

National Climatic Data Center

DATA DOCUMENTATION

FOR

DATASET 9615(DSI-9615)

Experimental Bi-Weekly Global NDVI Data

March 9, 2004

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

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1. **Abstract:** The National Climatic Center has in its possession the historical dataset DSI-9615, Experimental Bi-Weekly Global NDVI Product. An experimental normalized difference vegetation index (NDVI) was computed at the EROS Data Center from weekly visible and near-IR data available from NOAA's Global Vegetation Index product. The Mercator projected product of NOAA was utilized. The data are available from 55 degrees south to 75 degrees north. Data resolution in the Mercator projection varies from 19.6 km at the equator to 15 km at 40 degrees (N or S). The reflectance values of the visible and near -IR data were computed from pre-launch calibration coefficients. The NDVI was computed as:

$$\text{NDVI} = (\text{near-IR} - \text{visible}) / (\text{near-IR} + \text{visible}).$$

The calibrated visible and near-IR data, and solar zenith angle data included on the GVI product were utilized to screen the NDVI data for cloud contamination and low (less than 15 degrees) solar elevation at the time of the data acquisition. Data were also screened for data drops. Two successive weeks of the screened NDVI data were then composited based on the maximum NDVI value of the two weeks. The bi-weekly data were processed for April 1985 through 1989. The start date of the bi-weekly composite intervals was 099 (9 April) in 1985. The start dates in 1986, 1987 and 1988 were January 01. Processing intervals changed in 1988 on April 11 to a Monday through Sunday weekly cycle. The start date in 1989 was January 02.

2. **Element Names and Definitions:**

No information was provided with original documentation.

3. **Start Date:** 19850101

4. **Stop Date:** 19890131

5. **Coverage:**

- a. Southernmost Latitude: 55.0S
- b. Northernmost Latitude: 75.0N
- 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

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8. Technical Contact:

National Climatic Data Center
151 Patton Avenue
Asheville, NC 28801

9. Known Uncorrected Problems: None.

10. Quality Statement:

11. Essential Companion Datasets:

12. References:

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