forecast Table was created by Carin Goodall, WFO Newport/Morehead City, NC
- (2) Refer to NWSI 10-503, WFO Public Weather Forecast Products Specification for a technical description of the Area Forecast Matrices (AFM) product.