CDIC NUMERIC DATA COLLECTION

Volcanic Loading: The Dust Veil Index
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VOLCANIC LOADING: THE DUST VEIL INDEX

Contributed by

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September 1985

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CDIC NUMERIC DATA PACKAGE NDP-013

ABSTRACT

DOI: 10.3334/CDIAC/atg.ndp013

1. NUMERIC DATA PACKAGE NAME

Volcanic Loading: The Dust Veil Index

2. CONTRIBUTOR(S)

H. H. Lamb
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University of East Anglia
Norwich, UNITED KINGDOM

3. HISTORICAL BACKGROUND INFORMATION

Dust ejected into the high atmosphere during explosive volcanic eruptions has been considered as a possible cause for climatic change. Dust veils created by volcanic eruptions can reduce the amount of light reaching the Earth's surface and can cause reductions in surface temperatures. These climatic effects can be seen for several years following some eruptions and the magnitude and duration of the effects depend largely on the density or amount of tephra (i.e. dust) ejected, the latitude of injection, and atmospheric circulation patterns.

Lamb (1970) formulated the Dust Veil Index (DVI) in an attempt to quantify the impact on the Earth's energy balance of changes in atmospheric composition due to explosive volcanic eruptions. The DVI is a numerical index that quantifies the impact of a particular volcanic eruptions release of dust and aerosols over the years following the event. The DVI for any volcanic eruption is based on a review of the observational, empirical, and theoretical studies of the possible impact on climate of volcanic dust veils. Various lists of volcanic eruptions are available (Royal Society 1888, Sapper 1917 & 1927, Shaw 1936, Humphreys 1940, Gutenberg and Richter 1954, Bulletin Volcanologique 1924-60, Bulletin of Volcanic Eruptions 1961, and the Smithsonian Institution's SEAN Bulletin 1976- ) and have been used in estimating Lamb's dust veil indices.

4. SOURCE AND SCOPE OF THE DATA

This package provides DVI's for the period 1500 A.D. to 1983 A.D. along with DVI estimates for the eruptions of Santorin in 1470 B.C., Vesuvius in 79 A.D., and Oraefajokull in 1362 A.D. Descriptions of individual eruptions and details on the methods used in assessing the DVI of a
particular eruption are provided in the critical documents. Five different methods have been used by Lamb to determine the DVI for any particular eruption. Final DVI values are averages, sometimes corrected subjectively, of the estimates produced by as many of the five methods as data availability permits. The first method used was to make subjective estimates based on previous compilations of secondary historical sources. Three methods that were developed incorporate formulas devised to systematize the estimation of the DVI after the initial subjective or "free" estimates had been made. These three formulas estimate the DVI based on the depletion of radiation following the eruption, temperature variations following the eruption, and the amount of solid material dispersed as dust after an eruption, respectively. The three formulas are:

\[ DVI = 0.97 \, R_{\text{max}} \, E_{\text{max}} \, t_{\text{mo}} \]  
\[ DVI = 52.5 \, T_{\text{dmax}} \, E_{\text{max}} \, t_{\text{mo}} \]  
\[ DVI = 4.4 \, q \, E_{\text{max}} \, t_{\text{mo}} \]  

The quantity \( t_{\text{mo}} \) and \( E_{\text{max}} \) in each equation are estimates of the veil duration in months and the geographical extent of the veil, respectively. \( E_{\text{max}} \) for any eruption is dependent on the latitude of the particular volcano and is:

- \( 1.0 \) for an eruption between \( 20^\circ \text{N} \) and \( 20^\circ \text{S} \)
- \( 0.7 \) for an eruption between \( 20^\circ \) and \( 35^\circ \)
- \( 0.5 \) for an eruption between \( 35^\circ \) and \( 40^\circ - 42^\circ \)
- \( 0.3 \) for an eruption in higher latitudes.

\( R_{\text{max}} \) (1) is the greatest percentage of depletion of direct radiation following the eruption, as registered by the monthly averages in middle latitudes of the hemisphere concerned. \( T_{\text{dmax}} \) (2) represents the estimated lowering of average temperature in degrees Celsius over the middle latitude zone of the affected hemisphere in the year most affected following an eruption. The value \( q \) (3) is an estimate in cubic kilometers of the solid matter dispersed as dust in the atmosphere. All five estimation methods have been intercalibrated to give a DVI of 1000 for the eruption of Krakatoa in 1883. The numerical constants (e.g., 0.97) given in the above formulas are scaling factors to aid in accomplishing this intercalibration. Greater detail about the formulas and assumptions used in estimating the DVI values are given in the critical documents provided in this package.

Many of the earlier eruptions had no data available other than Sapper's rating of the lava and tephra magnitude of the eruption. The fifth method developed by Lamb was to calculate an average DVI value for each of Sapper's tephra ratings for eruptions where independent data were available.
5. APPLICATIONS OF THE DATA

The DVI is an attempt to place a quantitative measure on the magnitude of volcanic eruptions and allows comparisons of volcanic eruptions by a single numerical index. Comparisons can also be made to the Volcanic Explosivity Index (VEI) recently developed by Simkin et al. (1981) (see also Newhall and Self 1982), although the VEI is based on geological considerations. The impact on the energy balance by the dust and aerosols ejected into the atmosphere results in climatic change on a short-term basis. The short-term effects can be used to calibrate models for simulating climate change under various regimes. Additionally, the DVI has been used extensively in assessing climatic change that may be attributed to an increase in the atmospheric concentration of carbon dioxide.

6. LIMITATIONS/RESTRICTIONS

The DVI values should be used only to indicate order of magnitude and should not be used without reference to the method(s) used in its estimation. The data available for many early eruptions are not sufficient to place a high degree of reliability on the DVI estimates for these eruptions. The fact that DVI estimates could not be made for many eruptions indicates the sparcity of data available for many known eruptions. The formulas used in estimating the DVI lend a false impression of precision to the DVI when in actuality estimates of DVI by any of these methods are subject to considerable error. However, consistency studies suggest that reasonable confidence can be achieved in dust veil index values derived from two or more formula.

7. DESCRIPTION OF VARIABLES AND FORMATS

The data are catalogued by the date of the eruption with one line of data per eruption. The variables and data given for each eruption are: YEAR (year of eruption), LAT (latitude of volcano), LONG (longitude), NAME (name of volcano), EMAX (maximum extent), DURAT (duration), DVIG (DVI for the entire globe), DVIN (DVI for the Northern Hemisphere), DVIS (DVI for the Southern Hemisphere), and RATIO (DVI for the entire globe/maximum extent). The data are formatted as:

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FORMAT(I4,F6.2,F6.1,26A1,F3.1,2X,I2,4I5)
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8. KEYWORDS

DUST VEIL INDEX; VOLCANIC ERUPTIONS; CLIMATE CHANGE; ENERGY BALANCE
9. CONTENTS OF THE PACKAGE

The package contains the referenced documents (a), and three files of information written in EBCDIC on magnetic tape as card images: a descriptive file, a FORTRAN data retrieval code (lacking job control language), and the dust veil index data file. Total records: 525.

a. Included in the package:


b. Background information:


Smithsonian Institution 1976-. SEAN Bulletin. Washington, DC.

10. HOW TO OBTAIN THE PACKAGE

The documentation of NDP-013 contains a sample listing of the dust veil index data file. The appendices in the critical documents also contain listings of the DVI's. Entire listings of the data file are available on magnetic tape upon request. Requests for computerized data should be accompanied by a reel of tape and special instructions for transmitting the data. Tape requests not accompanied by a tape or instructions will be filled with a standard-labeled, 6250 BPI, 9-track density tape with files formatted as listed in the Tape Contents Section (pg. 6).

Requests should be addressed to:

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Carbon Dioxide Information Center
Oak Ridge National Laboratory
Post Office Box X
Oak Ridge, Tennessee 37831-2008

11. NUMERIC DATA PACKAGE PREPARED BY:

Carbon Dioxide Information Center
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Oak Ridge National Laboratory
Oak Ridge, Tennessee 37831

Technical Coordinators -
Thomas A. Boden

Computer Coordinator -
Julia A. Watts
Thomas A. Boden

12. DATE OF ABSTRACT

September 1985
### TAPE CONTENTS

**Tape Information**
- **Density**: 9 Track

**Package NDP-013**
- **Date Packaged**: 09-85
- **Most Recent Update**: 

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Files 1 and 2 are provided by the Carbon Dioxide Information Center. File 2 is a FORTRAN retrieval code (lacking job control language) to read and list the dust veil index data (File 3). The dust veil index data was contributed by H. H. Lamb of the Climatic Research Unit, University of East Anglia, Norwich, UNITED KINGDOM.
Dataset Title: Volcanic Loading: The Dust Veil Index

Contributor(s):

H. H. Lamb
Climatic Research Unit
University of East Anglia
Norwich, UNITED KINGDOM

Scope of the Data: This package provides dust veil indices (DVI) for the period 1500 A.D. to 1983 A.D. along with estimates for the eruptions of Santorin in 1470 B.C., Vesuvius in 79 A.D., and Oraefajokull in 1362 A.D. Descriptions of individual eruptions and details on the methods used in assessing the DVI of a particular eruption are provided in the critical documents.

Data Format: The data are catalogued by the date of the eruption with one line of data per eruption. The variables and data given for each eruption are: YEAR (year of eruption), LAT (latitude of volcano), LONG (longitude), NAME (name of volcano), EMAX (maximum extent), DURAT (duration in months), DVIG (DVI for the entire globe), DVIN (DVI for the Northern Hemisphere), DVIS (DVI for the Southern Hemisphere), and RATIO (DVI for the entire globe maximum extent). The data are formatted as:

FORMAT(I4,F6.2,F6.1,26A1,F3.1,2X,I2,4I5)

**********************************************************************
REFERENCES
**********************************************************************


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INTEGER DURAT, DVIG, DVIN, DVIS, RATIO
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     1 EMAX, DURAT, DVIG, DVIN, DVIS, RATIO
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