U.S Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service - Eastern Region
Airport Corporate Center
Bohemia, New York 11716-2618

February 21, 2008

MEMORANDUM FOR: W/OS11 – Susan Reiley

FROM: W/ER - Dean P. Gulezian /signed/

SUBJECT: Experimental Product Changes

Per NWS Instruction, 10-102, the following experimental product has been terminated effective immediately:

1) NOAA Weather Radio (Available on the web from NWS State College, PA)

Please remove these products from the national database immediately.

Per NWS Instruction, 10-102, the following experimental product is declared operational effective February 21, 2008:

1) NDFD Climate (Originated by NWS Cleveland, OH)

Please change the status of this product to operational effective February 21, 2008.

If you have any questions please contact David R. Manning – W/ERx2 (David.Manning@noaa.gov).

cc. J. Guiney, W/ER1
R. Dickman, W/ER1x1
D. Manning, W/ERx2
W. Levine, W/SP

Product/Service evaluation form

Evaluation By: Christopher Mello
We recommend NDFDClimate become operational since the comments have been positive. Also, a local power company and private weather company have shown interest. NDFDClimate application has withstood a scientific review process through the National Weather Service. NDFDclimate continues to run on a stand-alone LINUX computer outside of AWIPS with minimal maintenance.

Product/Service Name: NDFDClimate
Product/Service Developed By: Christopher Mello
Product/Service Website (URL):
http://www.erh.noaa.gov/cle/weather/wseta/NDFDClimate.html

Product Description- NDFDClimate is a computer application that creates images of forecast and climatological parameters for the continental U.S. from two different digital data sets. The first data set is the NDFD (National Digital Forecast Database) weather forecast grids produced by the NOAA National Weather Service (NWS) and the second data set is PRISM (Parameter-elevation Regressions on Independent Slopes Model), an expert system that uses point climatological temperature data and a digital elevation model (DEM) to generate gridded estimates of climate parameters. The NOAA National Weather Service (NWS) National Digital Forecast Database (NDFD) contains digital forecast grids of sensible weather elements such as temperature, wind, and precipitation in a mosaic from collaborating field offices across the U.S. for forecasts out to seven days. Daily digital climatology grids of maximum and minimum temperature are created using Parameter-elevation Regressions on Independent Slopes Model (PRISM; Daly et al. 1994) method. NDFDClimate grids produced include: PRISM derived normal daily maximum and minimum temperatures, NDFD derived forecasted heating and cooling degree days through day 6, NDFD forecasted daily minimum and maximum temperature anomalies derived from PRISM daily climate fields through day six, NDFD derived five day total of forecast heating and cooling degree days, NDFD forecasted number of hours the temperature is above or below a defined temperature through day three, NDFD forecasted 24- and 48-hour forecast temperature changes from forecast issue time.

Does product comply with NOAA partnership policy? Yes
Is this product/service replacing or similar to another product/service? No
Does product/service meet scientific specification? Yes
Comments for this product/service have been favorable? Yes
Do any comments express a view that it is inappropriate for NWS to provide this product/service? (If yes provide comments) No
Does product/service need further development? No
Product/service availability: Non-Seasonal
Is special equipment required to receive/view product/service? No
Are resources available to implement and sustain the product/service operationally?
Yes
Describe special equipment required: Access to Internet

Indicate any outreach activities used to educate affected users and invite their comments: Conference. 2006 Great Lakes Conference. Conference. 2007 Eastern Region Climate workshop.

a. A technical evaluation of the product including the scientific basis of the product.
NDFDClimate has gone through a review process. A final technical attachment can be read at
http://products.weather.gov/PDD/NDFDClimatePDD.pdf.

b. An evaluation of comments received including assessment of public reaction, whether
stated user needs have been met, or whether further development is required.

Feedback has been positive. Private weather companies have expressed interest in obtaining the software. Local forecasters NWS forecasters have made suggestions to improve the web page. A new web page is currently under construction. The biggest change will be a java based web page with without any new windows popping up, size of the images and the labels. The images themselves will not change. Local users have expressed interest in the fields.