National Climatic Data Center

DATA DOCUMENTATION

FOR

DATASET 6435 (DSI-6435)

NOAAPort NWSTG
Gridded Models

May 24, 2005

National Climatic Data Center
151 Patton Ave.
Asheville, NC 28801-5001 USA

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1. Abstract: The National Climatic Data Center maintains past data from the NOAAPort NWSTG. The NOAAPort broadcast system provides a one way-broadcast communication of NOAA environmental data and information in near-real time to NOAA and external users. This broadcast service is implemented by a commercial provider of satellite communications utilizing C-band. Weather data is collected by GOES satellite environmental sensors and NWS observing systems, and processed to create products. The products are fed to the AWIPS Network Control Facility (NCF) which routes the products to the appropriate NOAAPort channel for uplink and broadcast.

The NOAAPort data and products are formatted for transmission by the NWS and are currently provided by four data streams, however NCDC only archives the NCEP/NWSTG Channel. **This documentation represents the data/products that are in bold below.**

GOES East Channel - From the GOES East satellite, a data stream consisting of the following imagery products: visible, infrared, and water vapor for the Eastern Conterminous United States (CONUS), Puerto Rico, supernational composites, and Northern Hemisphere (NH) composites.

GOES West Channel - From the GOES West satellite, a data stream consisting of the following imagery products: visible, infrared, water vapor for CONUS, Alaska, and Hawaii; supernational composites, and NH composites.

NCEP/NWSTG Channel - From the NWS Telecommunications Gateway (NWSTG) this data stream consists of a variety of text and binary data including the entire Family of Services:
Domestic Data - observations, text model output,
Public Products - advisories, watches, warnings and forecasts
International Data - non US data sources, mostly observational data
A superset of the Hi-Res data streams - GRIB/BUFR data from all the major NWS models (NGM, AVN, MRF, Early Eta, MesoEta, and RUC) as well as model data from ECMWF and UKMET.
NIDS - It includes a substantial subset of the Nexrad Radar data stream
NLDN - lightning data and
Graphical products (Redbook and GIF formats).

Non-GOES Imagery/DCP Data Channel - This channel's data stream includes GOES DCP data, GMS/GOES-West/GOES-East/METEOSAT-5/METOSAT-7 composites for visible, IR, and water vapor products (every 3 hours), OCONUS grids, and reserve capacity for selected other satellite imagery to be acquired by NESDIS for future field applications.

More information about each channel content can be found here:
http://weather.unisys.com/noaaport/NOAAPORT_Channel_Content.html

The products available are determined by current weather patterns. More than 6,400 individual products per day are transmitted. As the NWS modernizes, it anticipates little change to this satellite system. The NWS expects, however, that modernizing operations will be matched with a significant growth in the total number of weather products available. As part of the transition to modernized operations, the NWS is investigating the feasibility of using the NOAAPORT to transmit greater numbers of forecasts and warnings in graphical form.

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2. Element Names and Definitions:

NOAAPort products have the following characteristics:

- Every product has a WMO header
- Every product is transmitted in one of several code forms or formats depending on data type as identified in the header
- The products appear on one of four NOAAPort logical channels
- Although many products appear regularly, there is no product schedule. NOAAPort is a data-driven system, not a time-driven system.
- The products available are determined by current weather patterns and available data and are subject to change.

More format information can be found here:
http://www.nws.noaa.gov/noaaport/html/data.shtml

3. Start Date: 20001125

4. Stop Date: Present

5. Coverage:

a. Southernmost Latitude: 90.0S
b. Northernmost Latitude: 90.0N
c. Westernmost Longitude: 180.0W
d. Easternmost Longitude: 180.0E

6. How to Order Data:

Ask NCDC's Climate Services about the cost of obtaining this data set.
Phone: 828-271-4800
FAX: 828-271-4876
E-mail: **NCDC.Orders@noaa.gov**

7. Archiving Data Center:

Archive Branch
National Climatic Data Center
151 Patton Avenue
Asheville, NC 28801

8. Technical Contact:

National Climatic Data Center
151 Patton Avenue

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Asheville, NC 28801

9. **Known Uncorrected Problems**: None.

10. **Quality Statement**:

11. **Essential Companion Datasets**:

12. **References**: