Product/Service Description Document Experimental Expanded Point Forecast Matrix Webpage Product WFO Charleston SC

Part I - Mission Connection

- a. <u>Product/Service Description</u> The National Weather Service's (NWS) Experimental Expanded Point Forecast Matrix provides point forecast information using the NDFD data base for 36 sites across the Charleston CWA. This experimental web page will be linked to from the main Charleston, SC National Weather Service web page.
- b. Product Type Experimental
- c. <u>Purpose</u> The purpose of this experimental web page is to provide customers and partners with a significant expansion of the number of Point Forecast Matrix (PFM) sites. The format of this Experimental Expanded Point Forecast Matrix will be the same as the operational PFM. This webpage will support NOAA's Mission Goals of Serving Society's Needs for Weather and Water Information.
- d. <u>Audience</u> The target audience for this experimental product is predominately the television media community. Although emergency managers, state officials, town managers, fire weather officials and the general public may benefit from this product.
- e. <u>Presentation Format</u> The site consists of 36 sites in the same format as the official PFM. Sites were chosen based on customer and partner input and taking into consideration the size and location of cities/towns/land marks. Note, all 20 county seats are included in this experimental product.
- f. <u>Feedback Method</u> We are always seeking feedback on NWS products and services to facilitate future improvements. Feedback concerning this experimental product will be solicited from the television media either during one-on-one or group meetings. In addition, a web survey can be used to obtain customer and partner feedback. The survey is available at the following link: http://www.weather.gov/survey/web-survey.php?code=cc-marine

The feedback period will be from 5/1/07 to 11/1/08.

Part II - Technical Description

a. Format and Science Basis - The NDFD database will be used to generate the Experimental Expanded Point Forecast Matrix. A formatter will be used to extract weather forecast elements for each of the sites. The format of this product will be identical to that of the official Point Forecast Matrix and will include the forecast high and low temperatures, 12 hourly probability of precipitation and 12 hourly quantitative precipitation forecast for the next 7 days, the 3 hourly forecast of temperature, dew point temperature, relative humidity, wind direction, wind speed, clouds, weather and heat index (wind chill from October 1st through March 31st) and maximum heat index (minimum wind chill from October 1st through March 31st) for the first 3 days, and 6 hourly forecast of temperature, dew point, prevailing wind direction, wind characteristic, and average cloud cover for days 4 through 7. A product key is also included at the bottom of the product. Locations to be included in this experimental product are as follows:

- Charleston International Airport, SC
- Savannah International Airport, GA
- Charleston Waterfront, SC
- Beaufort Marine Corp Air Station, SC
- Walterboro, SC
- Metter, GA
- Isle of Palms, SC
- McClellanville, SC
- Ravenel, SC
- Kiawah Island, SC
- Hilton Head Island, SC
- Bluffton, SC
- Allendale, SC
- Hampton, SC
- Monks Corner, SC
- St. George, SC
- Edisto Beach, SC
- Ridgeland, SC
- Summerville, SC
- Downtown Savannah, GA
- Tybee Island, GA
- Claxton, GA
- Millen, GA
- Hinesville, GA
- Ludowici, GA
- Pembroke, GA
- Richmond Hill, GA
- Springfield, GA
- Townsend, GA
- Darien, GA
- Skidaway Island, GA
- Halfmoon Landing, GA
- Wilmington Island, GA
- Reidsville, GA
- Statesboro, GA
- Sylvania, GA

Locations may be added to or taken away from this experimental product based on feedback from customers and partners.

b. <u>Availability</u> - The NDFD database will be updated at least twice a day and more often as conditions warrant. The Experimental Expanded Point Forecast Matrix will also be updated at least twice a day and more often when needed. It is possible that this experimental

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 0 TO <=5 PERCENT</td>
 SUNNY/CLEAR

 FW
 >5 TO <=25 PERCENT</td>
 SUNNY/MOSTLY CLEAR

 SC
 >25 TO <=50 PERCENT</td>
 PARTLY CLOUDY

 B1
 >50 TO <=69 PERCENT</td>
 MOSTLY CLOUDY

 B2
 >69 TO <=87 PERCENT</td>
 MOSTLY CLOUDY

 OV
 >87 TO 100 PERCENT
 CLOUDY

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CODE	TYPE		CODE	QUALIFYING TERM							
F	FOG		S	SLIGHT							
PF	PATCHY FOG		С	CHANCE							
F+	DENSE FOG		L	LIKELY							
PF+	PATCHY DENSE FOG		0	OCCASIONAL							
Н	HAZE		D	DEFINITE							
BS	BLOWING SNOW										
K	SMOKE										
BD	BLOWING DUST										
AF	VOLCANIC ASHFALL										
EX	XTENDED WIND FORECAST (CHARACTER									
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CODE	WIND CHARACTER	WIND S	PEED								
LT	LIGHT	< 8 MPI	< 8 MPH								
GN	GENTLE	8-14 M	PH								
ΒZ	BREEZY	15-22 1	MPH								
WY	WINDY	23-30 1	23-30 MPH								
VW	VERY WINDY	31-39 1	MPH								
SD	STRONG/DAMAGING	>=40 M	PH								

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