

Identification\_Information:

Citation:

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Originator: AFCCC - Air Force Combat Climatology Center

(AFCCC)

Publication\_Date: 20070315

Title: AGRICULTURAL METEOROLOGY (AGRIMET) Database

Geospatial\_Data\_Presentation\_Form: Digital

Description:

Abstract: This dataset contains agrometeorological analysis in 58 (over land areas) of the possible 64-1/8 mesh grid boxes. The data analysis was produced once a day for the previous 24 hour period and incorporates surface observations, HIRAS (High Resolution Analysis) model data, SSM/I (Special Sensor Microwave Imager) data, RTNEPH (Real Time Nephanalysis) cloud data, and the Snow Model.

Purpose: Support DoD projects.

Time\_Period\_of\_Content:

Time\_Period\_Information:

Range\_of\_Dates/Times:

Beginning\_Date: 199301

Ending\_Date: 199810

Currentness\_Reference: From the data

Status:

Progress: In work

Maintenance\_and\_Update\_Frequency: Monthly

Spatial\_Domain:

Bounding\_Coordinates:

West\_Bounding\_Coordinate: -180.0

East\_Bounding\_Coordinate: 180.0

North\_Bounding\_Coordinate: 90.0

South\_Bounding\_Coordinate: -90.0

Keywords:

Theme:

Theme\_Keyword\_Thesaurus: None

Theme\_Keyword: agricultural

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: 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

Data\_Set\_Credit: This dataset is produced at the Air Force Weather Agency.

Security\_Information:

Security\_Classification\_System: DoD

Security\_Classification: Unclassified

Security\_Handling\_Description: None

Data\_Quality\_Information:

Logical\_Consistency\_Report: The files were archived as they were received from AFWA. No additional quality control was performed on this dataset.  
Completeness\_Report: The earliest AGRIMET data in the database is from January 1993.

Lineage:

Process\_Step:

Process\_description: AFCCC collected the data from AFWA once a day. The files were archived in ASCII format as climatological records at AFCCC.

Process\_date: Unknown

Entity\_and\_Attribute\_Information:

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: AGRIMET Database

Entity\_Type\_Definition: Data Sequence

Pos 1-3 Box Number

Definition: 1/8 Mesh grid box number

Data Type: INTEGER

Max Character Count: 3

Low Range: 003 High Range: 160

COMMENT TEXT: Northern Hemisphere boxes: 003, 004, 005, 006, 011, 012, 013, 014, 015, 016, 019, 020, 021, 022, 023, 024, 027, 028, 029, 030, 031, 032, 038, 039, 040, 043, 044, 045, 047, 048, 051, 053, 060, 061, and 062

Southern Hemisphere boxes: 104, 105, 106, 107, 113, 114, 115, 121, 135, 139, 140, 142, 143, 144, 147, 148, 150, 151, 152, 158, 159, and 160

Pos 4-5 I Coordinate (horizontal)

Definition: The I coordinate of a point on the grid

Data Type: INTEGER

Max Character Count: 2

Low Range: 01 High Range: 64

COMMENT TEXT: The northern hemisphere grid is centered on the north pole with horizontal through the pole running along 170W and 10E and the vertical through 80W and 100E. The southern hemisphere grid is centered on the south pole with horizontal through the pole running along 10E and 170W and the vertical through 100E and 80W.

Pos 6-7 J Coordinate (vertical)

Definition: The J coordinate of a point on the grid

Data Type: INTEGER

Max Character Count: 2

Low Range: 01 High Range: 64

COMMENT TEXT: The northern hemisphere grid is centered on the north pole with horizontal through the pole running along 10E and 170W and the vertical through 80W and 100E. The southern hemisphere grid is centered on the south pole with horizontal through the pole running along 10E and 170W and the vertical through 100E and 80W.

Pos 8-11 Year

Definition: The calendar year of the geophysical data contained in a geophysical-analysis-forecast  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 1993 High Range: 1998

Pos 12-13 Month

Definition: The calendar month of the geophysical data contained in a geophysical-analysis-forecast  
Data Type: INTEGER  
Max Character Count: 2  
Low Range: 01 High Range: 12

Pos 14-15 Day

Definition: The calendar day of the geophysical data contained in a geophysical-analysis-forecast  
Data Type: INTEGER  
Max Character Count: 2  
Low Range: 01 High Range: 31

Pos 16-16 Constant

Definition: Constant integer value  
Data Type: INTEGER  
Max Character Count: 1  
Domain Value: 1

Pos 17-20 Snow Depth

Definition: The estimated depth of snow on the ground  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0000 High Range: 1038  
Units of Measure: Centimeters

Pos 21-24 Maximum Temperature

Definition: The estimated maximum temperature for the forecast period  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 2000 High Range: 3500  
Units of Measure: Degrees Kelvin

Pos 25-28 Minimum Temperature

Definition: The estimated minimum temperature for the forecast period  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 2000 High Range: 3500  
Units of Measure: Degrees Kelvin

Pos 29-32 Mean Temperature

Definition: The estimated mean temperature of the air for the preceding 24 hours  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 2000 High Range: 3500  
Units of Measure: Degrees Kelvin

Pos 33-36 Relative Humidity (at min temp)  
Definition: The estimated rate of the actual vapor pressure of the air to the saturation vapor pressure at the time of the lowest temperature for the preceding 24 hours.  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0000 High Range: 100.0  
Units of Measure: Percent

Pos 37-40 Daily Accumulated Wind  
Definition: The linear dimension of the equivalent distance of air which moved over the observing point in the preceding 24 hour period.  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0000 High Range: 9999  
Units of Measure: Kilometers

Pos 41-44 Mean Soil Temperature (top layer)  
Definition: The estimated temperature of the top 5 centimeters of soil  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 2000 High Range: 3500  
Units of Measure: Degrees Kelvin

Pos 45-48 Photothermal Unit Value  
Definition: The growing season quantity of the accumulated daily sunlight duration multiplied by the daily average temperature  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 000.0 High Range: 999.9  
Units of Measure: Photothermal units

Pos 49-51 Mean Soil Moisture Volumetric (top layer)  
Definition: Mass of water of the top 5 centimeters of soil  
Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 510  
Units of Measure: Volumetric content

Pos 52-54 Mean Soil Moisture Volumetric (lower layer)  
Definition: Mass of water of the 95 centimeters below the top layer of soil  
Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 510  
Units of Measure: Volumetric content

Pos 55-58 Estimated Precipitation  
Definition: The estimated 24 hour sum (of 2-12 hourly estimated precipitation) precipitation value  
Data Type: INTEGER  
Max Character Count: 4

Low Range: 0000 High Range: 9999  
Units of Measure: Millimeters

Pos 59-62 Real Precipitation  
Definition: The 24 hour sum (of 2-12 hourly precipitation) precipitation value  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0000 High Range: 9999  
Units of Measure: Millimeters

Pos 63-66 Merged Precipitation  
Definition: The sum of the 2-12 hourly merged precipitation value  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0000 High Range: 9999  
Units of Measure: Millimeters

Pos 67-70 Mean Hourly Actual Evapotransportation  
Definition: The estimated rate of water loss from the soil due to evaporation and transpiration.  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0000 High Range: 9999  
Units of Measure: Millimeters per Hour

Pos 71-74 Mean Hourly Potential Evapotransportation  
Definition: The estimated rate of potential loss of water from the soil due to the evaporation or transpiration.  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0000 High Range: 9999  
Units of Measure: Millimeters per Hour

Pos 75-77 Solar Radiation  
Definition: The rate of solar radiation received over the preceding 24 hours  
Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 999  
Units of Measure: Watts per Meter Squared

Pos 78-80 Downward Longwave Radiation  
Definition: The average rate of longwave radiation received over the preceding 24 hours  
Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 999  
Units of Measure: Watts per Meter Squared

Entity\_Type\_Definition\_Source: AFCCC

Overview\_Description:

Entity\_and\_Attribute\_Overview: Due to the volume of the data, customers are requested to specify the specific fields and/or regions they require.  
Entity\_and\_Attribute\_Detail\_Citation: None

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: Agricultural Meteorology (AGRIMET)

Distribution\_Liability:

The data was obtained to support DOD requests for climatological precipitation values. 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 by station or region. Order through the above distribution contact or this web site:

[https://www2.afccc.af.mil/forms\\_mil/html/restricted/sarform.html](https://www2.afccc.af.mil/forms_mil/html/restricted/sarform.html)

Metadata\_Reference\_Information:

Metadata\_Date: 20070315

Metadata\_Review\_Date: 20070315

Metadata\_Future\_Review\_Date: 20080315

Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization: AFCCC/DOD

Contact\_Address:

Address\_Type: Mailing and physical

Address: 151 Patton Avenue Room 120

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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