

Identification\_Information:

Citation:

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Originator: Air Force Combat Climatology Center (AFCCC)

Publication\_Date: 20070228

Title: GFS-Gridded Forecast System Database

Geospatial\_Data\_Presentation\_Form: Planetary

Publication\_Information :

Publication\_Place : Asheville, NC

Publisher : Air Force Combat Climatology Center

Description:

Abstract: The GFS assimilates and produces gridded analyses and forecasts from the surface to 10 Hectopascals. Data sources include conventional surface observations, upper-air reports, and satellite data. It is received at AFCCC 4 times a day for the 6 hourly synoptic times (00Z, 06Z, 12Z, 18Z). The GFS dataset includes pressure (Mean Sea Level), UWIND (u component of wind), VWIND (v component of wind), TEMP (temperature), Dew Point Depression, Geopotential Heights, Temperature Ground Sea Level, and Total Precipitation at Surface Level for both the northern and southern hemispheres.

Purpose: Support DoD projects.

Time\_Period\_of\_Content:

Time\_Period\_Information:

Range\_of\_Dates/Times:

Beginning\_Date: 20041101

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: Meteorology

Theme\_Keyword: Analysis Model

Theme\_Keyword: Atmospheric

Theme\_Keyword: Clouds

Theme\_Keyword: Precipitation

Theme\_Keyword: GFS

Place:

Place\_Keyword\_Thesaurus: None

Place\_Keyword: Global

Stratum:

Stratum\_Keyword\_Thesaurus: None

Stratum\_Keyword: Stratosphere

Stratum\_Keyword: Troposphere

Temporal:

Temporal\_Keyword\_Thesaurus: None

Temporal\_Keyword: 6-hourly

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

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Hours\_of\_Service: 0730-1630 Eastern Time M-F

Data\_Set\_Credit: Produced by National Centers for Environmental Prediction (NCEP).

Security\_Information:

Security\_Classification\_System: DoD

Security\_Classification: Unclassified

Security\_Handling\_Description: None

Data\_Quality\_Information:

Logical\_Consistency\_Report: No quality control is conducted on this data.

Completeness\_Report: The earliest GFS Analysis data in the archive is November 2004.

Lineage:

Process\_Step:

Process\_Description: The Air Force Weather Agency, Offutt AFB, NE collects data from NCEP as GRIB2 files.

Process\_Date: unknown

Process\_Step:

Process\_Description: AFCCC collects the data from AFWA as GRIB2 files. AFCCC reformats the GRIB2 files into GRIB1 files for use and then reformats the files again for climatological records in ASCII format. Files are received for both northern and southern hemispheres.

Process\_Date: Unknown

Entity\_and\_Attribute\_Information:

Detailed\_Description:

Entity\_Type:

Entity\_Type\_Label: GFS- Global Forecast System Database

Entity\_Type\_Definition: GFS Analysis Model

Pos 1-10 DATETIME

Definition: The datetime of the geophysical data contained in a GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER

Max Character Count: 10

Low Range: 0000010100 High Range: 9999123123

Pos 11-15 LAT

Definition: The latitude coordinate of the geophysical data contained in a GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 90.000 High Range: -90.000  
Units of Measure: Decimal Degrees

Pos 16-21 LON  
Definition: The longitude coordinate of the geophysical data contained in a GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 6  
Low Range: 180.000 High Range: -180.000  
Units of Measure: Decimal Degrees

Pos 22-24 LEVEL  
Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: CHAR  
Max Character Count: 3  
Domain Value: SFC

Pos 25-25 RAIN FLAG  
Definition: The code that denotes if rain occurred in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: CHAR  
Max Character Count: 1  
Domain Values: Y denotes occurrence  
N denotes nonoccurrence

Pos 26-26 SNOW FLAG  
Definition: The code that denotes if snow occurred in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: CHAR  
Max Character Count: 1  
Domain Values: Y denotes occurrence  
N denotes nonoccurrence

Pos 27-27 ICE PELLETT FLAG  
Definition: The code that denotes if ice pellets occurred in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: CHAR  
Max Character Count: 1  
Domain Values: Y denotes occurrence  
N denotes nonoccurrence

Pos 28-28 FREEZING RAIN FLAG  
Definition: The code that denotes if freezing rain occurred in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: CHAR  
Max Character Count: 1  
Domain Values: Y denotes occurrence  
N denotes nonoccurrence

Pos 29-36 CONV PRECIPITATION RATE  
Definition: The estimated rate of the liquid water equivalent of convective precipitation that falls over a period of time.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER SQUARE METER

Pos 37-44 PRECIPITATION RATE  
Definition: The estimated rate of the liquid water equivalent of precipitation that falls over a period of time.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER SQUARE METER

Pos 45-47 2m AGL RH  
Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 48-52 2m AGL TEMPERATURE  
Definition: The temperature of the air estimated by an AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 53-58 10m AGL u WIND COMP  
Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 59-64 10m AGL v WIND COMP  
Definition: The rate of wind movement in the North-South(v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is negative

Pos 65-69 WATER EQUIV SNOW DEPTH  
Definition: The estimated equivalent depth of the liquid content of solid precipitation that has accumulated on the ground

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 00000 High Range: 28570  
Units of Measure: MILLIMETERS

Pos 70-75 SEA LEVEL PRESSURE

Definition: The estimated air pressure relative to the mean sea level

Data Type: INTEGER

Max Character Count: 6

Low Range: 0600.0 High Range: 11000.0

Units of Measure: HECTOPASCALS

Pos 76-80 SOIL MOIST 0-10 cm

Definition: Mass of water to soil.

Data Type: INTEGER

Max Character Count: 7

Low Range: 0000.000 High Range: 9999.999

Units of Measure: GRAMS PER CUBIC METER

Pos 81-85 SOIL TEMP 0-10 cm

Definition: The estimated temperature of the soil.

Data Type: INTEGER

Max Character Count: 5

Low Range: 1630.0 High Range: 3360.0

Units of Measure: DEGREES KELVIN

Pos 86-90 SOIL MOIST 10-200 cm

Definition: Mass of water to soil.

Data Type: INTEGER

Max Character Count: 7

Low Range: 0000.000 High Range: 9999.999

Units of Measure: GRAMS PER CUBIC METER

Pos 91-95 SOIL TEMP 10-200 cm

Definition: The estimated temperature of the soil.

Data Type: INTEGER

Max Character Count: 5

Low Range: 1630.0 High Range: 3360.0

Units of Measure: DEGREES KELVIN

Pos 96-96 ICE COVERAGE

Definition: The code that denotes if there is ice coverage in a GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: CHAR

Max Character Count: 1

Domain Values: Y denotes occurrence

N denotes nonoccurrence

Pos 97-99 TOTAL CONVECTIVE CLOUD

Definition: The estimated rate of the sky dome that is covered by convective clouds.

Data Type: INTEGER

Max Character Count: 3

Low Range: 000 High Range: 100

Units of Measure: PERCENT

Pos 100-105 PRESS LOW CLD BASE

Definition: The estimated air pressure of an ATMOSPHERIC-PRESSURE-ANALYSIS-FORECAST of the lower surface of a cloud layer

Data Type: INTEGER

Max Character Count: 6

Low Range: 06000.0 High Range: 11000.0  
Units of Measure: HECTOPASCALS

Pos 106-108 LOW CLOUD COVER  
Definition: The estimated percentage of the sky dome  
that is covered by all low level clouds.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 109-114 PRESS MID CLD BASE  
Definition: The estimated air pressure of an  
ATMOSPHERIC-PRESSURE-ANALYSIS-FORECAST of the lower surface of a cloud layer

Data Type: INTEGER  
Max Character Count: 6  
Low Range: 06000.0 High Range: 11000.0  
Units of Measure: HECTOPASCALS

Pos 115-117 MID CLOUD COVER  
Definition: The estimated percentage of the sky dome  
that is covered by all middle level clouds

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 118-123 PRESS HIGH CLD BASE  
Definition: The estimated air pressure of an  
ATMOSPHERIC-PRESSURE-ANALYSIS-FORECAST of the lower surface of a cloud layer

Data Type: INTEGER  
Max Character Count: 6  
Low Range: 06000.0 High Range: 11000.0  
Units of Measure: HECTOPASCALS

Pos 124-126 HIGH CLOUD COVER  
Definition: The estimated percentage of the sky dome  
that is covered by all high level clouds.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 127-131 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 132-137 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999

Units of Measure: GEOPOTENTIAL METERS

Pos 138-141 LEVEL

Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER

Max Character Count: 4

Domain Value: 1000

Units of Measure: HECTOPASCALS

Pos 142-147 u WIND COMPONENT

Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER

Max Character Count: 5

Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND

COMMENT TEXT: Wind blowing from east to west is negative

Pos 148-153 v WIND COMPONENT

Definition: The rate of wind movement in the North-South(v) direction

Data Type: INTEGER

Max Character Count: 6

Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND

negative COMMENT TEXT: Wind blowing from north to south is

Pos 154-158 TEMPERATURE

Definition: The temperature of the air estimated by an AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER

Max Character Count: 5

Low Range: 1630.0 High Range: 3360.0

Units of Measure: DEGREES KELVIN

Pos 159-164 GEOPOTENTIAL HEIGHT

Definition: The height of a point in the atmosphere expressed in units proportional to the geopotential at that height

Data Type: INTEGER

Max Character Count: 5

Low Range: -0400 High Range: 99999

Units of Measure: GEOPOTENTIAL METERS

Pos 165-167 RELATIVE HUMIDITY

Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER

Max Character Count: 3

Low Range: 000 High Range: 100

Units of Measure: PERCENT

Pos 168-173 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 174-181 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 182-184 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 975  
Units of Measure: HECTOPASCALS

Pos 185-190 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 191-196 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 197-201 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 202-207 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 208-210 RELATIVE HUMIDITY

Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 211-216 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 217-224 cLOUD WATER

Definition: The estimated water vapor mass per volume area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 225-227 LEVEL

Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 950  
Units of Measure: HECTOPASCALS

Pos 228-233 u WIND COMPONENT

Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 234-239 v WIND COMPONENT

Definition: The rate of wind movement in the North-South (v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -20000 High Range: 20000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is negative

negative

Pos 240-244 TEMPERATURE

Definition: The temperature of the air estimated by an AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER

Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 245-250 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 251-253 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 254-259 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 260-267 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAM PER KILOGRAMS

Pos 268-270 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS-FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 925  
Units of Measure: HECTOPASCALS

Pos 271-276 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 277-282 v WIND COMPONENT

(v) direction Definition: The rate of wind movement in the North-South

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is

negative

Pos 283-287 TEMPERATURE

Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 288-293 GEOPOTENTIAL HEIGHT

Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 294-296 RELATIVE HUMIDITY

Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 297-302 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 303-310 cLOUD WATER

Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 311-313 LEVEL

Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 900

Units of Measure: HECTOPASCALS

Pos 314-319 u WIND COMPONENT

West(u) direction

Definition: The rate of wind movement in the East-

Data Type: INTEGER

Max Character Count: 6

Low Range: -20000 High Range: 20000

Units of Measure: METERS PER SECOND

COMMENT TEXT: Wind blowing from east to west is negative

Pos 320-325 v WIND COMPONENT

(v) direction

Definition: The rate of wind movement in the North-South

Data Type: INTEGER

Max Character Count: 6

Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND

COMMENT TEXT: Wind blowing from north to south is

negative

Pos 326-330 TEMPERATURE

AIR-TEMPERATURE-ANALYSIS-FORECAST  
Definition: The temperature of the air estimated by an

Data Type: INTEGER

Max Character Count: 5

Low Range: 1630.0 High Range: 3360.0

Units of Measure: DEGREES KELVIN

Pos 331-336 GEOPOTENTIAL HEIGHT

expressed in units proportional to the geopotential at that height

Data Type: INTEGER

Max Character Count: 5

Low Range: -0400 High Range: 99999

Units of Measure: GEOPOTENTIAL METERS

Pos 337-339 RELATIVE HUMIDITY

air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER

Max Character Count: 3

Low Range: 000 High Range: 100

Units of Measure: PERCENT

Pos 340-345 VERTICAL VELOCITY

air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER

Max Character Count: 6

Low Range: -200000 High Range: 200000

Units of Measure: HECTOPASCALS PER SECOND

COMMENT TEXT: Positive is down, negative is up

Pos 346-353 cLOUD WATER

area. Definition: The estimated water vapor mass per volume

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

data contained in GEOPHYSICAL-ANALYSIS\_FORECAST. Pos 354-356 LEVEL  
Definition: Indicator of the height of the geophysical

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 850  
Units of Measure: HECTOPASCALS

West(u) direction Pos 357-362 u WIND COMPONENT  
Definition: The rate of wind movement in the East-

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

(v) direction Pos 363-368 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South

negative Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is

AIR-TEMPERATURE-ANALYSIS-FORECAST Pos 369-373 TEMPERATURE  
Definition: The temperature of the air estimated by an

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

expressed in units proportional to the geopotential at that height Pos 374-379 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

air relative to the amount of saturated water vapor for the same parcel of air at the same temperature. Pos 380-382 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100

Units of Measure: PERCENT

Pos 383-388 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER

Max Character Count: 6

Low Range: -200000 High Range: 200000

Units of Measure: HECTOPASCALS PER SECOND

COMMENT TEXT: Positive is down, negative is up

Pos 389-396 cLOUD WATER

Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER

Max Character Count: 8

Low Range: 0000000.0 High Range: 9999999.9

Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 397-399 LEVEL

Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER

Max Character Count: 3

Domain Value: 800

Units of Measure: HECTOPASCALS

Pos 400-405 u WIND COMPONENT

Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER

Max Character Count: 5

Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND

COMMENT TEXT: Wind blowing from east to west is negative

Pos 406-411 v WIND COMPONENT

Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER

Max Character Count: 6

Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND

COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 412-416 TEMPERATURE

Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER

Max Character Count: 5

Low Range: 1630.0 High Range: 3360.0

Units of Measure: DEGREES KELVIN

Pos 417-422 GEOPOTENTIAL HEIGHT

Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 423-425 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 426-431 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 432-439 cLOUD WATER  
Definition: The estimated water vapor mass per volume area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 440-442 LEVEL  
Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 750  
Units of Measure: HECTOPASCALS

Pos 443-448 u WIND COMPONENT  
Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 449-454 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South (v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is negative

Pos 455-459 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 460-465 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 466-468 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 469-474 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 475-482 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 483-485 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 700  
Units of Measure: HECTOPASCALS

Pos 486-491 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

(v) direction  
Pos 492-497 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 498-502 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 503-508 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 509-511 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 512-517 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 518-525 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 526-528 LEVEL

Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 650  
Units of Measure: HECTOPASCALS

Pos 529-534 u WIND COMPONENT  
Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 535-540 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South(v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is negative

negative

Pos 541-545 TEMPERATURE  
Definition: The temperature of the air estimated by an AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 546-551 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 552-554 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 555-560 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000

Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 561-568 cLOUD WATER  
Definition: The estimated water vapor mass per volume

area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 569-571 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 600  
Units of Measure: HECTOPASCALS

Pos 572-577 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 578-583 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 584-588 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 589-594 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 595-597 RELATIVE HUMIDITY

Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 598-603 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 604-611 cLOUD WATER  
Definition: The estimated water vapor mass per volume area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 612-614 LEVEL  
Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 550  
Units of Measure: HECTOPASCALS

Pos 615-620 u WIND COMPONENT  
Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 621-626 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South (v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is negative

Pos 627-631 TEMPERATURE  
Definition: The temperature of the air estimated by an AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5

Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 632-637 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 638-640 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 641-646 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 647-654 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 655-657 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 500  
Units of Measure: HECTOPASCALS

Pos 658-663 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 664-669 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is

negative

Pos 670-674 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 675-680 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 681-683 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 684-689 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 690-697 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 698-700 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 450  
Units of Measure: HECTOPASCALS

Pos 701-706 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 707-712 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction  
Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 713-717 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 718-723 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 724-726 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.  
Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 727-732 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST  
Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 733-740 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.  
Data Type: INTEGER

Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 741-743 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 400  
Units of Measure: HECTOPASCALS

Pos 744-749 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 750-755 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 756-760 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 761-766 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 767-769 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 770-775 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST  
Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 776-783 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 784-786 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 350  
Units of Measure: HECTOPASCALS

Pos 787-792 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 793-798 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 799-803 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 804-809 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999

Units of Measure: GEOPOTENTIAL METERS

Pos 810-812 RELATIVE HUMIDITY

Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 813-818 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 819-826 cLOUD WATER

Definition: The estimated water vapor mass per volume area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 827-829 LEVEL

Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 300  
Units of Measure: HECTOPASCALS

Pos 830-835 u WIND COMPONENT

Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 836-841 v WIND COMPONENT

Definition: The rate of wind movement in the North-South (v) direction

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is negative

Pos 842-846 TEMPERATURE

Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 847-852 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 853-855 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 856-861 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 862-869 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 870-872 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 250  
Units of Measure: HECTOPASCALS

Pos 873-878 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 879-884 v WIND COMPONENT

(v) direction

Definition: The rate of wind movement in the North-South

Data Type: INTEGER

Max Character Count: 5

Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND

negative

COMMENT TEXT: Wind blowing from north to south is

Pos 885-889 TEMPERATURE

Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER

Max Character Count: 5

Low Range: 1630.0 High Range: 3360.0

Units of Measure: DEGREES KELVIN

Pos 890-895 GEOPOTENTIAL HEIGHT

Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER

Max Character Count: 5

Low Range: -0400 High Range: 99999

Units of Measure: GEOPOTENTIAL METERS

Pos 896-898 RELATIVE HUMIDITY

Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER

Max Character Count: 3

Low Range: 000 High Range: 100

Units of Measure: PERCENT

Pos 899-904 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER

Max Character Count: 6

Low Range: -200000 High Range: 200000

Units of Measure: HECTOPASCALS PER SECOND

COMMENT TEXT: Positive is down, negative is up

Pos 905-912 cLOUD WATER

Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER

Max Character Count: 8

Low Range: 0000000.0 High Range: 9999999.9

Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 913-915 LEVEL

Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER

Max Character Count: 3  
Domain Value: 200  
Units of Measure: HECTOPASCALS

Pos 916-921 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 922-927 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 928-932 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 933-938 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 939-941 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 942-947 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 948-955 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 956-958 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 150  
Units of Measure: HECTOPASCALS

Pos 959-964 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 965-970 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 971-975 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 976-981 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 982-984 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3

Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 985-990 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 991-998 cLOUD WATER  
Definition: The estimated water vapor mass per volume  
area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 999-1001 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: 100  
Units of Measure: HECTOPASCALS

Pos 1002-1007 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1008-1013 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 1014-1018 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1019-1024 GEOPOTENTIAL HEIGHT

Definition: The height of a point in the atmosphere expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1025-1027 RELATIVE HUMIDITY

Definition: The percentage of water vapor in a parcel of air relative to the amount of saturated water vapor for the same parcel of air at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 1028-1033 VERTICAL VELOCITY

Definition: The estimated vertical rate of movement of air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 1034-1041 cLOUD WATER

Definition: The estimated water vapor mass per volume area.

Data Type: INTEGER  
Max Character Count: 8  
Low Range: 0000000.0 High Range: 9999999.9  
Units of Measure: KILOGRAMS PER KILOGRAMS

Pos 1042-1043 LEVEL

Definition: Indicator of the height of the geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 2  
Domain Value: 70  
Units of Measure: HECTOPASCALS

Pos 1044-1049 u WIND COMPONENT

Definition: The rate of wind movement in the East-West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1050-1055 v WIND COMPONENT

Definition: The rate of wind movement in the North-South (v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND

negative COMMENT TEXT: Wind blowing from north to south is

Pos 1056-1060 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1061-1066 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -0400 High Range: 99999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1067-1068 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 2  
Domain Value: 50  
Units of Measure: HECTOPASCALS

Pos 1069-1074 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1075-1080 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is

negative

Pos 1081-1085 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1086-1091 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -04000 High Range: 999999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1067-1068 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 2  
Domain Value: 50  
Units of Measure: HECTOPASCALS

Pos 1069-1074 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1075-1080 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 1081-1085 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1086-1091 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -04000 High Range: 999999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1092-1093 LEVEL  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 2  
Domain Value: 30  
Units of Measure: HECTOPASCALS

Pos 1094-1099 u WIND COMPONENT

West(u) direction

Definition: The rate of wind movement in the East-

Data Type: INTEGER  
 Max Character Count: 5  
 Low Range: -2000 High Range: 2000  
 Units of Measure: METERS PER SECOND  
 COMMENT TEXT: Wind blowing from east to west is negative

Pos 1100-1105 v WIND COMPONENT

(v) direction

Definition: The rate of wind movement in the North-South

Data Type: INTEGER  
 Max Character Count: 5  
 Low Range: -2000 High Range: 2000  
 Units of Measure: METERS PER SECOND  
 COMMENT TEXT: Wind blowing from north to south is

negative

Pos 1106-1110 TEMPERATURE

AIR-TEMPERATURE-ANALYSIS-FORECAST

Definition: The temperature of the air estimated by an

Data Type: INTEGER  
 Max Character Count: 5  
 Low Range: 1630.0 High Range: 3360.0  
 Units of Measure: DEGREES KELVIN

Pos 1111-1116 GEOPOTENTIAL HEIGHT

expressed in units proportional to the geopotential at that height

Definition: The height of a point in the atmosphere

Data Type: INTEGER  
 Max Character Count: 6  
 Low Range: -04000 High Range: 999999  
 Units of Measure: GEOPOTENTIAL METERS

Pos 1117-1118 LEVEL

data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Definition: Indicator of the height of the geophysical

Data Type: INTEGER  
 Max Character Count: 2  
 Domain Value: 20  
 Units of Measure: HECTOPASCALS

Pos 1119-1124 u WIND COMPONENT

West(u) direction

Definition: The rate of wind movement in the East-

Data Type: INTEGER  
 Max Character Count: 5  
 Low Range: -2000 High Range: 2000  
 Units of Measure: METERS PER SECOND  
 COMMENT TEXT: Wind blowing from east to west is negative

Pos 1125-1130 v WIND COMPONENT

(v) direction

Definition: The rate of wind movement in the North-South

Data Type: INTEGER  
 Max Character Count: 5  
 Low Range: -2000 High Range: 2000

Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is

negative

Pos 1131-1135 TEMPERATURE

Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1136-1141 GEOPOTENTIAL HEIGHT

Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -04000 High Range: 999999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1142-1143 LEVEL

Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 2  
Domain Value: 10  
Units of Measure: HECTOPASCALS

Pos 1144-1149 u WIND COMPONENT

Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1150-1155 v WIND COMPONENT

Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is

negative

Pos 1156-1160 TEMPERATURE

Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1161-1166 GEOPOTENTIAL HEIGHT

Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -04000 High Range: 999999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1167-1169 TROPOPAUSE  
Definition: Indicator of the height of the geophysical  
data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: TRO

Pos 1170-1175 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1176-1181 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction

Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 1182-1186 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1187-1192 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -04000 High Range: 999999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1193-1196 PRESSURE  
Definition: The estimated atmospheric pressure at the  
lowest tropopause level

Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0500 High Range: 5000  
Units of Measure: HECTOPASCALS

Pos 1198-1199 LEVEL  
Definition: Indicator of the maximum height of the  
geophysical data contained in GEOPHYSICAL-ANALYSIS\_FORECAST.  
Data Type: INTEGER  
Max Character Count: 3  
Domain Value: MAX

Pos 1200-1205 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1206-1211 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 1212-1216 TEMPERATURE  
Definition: The temperature of the air estimated by an  
AIR-TEMPERATURE-ANALYSIS-FORECAST  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: 1630.0 High Range: 3360.0  
Units of Measure: DEGREES KELVIN

Pos 1217-1222 GEOPOTENTIAL HEIGHT  
Definition: The height of a point in the atmosphere  
expressed in units proportional to the geopotential at that height  
Data Type: INTEGER  
Max Character Count: 6  
Low Range: -04000 High Range: 999999  
Units of Measure: GEOPOTENTIAL METERS

Pos 1223-1226 PRESSURE  
Definition: The estimated atmospheric pressure at the  
maximum height of the geophysical data contained in GEOPHYSICAL-  
ANALYSIS\_FORECAST  
Data Type: INTEGER  
Max Character Count: 4  
Low Range: 0500 High Range: 5000  
Units of Measure: HECTOPASCALS

Pos 1227-1229 LEVEL  
Definition: The difference between the ground and 30  
Hectopascals  
Data Type: INTEGER  
Max Character Count: 3  
Domain Value: G30

Pos 1230-1235 u WIND COMPONENT  
Definition: The rate of wind movement in the East-  
West(u) direction  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from east to west is negative

Pos 1236-1241 v WIND COMPONENT  
Definition: The rate of wind movement in the North-South  
(v) direction  
Data Type: INTEGER  
Max Character Count: 5  
Low Range: -2000 High Range: 2000  
Units of Measure: METERS PER SECOND  
COMMENT TEXT: Wind blowing from north to south is  
negative

Pos 1242-1244 RELATIVE HUMIDITY  
Definition: The percentage of water vapor in a parcel of  
air relative to the amount of saturated water vapor for the same parcel of air  
at the same temperature.

Data Type: INTEGER  
Max Character Count: 3  
Low Range: 000 High Range: 100  
Units of Measure: PERCENT

Pos 1245-1247 LEVEL  
Definition: The relation between layer and level for  
pressure.

Data Type: INTEGER  
Max Character Count: 3  
Domain Value: SIG  
Units of Measure: HECTOPASCALS

Pos 1248-1253 VERTICAL VELOCITY  
Definition: The estimated vertical rate of movement of  
air relative to pressure coordinated for a WIND-ANALYSIS-FORECAST

Data Type: INTEGER  
Max Character Count: 6  
Low Range: -200000 High Range: 200000  
Units of Measure: HECTOPASCALS PER SECOND  
COMMENT TEXT: Positive is down, negative is up

Pos 1254-1254 END OF RECORD  
Definition: Blank space  
Data Type: Blank space  
Max Character Count: 1  
Domain Value: BLANK SPACE

Entity\_Type\_Definition\_Source: AFCCC

Overview\_Description:

Entity\_and\_Attribute\_Overview: Due to the volume of the data,  
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require.

Entity\_and\_Attribute\_Detail\_Citation: None

Distribution\_Information:

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Hours\_of\_Service: 0730-1630 Eastern Time M-F

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Metadata\_Standard\_Name: FGDC-Content Standards for Digital Geospatial

Metadata.

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Metadata\_Security\_Classification\_System: DoD  
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