

Identification_Information:

Citation:

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Originator: Air Force Weather Agency (AFWA), Offutt AFB, NE

Publication_Date: 20000316

Title: Snow Analysis

Geospatial_Data_Presentation_Form: Planetary

Publication_Information:

Publication_Place: Asheville, NC

Publisher: Air Force Combat Climatology Center

Description:

Abstract: This product provides mean monthly snow depth values on a polar stereographic eighth mesh grid (approximately 25 NM spacing) over the entire globe.

Purpose: Support DoD projects.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 19751109/0000Z

Ending_Date: Present

Currentness_Reference: From the data

Status:

Progress: In work

Maintenance_and_Update_Frequency: Daily

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -180

East_Bounding_Coordinate: 180

North_Bounding_Coordinate: 90

South_Bounding_Coordinate: -90

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Snow Analysis

Theme_Keyword: Meteorology

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: Global

Stratum:

Stratum_Keyword_Thesaurus: None

Stratum_Keyword: Surface

Temporal:

Temporal_Keyword_Thesaurus: None

Temporal_Keyword: Climatology-daily

Access_Constraints: Access through AFCCC is limited to DoD agencies and their contractors. All other requests are filled through the National Climatic Data Center in Asheville, N.C.

Use_Constraints: None

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Branch Chief, AFCCC/DOD

Contact_Organization: AFCCC/DOD

Contact_Address:

Address_Type: Mailing and Physical

Address: 151 Patton Avenue, Room 120

City: Asheville

State_or_Province: NC
Postal_Code: 28801-5002
Country: USA

Contact_Voice_Telephone: (828) 271-4299
Contact_Voice_Telephone: DSN (312) 673-9006
Contact_Facsimile_Telephone: (828) 271-4334
Contact_Facsimile_Telephone: DSN 673-9024
Contact_Electronic_Mail_Address: dod@afccc.af.mil
Hours_of_Service: 0730-1630 Eastern Time M-F

Data_Set_Credit: Collected and decoded by the Air Force Weather Agency
(AFWA)

Security_Information:
Security_Classification_System: DoD
Security_Classification: Unclassified
Security_Handling_Description: None

Data_Quality_Information:

Logical_Consistency_Report: Daily automated gross limit checks are run against the Snow Analysis data after they are loaded into the Oracle tables where problems identified can be investigated manually. Daily gross limit checks began being applied to the data on October 20, 2006. Prior to this date, no daily gross limit checks were run on this data. Any data failing a gross limit check is manually reviewed.

Completeness_Report: The earliest Snow Analysis data in the archive is from November 09, 1975. During June 2002 through March 2005, most of the snow analysis data was lost and unable to be recovered. A small portion of the snow analysis data exists for this time period.

Lineage:

Process_Step:

Process_Description: The Air Force Weather Agency, Offutt AFB, NE collects data from reporting stations around the world and runs an analysis of this data. Once the snow data is analyzed, it is formatted into an 8th mesh grid over global land areas.

Process_Date: unknown

Process_Step:

Process_Description: AFWA sends the snow analysis data to AFCCC to be processed and archived. The data is checked for compliance with gross limits, and reformatted into the archived format as described in the entity and attribute information.

Process_Date: unknown

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: SNOW ANALYSIS DATABASE

Entity_Type_Definition: Data Description

Snow analysis for the northern hemisphere is divided into 64 boxes with each box having 4096 data points (64X64). Of these 64 boxes, 28 are presently used. Southern hemisphere snow analysis is divided into 64 boxes with each box having 4096 data points (64X64). Of these 64 boxes, 17 are now used. The number of boxes in use is open to change at any time. Only boxes 1, 8, 57, and 64 will not be used as they are all completely off-globe. Each box, year, month, day, hour of data has 3 data records:

(1) Snow Age

(2) Snow Depth

(3) Snow Climatology in this specific order. All data

are in ASCII characters. The data file contains data for the following boxes:

NH: 12, 13, 14, 19, 20, 21, 22, 23, 27, 28, 29, 30, 31,
35,36, 37, 38, 39, 43, 44, 45, 51, 52, 53, 60, 61, 62
SH: 105, 106, 113, 115, 121, 128, 129, 135, 136, 137,
139, 140, 142, 143, 150, 151, and 152.

Snow Analysis data archived after 01 Jun 2002 contained points for the entire northern and southern hemispheres. Snow analysis for the northern hemisphere is divided into 64 boxes with each box having 4096 data points (64X64). Boxes 1, 8, 57, and 64 will not be used as they are all completely off-globe. Southern hemisphere snow analysis is divided into 64 boxes with each box having 4096 data points (64X64). Boxes 101, 108, 157, and 164 will not be used as they are all completely off-globe. Each box, year, month, day, hour of data has 3 data records:

- (1) Snow Age
- (2) Snow Depth
- (3) Snow Climatology

in this specific order. All data are in ASCII characters. The data file contains data for the following boxes:

NH: 002-007, 009-056, 058-063
SH: 102-107, 109-156, 158-163.

Data Format

General Layout

Snow Analysis fields are in fixed character format, right justified, leading zeroes, with a record length of 16400 characters, unblocked (block length 16400). Valid box numbers for the Northern Hemisphere are 002-063, excluding 008 and 057. Valid box numbers for the Southern Hemisphere are 102-163, excluding 108 and 157.

Data Record Breakout - Control Section 99

Pos:1 - 3
Data Type: CHAR
Range of Values: 002-063 & 102-163
DOM: Box Number (exclude boxes 8, 57, 108, 157)

Pos: 4 - 7
Data Type CHAR
Range of Values 0000-9999
DOM: Year

Pos: 8 - 9
Data Type: CHAR
Range of Values: 01-12
DOM: Month

Pos: 10 - 11
Data Type CHAR
Range of Values 01-31
DOM: Box Day

Pos: 12 - 13
Data Type CHAR
Range of Values 00
DOM: Hour

Pos: 14 - 14
Data Type CHAR
Range of Values 1-3
DOM: 1 : Snow Age Record, 2 : Snow Depth Record,

3: Snow Climatology Record

Pos: 15 - 15
Data Type CHAR
Range of Values A, D, C
DOM: A: Snow Age Record, in whole days, B: Snow
Depth Record (tenths of inches), C: Snow Climatology Record (tenths of inches)

Pos: 16 - 16
Data Type CHAR
Range of Values [blank]
DOM: open

Data Record Breakout - Data Section

Pos: 17 - 20
Data Type CHAR
Range of Values 0000-9998 & 9999
DOM: Data (for point I on the 64x64 grid system),
Missing or off-globe points coded as 9999

Pos: 21 - 16400
Data Type CHAR
Range of Values 0000-9998 & 9999
DOM: Data for points 2 through 4096 of the 64x64
grid. Each field is defined the same as positions 17-20.

Entity_Type_Definition_Source: AFCCC

Overview_Description:

Entity_and_Attribute_Overview: None

Entity_and_Attribute_Detail_Citation: Global Snow Depth Climatology,
USAFETAC/TN-88/006, December 1988.

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: AFCCC/DOO

Contact_Address:

Address_Type: Mailing and Physical

Address: 151 Patton Avenue, Room 120

City: Asheville

State_or_Province: NC

Postal_Code: 28801-5002

Country: USA

Contact_Voice_Telephone: (828) 271-4291

Contact_Voice_Telephone: DSN 673-9004
Contact_Facsimile_Telephone: (828) 271-4334
Contact_Facsimile_Telephone: DSN 673-9024
Contact_Electronic_Mail_Address: doo_all@afccc.af.mil
Hours_of_Service: 0730-1630 Eastern Time M-F

Resource_Description: Snow Analysis

Distribution_Liability: The data represents the results of data collection/processing for a specific U.S. Air Force activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time, and accuracy specifications. The user is responsible for the results of any application of the data for other than its intended purpose.

Custom_Order_Process: Order through the above distribution contact or this web site: https://www2.afccc.af.mil/forms_mil/html/restricted/sarform.html

Metadata_Reference_Information:

Metadata_Date: 20070126
Metadata_Review_Date: 20070126
Metadata_Future_Review_Date: 20080126
Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:
Contact_Organization: AFCCC/DOD
Contact_Address:
Address_Type: Mailing and physical.
Address: 151 Patton Avenue Room 120
City: Asheville
State_or_Province: NC
Postal_Code: 28801-5002
Country: USA

Contact_Voice_Telephone: (828) 271-4299
Contact_Voice_Telephone: DSN 673-9006
Contact_Facsimile_Telephone: (828) 271-4334
Contact_Facsimile_Telephone: DSN 673-9024
Contact_Electronic_Mail_Address: dod@afccc.af.mil
Hours_of_Service: 0730-1630 EST M-F

Metadata_Standard_Name: FGDC-Content Standards for Digital Geospatial

Metadata.

Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: Universal Time
Metadata_Access_Constraints: None
Metadata_Use_Constraints: None
Metadata_Security_Information:
Metadata_Security_Classification_System: DoD
Metadata_Security_Classification: Unclassified
Metadata_Security_Handling_Description: None