Title: Air and soil temperature data from the Reference Stand network at the Andrews Experimental Forest, 1971 to present

Abstract:

The current network of temperature measurement sites are designed to represent spatial variability of air and soil temperature in rugged mountain topography, and serve as second-level stations to capture specific microclimate temperatures in conjunction with a network of Benchmark Meteorological Stations (MS001). The air and soil thermograph network has been reduced from the historical network of 37 sites originally established. Currently there are 10 measurement sites with two of these sites measuring relative humidity in addition to air and soil temperature. An original network of 19 sites (RS01-RS19) were established during the International Biome Program in the early 1970's. Emphasis on phenology, plant moisture stress, and leaf nutrient content led to extending this network of air and soil temperature measurement. A plant community classification system (Dyrness et al., 1971) was used as a primary means of stratification, and a set of permanent vegetation plots (Reference Stands) was installed to represent forest communities with distinct vegetation and hypothesized different environments (Dyrness et al., 1974). A thermograph network was installed within the reference stands in the early 1970's (Zobel et al., 1974), and vegetation standing crop, tree growth and mortality, and plant succession were also measured. The majority of these sites were established to monitor micro-meteorological data under the canopy. The purpose of this network was to provide air and soil temperature data for modeling photosynthesis, respiration, phenology, and decomposition, and to measure environmental gradients.

Keywords: Air temperature; Climate data; Climate/Meteorology; Ecosystem monitoring; Environmental indexes and variables; Meteorology; Microclimate; Moisture stress; Reference stands; Soil temperature; Succession; Temperature growth index; Dew point temperature; Disturbance; Organic matter; Primary production; Meteorology; Climatology; Dew point; Microclimate; Water content; Temperature; Air temperature; Soil temperature; Environmental indexes; Reference stands; Succession; Primary production; Growth; Disturbance; Monitoring; Ecosystems; Moisture stress;

Date data commenced: 1971-03-17
Date data terminated: 2019-10-01
Principal Investigator: Christopher Daly

List of Entities:

1. Air temperature (Daily)
2. Relative Humidity (Daily)
11. Air temperature (Finest resolution, e.g., hourly, 5 minute)
12. Relative Humidity (Finest resolution, e.g., hourly, 5 minute)
21. Soil temperature (Daily)
31. Soil temperature (Finest resolution, e.g., 6-hourly, 5 minute)
40. Legacy data: Temperature growth index, plant stress, and dew point temperature

Attribute List:

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<th>Attribute</th>
<th>Description</th>
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<tr>
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<td>Y numeric(5,1) range</td>
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#### Relative Humidity (Daily)

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- **SITECODE**: N N char(6) place
- **RELHUM_METHOD**: N N char(6) enum
- **HEIGHT**: N N numeric(4,0) range 85.0000 435.0000 cm
- **QC_LEVEL**: N N char(2) enum
- **PROBE_CODE**: Y N char(8) enum
- **DATE**: Y N datetime range 7/19/2004 10/24/2017 AM YYYY-MM-DD
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- **RELHUM_MINTIMEN**: Y N char(4) freetext HHMM
- **RELHUM_MIN_DAY**: Y N numeric(5,1) range 5.0000 100.0000 %
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- **RELHUM_MINTIME**: Y N char(4) freetext
- **EVENT_CODE**: N N char(6) enum

#### Air temperature (Finest resolution, e.g., hourly, 5 minute)

**Attribute List:**
- **DBCODE**: N N char(5) enum
- **ENTITY**: N N numeric(2,0) range 11.0000 11.0000 number
- **SITECODE**: N N char(6) place

*Sensors discontinued Oct 24 2017*

*Data is provided through an interactive application (<i>GLITCH</i>)*
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### 12. Relative Humidity (Finest resolution, e.g., hourly, 5 minute)

Data is provided through an interactive application (GLITCH). Sensors discontinued Oct 24 2017.

**Attribute List:**

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<td>enum</td>
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### 21. Soil temperature (Daily)

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<td>place</td>
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<td>char(6)</td>
<td>enum</td>
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<td>DEPTH</td>
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<td>range 10.0000-100.0000 cm</td>
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<td>char(2)</td>
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<td>N</td>
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<td>datetime</td>
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## Soil Temperature

Soil temperature (Finest resolution, e.g., 6-hourly, 5 minute)

Data is provided through an interactive application (<i>GLITCH</i>)

### Attribute List:

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<tr>
<td>DEPTH</td>
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<td>numeric</td>
<td>range 10.0000 30.0000 cm</td>
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<td>char(2)</td>
<td>enum</td>
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## Legacy Data: Temperature Growth Index, Plant Stress, and Dew Point Temperature

Plant stress and dew point temperature only collected 1973-1976.

### Attribute List:

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Attributes Definitions:

AIRTEMP_MAX_DAY
Maximum air temperature for the day

AIRTEMP_MAX_FLAG
Maximum air temperature flag

AIRTEMP_MAXTIME
Time of day (HHMM) in Pacific Standard Time (PST) of maximum air temperature

AIRTEMP_MEAN
Mean air temperature over the last interval (e.g., 5 minutes)

AIRTEMP_MEAN_DAY
Mean air temperature for the day

AIRTEMP_MEAN_FLAG
Mean air temperature flag

AIRTEMP_METHOD
An indication of the general methodology and instrumentation used to collect this air temperature data

AIRTEMP_MIN_DAY
Minimum air temperature for the day

AIRTEMP_MIN_FLAG
Minimum air temperature flag

AIRTEMP_MINTIME
Time of day (HHMM) in Pacific Standard Time (PST) of minimum air temperature

DATE
Date of measurement

DATE_TIME
Date and time (PST) of probe reading

DBCODE
FSDB database code

DEPTH
Depth of sensor from ground surface

ENTITY
Entity number

EVENT_CODE
Type of comment that exists independently for any event, disruption in protocol, or unusual conditions that occur at the given date or time and may have an effect on the data values

EXPOSURE
Instrument exposure (open or closed canopy)

FD1
Mean daytime dew point temperature flag

FD2
Mean nighttime dew point temperature flag

FD3
Maximum dew point temperature flag

FD4
Minimum dew point temperature flag

HEIGHT
Height of sensor from ground surface

MAXDEW
Daily maximum dew point temperature

MEANDEWDAY
Mean daytime dew point temperature

MEANDEWNIT
Mean nighttime dew point temperature

MINDEW
Daily minimum dew point temperature

PLANTSTRES
Plant moisture stress (measured until 1976)

PROBE_CODE
Probe number code indicates the measurement type, site, and sensor number (e.g., AIRRS201)

PS_FLAG
Plant moisture stress flag

QC_LEVEL
Quality control flag indicates level of quality checking performed including an indication of "provisional" data

RELHUM_MAX_DAY
Maximum relative humidity for the day

RELHUM_MAX_FLAG
Maximum relative humidity flag
RELHUM_MAXTIME
  Time of day (HHMM) in Pacific Standard Time (PST) of maximum relative humidity

RELHUM_MEAN
  Mean relative humidity over the last interval (e.g., 5 minutes)

RELHUM_MEAN_DAY
  Mean relative humidity for the day

RELHUM_MEAN_FLAG
  Mean relative humidity flag

RELHUM_METHOD
  An indication of the general methodology and instrumentation used to collect this relative humidity data

RELHUM_MIN_DAY
  Minimum relative humidity for the day

RELHUM_MIN_FLAG
  Minimum relative humidity flag

RELHUM_MINTIME
  Time of day (HHMM) in Pacific Standard Time (PST) of minimum relative humidity

SITECODE
  Site code for the meteorological measurement station

SOILTEMP_MAX_DAY
  Maximum soil temperature for the day

SOILTEMP_MAX_FLAG
  Maximum soil temperature flag

SOILTEMP_MAXTIME
  Time of day (HHMM) in Pacific Standard Time (PST) of maximum soil temperature

SOILTEMP_MEAN
  Mean soil temperature over the past interval (e.g., 5 minutes)

SOILTEMP_MEAN_DAY
  Mean soil temperature for the day

SOILTEMP_MEAN_FLAG
  Mean soil temperature flag

SOILTEMP_METHOD
  An indication of the general methodology and instrumentation used to collect this soil temperature data

SOILTEMP_MIN_DAY
  Minimum soil temperature for the day

SOILTEMP_MIN_FLAG
  Minimum soil temperature flag

SOILTEMP_MINTIME
Time of day (HHMM) in Pacific Standard Time (PST) of minimum soil temperature

TGI

Temperature-growth index (number from 0-10, from table, computed from daytime mean air and soil (20cm) temperatures. Ten indicates perfect conditions.)

TGI_FLAG

Temperature-growth index flag

Enumerated Domains:

Enumerated Domain for Attribute: AIRTEMP_MEAN_FLAG
- B: Sensor buried in snow; value represents snow temperature
- E: Estimated value
- M: Missing value
- Q: Questionable value
- S: Daily value based on sunrise to sunrise (not midnight to midnight)
- A: Accepted value has passed all QC tests applied as represented by the quality level

Enumerated Domain for Attribute: AIRTEMP_MAX_FLAG
- B: Sensor buried in snow; value represents snow temperature
- E: Estimated value
- M: Missing value
- Q: Questionable value
- S: Daily value based on sunrise to sunrise (not midnight to midnight)
- A: Accepted value has passed all QC tests applied as represented by the quality level
- H: Daily value based on the maximum hourly mean value (Check airtemp_method code)

Enumerated Domain for Attribute: AIRTEMP_MIN_FLAG
- B: Sensor buried in snow; value represents snow temperature
- E: Estimated value
- M: Missing value
- Q: Questionable value
- S: Daily value based on sunrise to sunrise (not midnight to midnight)
- A: Accepted value has passed all QC tests applied as represented by the quality level
- H: Daily value based on the minimum hourly mean value (Check airtemp_method code)

Enumerated Domain for Attribute: PROBE_CODE
- AIRO1301: Air temperature at RS130__, probe no. 01 at height 435 cm, discontinued 2003
- AIRR0101: Air temperature at RS01___, probe no. 01 at height 100 cm, discontinued 1995
- AIRR0201: Air temperature at RS02___, probe no. 01 at height 225 cm, discontinued 2015
- AIRR0301: Air temperature at RS03___, probe no. 01 at height 235 cm, discontinued 1995
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<td>Air temperature at RS05__, probe no. 01 at height 200 cm, discontinued 2017</td>
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<td>AIRR8901</td>
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<td>AIRT3101</td>
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<td>AIRT3201</td>
<td>Air temperature at TS32__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRT3301</td>
<td>Air temperature at TS33__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRT3401</td>
<td>Air temperature at TS34__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>Air temperature at TS35__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRT3601</td>
<td>Air temperature at TS36__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRT3701</td>
<td>Air temperature at TS37__, probe no. 01 at height 100 cm, discontinued 1976</td>
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<td>AIRR3801</td>
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<td>AIRT7401</td>
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<td>AIRT7501</td>
<td>Air temperature at TS75__, probe no. 01 at height 100 cm, discontinued 1990</td>
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<td>AIRT7601</td>
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<td>Air temperature at TS77__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>SOIO1302</td>
<td>Soil temperature at RS13O_, probe no. 02 at depth 20 cm, discontinued 2003</td>
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SOIR0102  Soil temperature at RS01__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0201  Soil temperature at RS02__, probe no. 01 at depth 10 cm
SOIR0202  Soil temperature at RS02__, probe no. 02 at depth 20 cm
SOIR0203  Soil temperature at RS02__, probe no. 03 at depth 30 cm
SOIR0302  Soil temperature at RS03__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0401  Soil temperature at RS04__, probe no. 01 at depth 10 cm
SOIR0402  Soil temperature at RS04__, probe no. 02 at depth 20 cm
SOIR0403  Soil temperature at RS04__, probe no. 03 at depth 30 cm
SOIR0501  Soil temperature at RS05__, probe no. 01 at depth 10 cm
SOIR0502  Soil temperature at RS05__, probe no. 02 at depth 20 cm
SOIR0503  Soil temperature at RS05__, probe no. 03 at depth 30 cm
SOIR0602  Soil temperature at RS06__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR0702  Soil temperature at RS07__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0802  Soil temperature at RS08__, probe no. 02 at depth 20 cm, discontinued 1973
SOIR0902  Soil temperature at RS09__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR1001  Soil temperature at RS10__, probe no. 01 at depth 10 cm
SOIR1002  Soil temperature at RS10__, probe no. 02 at depth 20 cm
SOIR1003  Soil temperature at RS10__, probe no. 03 at depth 30 cm
SOIR1102  Soil temperature at RS11__, probe no. 02 at depth 20 cm, discontinued 1977
SOIR1201  Soil temperature at RS12__, probe no. 01 at depth 10 cm
SOIR1202  Soil temperature at RS12__, probe no. 02 at depth 20 cm
SOIR1203  Soil temperature at RS12__, probe no. 03 at depth 30 cm
SOIR1302  Soil temperature at RS13__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1401  Soil temperature at RS14__, probe no. 01 at depth 10 cm, discontinued 2003
SOIR1402  Soil temperature at RS14__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1403  Soil temperature at RS14__, probe no. 03 at depth 30 cm, discontinued 2003
SOIR1502  Soil temperature at RS15__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1602  Soil temperature at RS16__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1702  Soil temperature at RS17__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR1802  Soil temperature at RS18__, probe no. 02 at depth 20 cm, discontinued 1974
SOIR1902  Soil temperature at RS19__, probe no. 02 at depth 20 cm, discontinued 1973
SOIR2001  Soil temperature at RS20__, probe no. 01 at depth 10 cm
SOIR2002  Soil temperature at RS20__, probe no. 02 at depth 20 cm
SOIR2003  Soil temperature at RS20__, probe no. 03 at depth 30 cm
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<td>SOIR2403</td>
<td>Soil temperature at RS24__, probe no. 03 at depth 30 cm, discontinued 2004</td>
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<td>SOIR2601</td>
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<td>SOIR2602</td>
<td>Soil temperature at RS26__, probe no. 02 at depth 20 cm</td>
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<td>SOIR2603</td>
<td>Soil temperature at RS26__, probe no. 03 at depth 30 cm</td>
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<td>SOIR8601</td>
<td>Soil temperature at RS86__, probe no. 01 at depth 10 cm</td>
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<td>SOIR8602</td>
<td>Soil temperature at RS86__, probe no. 02 at depth 20 cm</td>
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<td>SOIR8901</td>
<td>Soil temperature at RS89__, probe no. 01 at depth 10 cm</td>
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<td>SOIR8902</td>
<td>Soil temperature at RS89__, probe no. 02 at depth 20 cm</td>
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<td>SOIR8903</td>
<td>Soil temperature at RS89__, probe no. 03 at depth 30 cm</td>
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<td>SOIT3102</td>
<td>Soil temperature at TS31__, probe no. 02 at depth 20 cm, discontinued 1976</td>
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<td>SOIT3202</td>
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<td>Soil temperature at TS33__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3402</td>
<td>Soil temperature at TS34__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3502</td>
<td>Soil temperature at TS35__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3602</td>
<td>Soil temperature at TS36__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3702</td>
<td>Soil temperature at TS37__, probe no. 02 at depth 20 cm, discontinued 1976</td>
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<td>SOIR3801</td>
<td>Soil temperature at RS38__, probe no. 01 at depth 10 cm</td>
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<td>SOIR3802</td>
<td>Soil temperature at RS38__, probe no. 02 at depth 20 cm</td>
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<td>SOIR3803</td>
<td>Soil temperature at RS38__, probe no. 03 at depth 30 cm</td>
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<td>SOIT7402</td>
<td>Soil temperature at TS74__, probe no. 02 at depth 20 cm, discontinued 1990</td>
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<td>SOIT7502</td>
<td>Soil temperature at TS75__, probe no. 02 at depth 20 cm, discontinued 1990</td>
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<td>Soil temperature at TS76__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>RELR8601</td>
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<td>RELR8901</td>
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<td>AIRR0202</td>
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<td>AIRR0203</td>
<td>Air temperature at RS02__, probe no. 03 at height 225 cm</td>
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<td>Air temperature at RS04__, probe no. 02 at height 325 cm</td>
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<td>Air temperature at RS04__, probe no. 03 at height 325 cm</td>
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<td>AIRR1202</td>
<td>Air temperature at RS12__, probe no. 02 at height 190 cm</td>
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<td>AIRR1203</td>
<td>Air temperature at RS12__, probe no. 03 at height 190 cm</td>
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AIRR2002 Air temperature at RS20__, probe no. 02 at height 220 cm
AIRR2003 Air temperature at RS20__, probe no. 03 at height 220 cm
AIRR2602 Air temperature at RS26__, probe no. 02 at height 200 cm
AIRR2603 Air temperature at RS26__, probe no. 03 at height 200 cm
AIRR0502 Air temperature at RS05__, probe no. 02 at height 200 cm
AIRR0503 Air temperature at RS05__, probe no. 03 at height 200 cm
AIRR1002 Air temperature at RS10__, probe no. 02 at height 200 cm
AIRR1003 Air temperature at RS10__, probe no. 03 at height 200 cm
AIRR3802 Air temperature at RS38__, probe no. 02 at height 100 cm
AIRR3803 Air temperature at RS38__, probe no. 03 at height 100 cm
AIRR8602 Air temperature at RS86__, probe no. 02 at height 235 cm
AIRR8603 Air temperature at RS86__, probe no. 03 at height 235 cm
AIRR8902 Air temperature at RS89__, probe no. 02 at height 285 cm
AIRR8903 Air temperature at RS89__, probe no. 03 at height 285 cm

Enumerated Domain for Attribute: DBCODE
MS005 FSDB Database Code

Enumerated Domain for Attribute: AIRTEMP_METHOD
AIR504 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 60 cm height in small shelter on tree and corrected to standard rdg.
AIR505 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 65 cm height in small shelter on tree and corrected to standard rdg.
AIR506 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 80 cm height in small shelter on tree and corrected to standard rdg.
AIR507 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 85 cm height in small shelter on tree and corrected to standard rdg.
AIR508 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 100 cm height in small shelter on tree and corrected to standard rdg.
AIR509 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 160 cm height in small shelter on tree and corrected to standard rdg.
AIR510 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 180 cm height in small shelter on tree and corrected to standard rdg.
AIR511 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 190 cm height in small shelter on tree and corrected to standard rdg.
AIR512 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer
AIR513 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 235 cm height in small shelter on tree and corrected to standard rdg.

AIR514 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 300 cm height in small shelter on tree and corrected to standard rdg.

AIR515 Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 500 cm height in small shelter on tree and corrected to standard rdg.

AIR501 Mean, max and min daily (sunrise to sunrise) air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 100 cm height in small shelter and corrected.

AIR502 Mean, max and min daily (sunrise to sunrise) air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 200 cm height in small shelter and corrected.

AIR503 Mean, max and min daily (sunrise to sunrise) air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 300 cm height in small shelter and corrected.

AIR448 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 190 cm height; mean temperature is output every 5 minutes

AIR449 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean temperature is output every 5 minutes

AIR450 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 220 cm height; mean temperature is output every 5 minutes

AIR451 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 225 cm height; mean temperature is output every 5 minutes

AIR452 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 325 cm height; mean temperature is output every 5 minutes

AIR444 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 100 cm height; mean temperature is output every 60 minutes

AIR445 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean temperature is output every 60 minutes

AIR440 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 85 cm height; mean temperature is output every 60 minutes

AIR441 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 100 cm height; mean temperature is output every 60 minutes

AIR442 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 200 cm height; mean temperature is output every 60 minutes

AIR443 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 235 cm height; mean temperature is output every 60 minutes

AIR446 Air temperature is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 235 cm height; mean temperature is output every 60 minutes

AIR447 Air temperature is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 285 cm height; mean temperature is output every 60 minutes

AIR435 Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 190 cm height with a...
AIR436  Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 200 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR437  Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 220 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR438  Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 225 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR439  Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 325 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR516  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 100 cm height (Daily output only)

AIR517  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 190 cm height (Daily output only)

AIR518  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 200 cm height (Daily output only)

AIR519  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 220 cm height (Daily output only)

AIR520  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 225 cm height (Daily output only)

AIR521  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 275 cm height (Daily output only)

AIR522  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 285 cm height (Daily output only)

AIR523  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 300 cm height (Daily output only)

AIR524  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 325 cm height (Daily output only)

AIR525  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 325 cm height (Daily output only)

AIR526  Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 400 cm height (Daily output only)

AIR427  Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 190 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR428  Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 200 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR429  Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 220 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes
AIR430 Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 225 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR431 Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 275 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR432 Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 285 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR433 Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 325 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR434 Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 435 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR527 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 190 cm height (See Method AIR427)

AIR528 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 200 cm height (See Method AIR428)

AIR529 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 220 cm height (See Method AIR429)

AIR530 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 225 cm height (See Method AIR430)

AIR531 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 275 cm height (See Method AIR431)

AIR532 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 285 cm height (See Method AIR432)

AIR533 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 325 cm height (See Method AIR433)

AIR534 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 435 cm height (See Method AIR434)

AIR535 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 190 cm height (See Method AIR435)

AIR536 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 200 cm height (See Method AIR436)

AIR537 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 220 cm height (See Method AIR437)

AIR538 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 225 cm height (See Method AIR438)

AIR539 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 325 cm height (See Method AIR439)
Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 85 cm height (See Method AIR440)

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 100 cm height (See Method AIR441)

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 200 cm height (See Method AIR442)

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 100 cm height (See Method AIR443)

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height (See Method AIR444)

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 235 cm height (See Method AIR445)

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 285 cm height (See Method AIR446)

Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 190 cm height (See AIR447)

Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 200 cm height (See AIR448)

Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 220 cm height (See AIR449)

Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 225 cm height (See AIR450)

Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 190 cm height (See AIR451)

Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 200 cm height (See AIR452)

Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 220 cm height (See AIR453)
Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 325cm (See Method AIR439)

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 190 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings. CS Model 107; Gill radiation shield; 190 cm height (See method AIR453)

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 220 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 325 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 255 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 285 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 225 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 225 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 325 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 255 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 285 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 225 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 225 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 325 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 255 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 285 cm height; mean, min, max temperature is output every 5 minutes

Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 100 cm height; mean, min, max temperature is output every 5 minutes

Enumerated Domain for Attribute: QC_LEVEL
1A Data is published and unlikely to change - automated range checking and manual review has been conducted. Quality is indicated in data value qualifier flags.

1D Data is published and unlikely to change - data is derived or aggregated from published data of level 1A.

1P Data is provisional and subject to revision - preliminary quality checks have been performed.

2A Data is published and unlikely to change - Level 1A data has been modified such that data gaps may be filled or problem data may be removed.

2D Data is published and unlikely to change - data is derived or aggregated from published data of level 2A.

Enumerated Domain for Attribute: EVENT_CODE
- CALIBR: Associated with the inspection or replacement of sensors for calibration
- INSREM: Sensor is installed or removed
- LOGGER: Change in data logger, data logger program, or wiring
- MAINTE: A maintenance event has occurred
- METHOD: Change in data collection method
- NA: No event is reported (not applicable)
- QUALTY: Event may directly affect data quality
- WEATHR: A weather event has occurred that may affect reading

Enumerated Domain for Attribute: PROBE_CODE
- AIRO1301: Air temperature at RS13__, probe no. 01 at height 435 cm, discontinued 2003
- AIRR0101: Air temperature at RS01__, probe no. 01 at height 100 cm, discontinued 1995
- AIRR0201: Air temperature at RS02__, probe no. 01 at height 225 cm, discontinued 2015
- AIRR0301: Air temperature at RS03__, probe no. 01 at height 235 cm, discontinued 1995
- AIRR0401: Air temperature at RS04__, probe no. 01 at height 325 cm, discontinued 2015
- AIRR0501: Air temperature at RS05__, probe no. 01 at height 200 cm, discontinued 2015
- AIRR0601: Air temperature at RS06__, probe no. 01 at height 100 cm, discontinued 1975
- AIRR0701: Air temperature at RS07__, probe no. 01 at height 100 cm, discontinued 1995
- AIRR0801: Air temperature at RS08__, probe no. 01 at height 100 cm, discontinued 1973
- AIRR0901: Air temperature at RS09__, probe no. 01 at height 100 cm, discontinued 1975
- AIRR1001: Air temperature at RS10__, probe no. 01 at height 200 cm, discontinued 2017
- AIRR1101: Air temperature at RS11__, probe no. 01 at height 100 cm, discontinued 1977
- AIRR1201: Air temperature at RS12__, probe no. 01 at height 190 cm, discontinued 2015
- AIRR1301: Air temperature at RS13__, probe no. 01 at height 275 cm, discontinued 2003
- AIRR1401: Air temperature at RS14__, probe no. 01 at height 285 cm, discontinued 2003
- AIRR1501: Air temperature at RS15__, probe no. 01 at height 180 cm, discontinued 1994
- AIRR1601: Air temperature at RS16__, probe no. 01 at height 180 cm, discontinued 1994
- AIRR1701: Air temperature at RS17__, probe no. 01 at height 60 cm, discontinued 1995
- AIRR1801: Air temperature at RS18__, probe no. 01 at height 100 cm, discontinued 1974
AIRR1901  Air temperature at RS19__, probe no. 01 at height 100 cm, discontinued 1973
AIRR2001  Air temperature at RS20__, probe no. 01 at height 220 cm, discontinued 2015
AIRR2401  Air temperature at RS24__, probe no. 01 at height 220 cm, discontinued 2004
AIRR2601  Air temperature at RS26__, probe no. 01 at height 200 cm, discontinued 2015
AIRR8601  Air temperature at RS86__, probe no. 01 at height 235 cm, discontinued 2017
AIRR8901  Air temperature at RS89__, probe no. 01 at height 285 cm, discontinued 2017
AIRT3101  Air temperature at TS31__, probe no. 01 at height 100 cm, discontinued 1976
AIRT3201  Air temperature at TS32__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3301  Air temperature at TS33__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3401  Air temperature at TS34__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3501  Air temperature at TS35__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3601  Air temperature at TS36__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3701  Air temperature at TS37__, probe no. 01 at height 100 cm, discontinued 1976
AIRR3801  Air temperature at RS38__, probe no. 01 at height 100 cm, discontinued 2017
AIRT7401  Air temperature at TS74__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7501  Air temperature at TS75__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7601  Air temperature at TS76__, probe no. 01 at height 100 cm, discontinued 1975
AIRT7701  Air temperature at TS77__, probe no. 01 at height 100 cm, discontinued 1975
SOIO1302  Soil temperature at RS13O_, probe no. 02 at depth 20 cm, discontinued 2003
SOIR0102  Soil temperature at RS01__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0201  Soil temperature at RS02__, probe no. 01 at depth 10 cm
SOIR0202  Soil temperature at RS02__, probe no. 02 at depth 20 cm
SOIR0203  Soil temperature at RS02__, probe no. 03 at depth 30 cm
SOIR0302  Soil temperature at RS03__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0401  Soil temperature at RS04__, probe no. 01 at depth 10 cm
SOIR0402  Soil temperature at RS04__, probe no. 02 at depth 20 cm
SOIR0403  Soil temperature at RS04__, probe no. 03 at depth 30 cm
SOIR0501  Soil temperature at RS05__, probe no. 01 at depth 10 cm
SOIR0502  Soil temperature at RS05__, probe no. 02 at depth 20 cm
SOIR0503  Soil temperature at RS05__, probe no. 03 at depth 30 cm
SOIR0602  Soil temperature at RS06__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR0702  Soil temperature at RS07__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0802  Soil temperature at RS08__, probe no. 02 at depth 20 cm, discontinued 1973
SOIR0902  Soil temperature at RS09__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR1001  Soil temperature at RS10__, probe no. 01 at depth 10 cm
SOIR1002  Soil temperature at RS10__, probe no. 02 at depth 20 cm
SOIR1003  Soil temperature at RS10__, probe no. 03 at depth 30 cm
SOIR1102  Soil temperature at RS11__, probe no. 02 at depth 20 cm, discontinued 1977
SOIR1201  Soil temperature at RS12__, probe no. 01 at depth 10 cm
SOIR1202  Soil temperature at RS12__, probe no. 02 at depth 20 cm
SOIR1203  Soil temperature at RS12__, probe no. 03 at depth 30 cm
SOIR1302  Soil temperature at RS13__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1401  Soil temperature at RS14__, probe no. 01 at depth 10 cm, discontinued 2003
SOIR1402  Soil temperature at RS14__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1403  Soil temperature at RS14__, probe no. 03 at depth 30 cm, discontinued 2003
SOIR1502  Soil temperature at RS15__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1602  Soil temperature at RS16__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1702  Soil temperature at RS17__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR1802  Soil temperature at RS18__, probe no. 02 at depth 20 cm, discontinued 1974
SOIR1902  Soil temperature at RS19__, probe no. 02 at depth 20 cm, discontinued 1973
SOIR2001  Soil temperature at RS20__, probe no. 01 at depth 10 cm
SOIR2002  Soil temperature at RS20__, probe no. 02 at depth 20 cm
SOIR2003  Soil temperature at RS20__, probe no. 03 at depth 30 cm
SOIR2401  Soil temperature at RS24__, probe no. 01 at depth 10 cm, discontinued 2004
SOIR2402  Soil temperature at RS24__, probe no. 02 at depth 20 cm, discontinued 2004
SOIR2403  Soil temperature at RS24__, probe no. 03 at depth 30 cm, discontinued 2004
SOIR2601  Soil temperature at RS26__, probe no. 01 at depth 10 cm
SOIR2602  Soil temperature at RS26__, probe no. 02 at depth 20 cm
SOIR2603  Soil temperature at RS26__, probe no. 03 at depth 30 cm
SOIR8601  Soil temperature at RS86__, probe no. 01 at depth 10 cm
SOIR8602  Soil temperature at RS86__, probe no. 02 at depth 20 cm
SOIR8603  Soil temperature at RS86__, probe no. 03 at depth 30 cm
SOIR8901  Soil temperature at RS89__, probe no. 01 at depth 10 cm
SOIR8902  Soil temperature at RS89__, probe no. 02 at depth 20 cm
SOIR8903  Soil temperature at RS89__, probe no. 03 at depth 30 cm
SOIT3102  Soil temperature at TS31__, probe no. 02 at depth 20 cm, discontinued 1976
SOIT3202  Soil temperature at TS32__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3302  Soil temperature at TS33__, probe no. 02 at depth 20 cm, discontinued 1975
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<th>Description</th>
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<td>SOIT3402</td>
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<td>Soil temperature at TS35__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>Soil temperature at TS36__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3702</td>
<td>Soil temperature at TS37__, probe no. 02 at depth 20 cm, discontinued 1976</td>
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<td>Soil temperature at RS38__, probe no. 01 at depth 10 cm</td>
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<td>Soil temperature at RS38__, probe no. 02 at depth 20 cm</td>
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<td>SOIR3803</td>
<td>Soil temperature at RS38__, probe no. 03 at depth 30 cm</td>
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<td>SOIT7402</td>
<td>Soil temperature at TS74__, probe no. 02 at depth 20 cm, discontinued 1990</td>
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<td>SOIT7502</td>
<td>Soil temperature at TS75__, probe no. 02 at depth 20 cm, discontinued 1990</td>
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<td>SOIT7602</td>
<td>Soil temperature at TS76__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT7702</td>
<td>Soil temperature at TS77__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>RELR8601</td>
<td>Relative humidity at RS86__, probe no. 01 at height 235 cm, discontinued 2017</td>
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<td>RELR8901</td>
<td>Relative humidity at RS89__, probe no. 01 at height 285 cm, discontinued 2017</td>
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<td>AIRR0202</td>
<td>Air temperature at RS02__, probe no. 02 at height 225 cm</td>
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<td>Air temperature at RS02__, probe no. 03 at height 225 cm</td>
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<td>Air temperature at RS04__, probe no. 02 at height 325 cm</td>
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<td>Air temperature at RS26__, probe no. 03 at height 200 cm</td>
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<td>Air temperature at RS05__, probe no. 02 at height 200 cm</td>
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<td>Air temperature at RS05__, probe no. 03 at height 200 cm</td>
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<td>Air temperature at RS38__, probe no. 02 at height 100 cm</td>
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<td>Air temperature at RS38__, probe no. 03 at height 100 cm</td>
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<td>AIRR8602</td>
<td>Air temperature at RS86__, probe no. 02 at height 235 cm</td>
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<td>AIRR8603</td>
<td>Air temperature at RS86__, probe no. 03 at height 235 cm</td>
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<td>AIRR8902</td>
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<td>AIRR8903</td>
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Enumerated Domain for Attribute: DBCODE
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<th><strong>MS005</strong></th>
<th>FSDB Database Code</th>
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</table>

**Enumerated Domain for Attribute: RELHUM_MEAN_FLAG**
- **A**: Accepted value has passed all QC tests applied as represented by the quality level
- **B**: Sensor buried in snow
- **E**: Estimated value
- **M**: Missing value
- **Q**: Questionable value

**Enumerated Domain for Attribute: RELHUM_MAX_FLAG**
- **A**: Accepted value has passed all QC tests applied as represented by the quality level
- **B**: Sensor buried in snow
- **E**: Estimated value
- **M**: Missing value
- **Q**: Questionable value

**Enumerated Domain for Attribute: RELHUM_MIN_FLAG**
- **A**: Accepted value has passed all QC tests applied as represented by the quality level
- **B**: Sensor buried in snow
- **E**: Estimated value
- **M**: Missing value
- **Q**: Questionable value

**Enumerated Domain for Attribute: QC_LEVEL**
- **1A**: Data is published and unlikely to change - automated range checking and manual review has been conducted. Quality is indicated in data value qualifier flags
- **1D**: Data is published and unlikely to change - data is derived or aggregated from published data of level 1A
- **1P**: Data is provisional and subject to revision - preliminary quality checks have been performed
- **2A**: Data is published and unlikely to change - Level 1A data has been modified such that data gaps may be filled or problem data may be removed
- **2D**: Data is published and unlikely to change - data is derived or aggregated from published data of level 2A

**Enumerated Domain for Attribute: EVENT_CODE**
- **CALIBR**: Associated with the inspection or replacement of sensors for calibration
- **INSREM**: Sensor is installed or removed
- **LOGGER**: Change in data logger, data logger program, or wiring
- **MAINT**: A maintenance event has occurred
- **METHOD**: Change in data collection method
- **NA**: No event is reported (not applicable)
- **QUALTY**: Event may directly affect data quality
- **WEATHR**: A weather event has occurred that may affect reading
Enumerated Domain for Attribute: RELHUM_METHOD

REL018 Relative humidity is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 235 cm height; mean relative humidity is output every 60 minutes

REL019 Relative humidity is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 285 cm height; mean relative humidity is output every 60 minutes

REL118 Mean daily, max and min relative humidity is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 235 cm height (See Method REL018)

REL119 Mean daily, max and min relative humidity is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 285 cm height (See Method REL019)

Enumerated Domain for Attribute: AIRTEMP_MEAN_FLAG

B Sensor buried in snow; value represents snow temperature

E Estimated value

M Missing value

Q Questionable value

S Daily value based on sunrise to sunrise (not midnight to midnight)

A Accepted value has passed all QC tests applied as represented by the quality level

Enumerated Domain for Attribute: PROBE_CODE

AIRO1301 Air temperature at RS13O₁, probe no. 01 at height 435 cm, discontinued 2003

AIRR0101 Air temperature at RS01₁, probe no. 01 at height 100 cm, discontinued 1995

AIRR0201 Air temperature at RS02₁, probe no. 01 at height 225 cm, discontinued 2015

AIRR0301 Air temperature at RS03₁, probe no. 01 at height 235 cm, discontinued 1995

AIRR0401 Air temperature at RS04₁, probe no. 01 at height 325 cm, discontinued 2015

AIRR0501 Air temperature at RS05₁, probe no. 01 at height 200 cm, discontinued 2017

AIRR0601 Air temperature at RS06₁, probe no. 01 at height 100 cm, discontinued 1975

AIRR0701 Air temperature at RS07₁, probe no. 01 at height 100 cm, discontinued 1995

AIRR0801 Air temperature at RS08₁, probe no. 01 at height 100 cm, discontinued 1973

AIRR0901 Air temperature at RS09₁, probe no. 01 at height 100 cm, discontinued 1975

AIRR1001 Air temperature at RS10₁, probe no. 01 at height 200 cm, discontinued 2017

AIRR1101 Air temperature at RS11₁, probe no. 01 at height 100 cm, discontinued 1977

AIRR1201 Air temperature at RS12₁, probe no. 01 at height 190 cm, discontinued 2015

AIRR1301 Air temperature at RS13₁, probe no. 01 at height 275 cm, discontinued 2003

AIRR1401 Air temperature at RS14₁, probe no. 01 at height 285 cm, discontinued 2003

AIRR1501 Air temperature at RS15₁, probe no. 01 at height 180 cm, discontinued 1994

AIRR1601 Air temperature at RS16₁, probe no. 01 at height 180 cm, discontinued 1994

AIRR1701 Air temperature at RS17₁, probe no. 01 at height 60 cm, discontinued 1995
<table>
<thead>
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<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>AIRR1801</td>
<td>Air temperature at RS18__, probe no. 01 at height 100 cm, discontinued 1974</td>
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<td>AIRR1901</td>
<td>Air temperature at RS19__, probe no. 01 at height 100 cm, discontinued 1973</td>
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<td>AIRR2001</td>
<td>Air temperature at RS20__, probe no. 01 at height 220 cm, discontinued 2015</td>
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<td>AIRR2401</td>
<td>Air temperature at RS24__, probe no. 01 at height 220 cm, discontinued 2004</td>
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<td>AIRR2601</td>
<td>Air temperature at RS26__, probe no. 01 at height 200 cm, discontinued 2015</td>
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<td>AIRR8601</td>
<td>Air temperature at RS86__, probe no. 01 at height 235 cm, discontinued 2017</td>
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<td>AIRR8901</td>
<td>Air temperature at RS89__, probe no. 01 at height 285 cm, discontinued 2017</td>
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<td>Air temperature at TS31__, probe no. 01 at height 100 cm, discontinued 1976</td>
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<td>Air temperature at TS32__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>Air temperature at TS33__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>Air temperature at TS34__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>Air temperature at TS35__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>Air temperature at TS36__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>Air temperature at TS75__, probe no. 01 at height 100 cm, discontinued 1990</td>
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<td>Air temperature at TS76__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRT7701</td>
<td>Air temperature at TS77__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>Soil temperature at RS02__, probe no. 01 at depth 10 cm</td>
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<td>Soil temperature at RS02__, probe no. 02 at depth 20 cm</td>
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<td>Soil temperature at RS02__, probe no. 03 at depth 30 cm</td>
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<td>Soil temperature at RS03__, probe no. 02 at depth 20 cm, discontinued 1995</td>
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<td>Soil temperature at RS04__, probe no. 01 at depth 10 cm</td>
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SOIT3302  Soil temperature at TS33__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3402  Soil temperature at TS34__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3502  Soil temperature at TS35__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3602  Soil temperature at TS36__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3702  Soil temperature at TS37__, probe no. 02 at depth 20 cm, discontinued 1976
SOIR3801  Soil temperature at RS38__, probe no. 01 at depth 10 cm
SOIR3802  Soil temperature at RS38__, probe no. 02 at depth 20 cm
SOIR3803  Soil temperature at RS38__, probe no. 03 at depth 30 cm
SOIT7402  Soil temperature at TS74__, probe no. 02 at depth 20 cm, discontinued 1990
SOIT7502  Soil temperature at TS75__, probe no. 02 at depth 20 cm, discontinued 1990
SOIT7602  Soil temperature at TS76__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT7702  Soil temperature at TS77__, probe no. 02 at depth 20 cm, discontinued 1975
RELR8601  Relative humidity at RS86__, probe no. 01 at height 235 cm, discontinued 2017
RELR8901  Relative humidity at RS89__, probe no. 01 at height 285 cm, discontinued 2017
AIRR0202  Air temperature at RS02__, probe no. 02 at height 225 cm
AIRR0203  Air temperature at RS02__, probe no. 03 at height 225 cm
AIRR0402  Air temperature at RS04__, probe no. 02 at height 325 cm
AIRR0403  Air temperature at RS04__, probe no. 03 at height 325 cm
AIRR1202  Air temperature at RS12__, probe no. 02 at height 190 cm
AIRR1203  Air temperature at RS12__, probe no. 03 at height 190 cm
AIRR2002  Air temperature at RS20__, probe no. 02 at height 220 cm
AIRR2003  Air temperature at RS20__, probe no. 03 at height 220 cm
AIRR2602  Air temperature at RS26__, probe no. 02 at height 200 cm
AIRR2603  Air temperature at RS26__, probe no. 03 at height 200 cm
AIRR0502  Air temperature at RS05__, probe no. 02 at height 200 cm
AIRR0503  Air temperature at RS05__, probe no. 03 at height 200 cm
AIRR1002  Air temperature at RS10__, probe no. 02 at height 200 cm
AIRR1003  Air temperature at RS10__, probe no. 03 at height 200 cm
AIRR3802  Air temperature at RS38__, probe no. 02 at height 100 cm
AIRR3803  Air temperature at RS38__, probe no. 03 at height 100 cm
AIRR8602  Air temperature at RS86__, probe no. 02 at height 235 cm
AIRR8603  Air temperature at RS86__, probe no. 03 at height 235 cm
AIRR8902  Air temperature at RS89__, probe no. 02 at height 285 cm
AIRR8903  Air temperature at RS89__, probe no. 03 at height 285 cm
Enumerated Domain for Attribute: **DBCODE**  
**MS005**  
**FSDB Database Code**

Enumerated Domain for Attribute: **AIRTEMP_METHOD**

**AIR504**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 60 cm height in small shelter on tree and corrected to standard rdg.

**AIR505**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 65 cm height in small shelter on tree and corrected to standard rdg.

**AIR506**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 80 cm height in small shelter on tree and corrected to standard rdg.

**AIR507**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 85 cm height in small shelter on tree and corrected to standard rdg.

**AIR508**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 100 cm height in small shelter on tree and corrected to standard rdg.

**AIR509**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 160 cm height in small shelter on tree and corrected to standard rdg.

**AIR510**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 180 cm height in small shelter on tree and corrected to standard rdg.

**AIR511**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 190 cm height in small shelter on tree and corrected to standard rdg.

**AIR512**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 200 cm height in small shelter on tree and corrected to standard rdg.

**AIR513**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 235 cm height in small shelter on tree and corrected to standard rdg.

**AIR514**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 300 cm height in small shelter on tree and corrected to standard rdg.

**AIR515**  
Mean, max and min daily air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 500 cm height in small shelter on tree and corrected to standard rdg.

**AIR501**  
Mean, max and min daily (sunrise to sunrise) air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 100 cm height in small shelter and corrected.

**AIR502**  
Mean, max and min daily (sunrise to sunrise) air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 200 cm height in small shelter and corrected.

**AIR503**  
Mean, max and min daily (sunrise to sunrise) air temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 300 cm height in small shelter and corrected.

**AIR448**  
Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 190 cm height; mean
temperature is output every 5 minutes

**AIR449** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean temperature is output every 5 minutes

**AIR450** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 220 cm height; mean temperature is output every 5 minutes

**AIR451** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 225 cm height; mean temperature is output every 5 minutes

**AIR452** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 325 cm height; mean temperature is output every 5 minutes

**AIR444** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 100 cm height; mean temperature is output every 60 minutes

**AIR445** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean temperature is output every 60 minutes

**AIR440** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 85 cm height; mean temperature is output every 60 minutes

**AIR441** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 100 cm height; mean temperature is output every 60 minutes

**AIR442** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 200 cm height; mean temperature is output every 60 minutes

**AIR443** Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 235 cm height; mean temperature is output every 60 minutes

**AIR446** Air temperature is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 235 cm height; mean temperature is output every 60 minutes

**AIR447** Air temperature is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 285 cm height; mean temperature is output every 60 minutes

**AIR435** Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 190 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

**AIR436** Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 200 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

**AIR437** Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 220 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

**AIR438** Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 225 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

**AIR439** Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a R.M. Young Gill radiation shield at 325 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

**AIR516** Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 100 cm height (Daily output only)

**AIR517** Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 190 cm height (Daily output only)

**AIR518** Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 200 cm height (Daily output only)

**AIR519** Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T
Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 220 cm height (Daily output only)

AIR521

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 225 cm height (Daily output only)

AIR522

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 275 cm height (Daily output only)

AIR523

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 300 cm height (Daily output only)

AIR524

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 325 cm height (Daily output only)

AIR525

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 400 cm height (Daily output only)

AIR526

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 435 cm height (Daily output only)

AIR427

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 190 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR428

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 200 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR429

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 220 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR430

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 225 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR431

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 275 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR432

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 285 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR433

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 300 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR434

Air temperature is sampled by type T thermocouple soldered from thermocouple wire housed in a locally designed PVC radiation shield at 325 cm height with a Campbell Scientific data logger; mean temperature is output every 60 minutes

AIR527

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 200 cm height (See Method AIR427)

AIR528

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 220 cm height (See Method AIR428)

AIR529

Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 300 cm height (See Method AIR429)

AIR530
Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 225 cm height (See Method AIR430)

AIR531 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 275 cm height (See Method AIR431)

AIR532 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 285 cm height (See Method AIR432)

AIR533 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 325 cm height (See Method AIR433)

AIR534 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a locally designed PVC radiation shield at 435 cm height (See Method AIR434)

AIR535 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 190 cm height (See Method AIR435)

AIR536 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 200 cm height (See Method AIR436)

AIR537 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 220 cm height (See Method AIR437)

AIR538 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 225 cm height (See Method AIR438)

AIR539 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple wire housed in a R.M. Young Gill radiation shield at 325 cm height (See Method AIR439)

AIR540 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 85 cm height (See Method AIR440)

AIR541 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 100 cm height (See Method AIR441)

AIR542 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 200 cm height (See Method AIR442)

AIR543 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a locally designed PVC radiation shield at 235 cm height (See Method AIR443)

AIR544 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 100 cm height (See Method AIR444)

AIR545 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height (See Method AIR445)

AIR546 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 235 cm height (See Method AIR446)
AIR547 Mean daily, max and min air temperature is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 285 cm height (See Method AIR447)

AIR548 Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 190 cm height (See AIR448)

AIR549 Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 200 cm height (See AIR449)

AIR550 Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 220 cm height (See AIR450)

AIR551 Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 225 cm height (See AIR451)

AIR552 Mean daily air temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. CS model 107 thermistor; RM Young Gill radiation shield; 325 cm height (See Method AIR452)

AIR635 Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 190 cm (See Method AIR435)

AIR636 Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 200cm (See Method AIR436)

AIR637 Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 220cm (See Method AIR437)

AIR638 Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 225cm (See Method AIR438)

AIR639 Mean daily air temperature is post-calculated from hourly mean values for the day. Max-min values are based on hourly mean intervals and not instantaneous values. Type T thermocouple wire; R.M. Young Gill radiation shield; 325cm (See Method AIR439)

AIR453 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 190 cm height; mean, min, max temperature is output every 5 minutes

AIR553 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings. CS Model 107; Gill radiation shield; 190 cm height (See method AIR453)

AIR454 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

AIR455 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 220 cm height; mean, min, max temperature is output every 5 minutes

AIR456 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 225 cm height; mean, min, max temperature is output every 5 minutes

AIR457 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 325 cm height; mean, min, max temperature is output every 5 minutes

AIR554 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings. CS Model 107; Gill radiation shield; 200 cm height (See method AIR454)

AIR555 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings.
CS Model 107; Gill radiation shield; 220 cm height (See method AIR455)

AIR556 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings.

CS Model 107; Gill radiation shield; 225 cm height (See method AIR456)

AIR557 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings.

CS Model 107; Gill radiation shield; 325 cm height (See method AIR457)

AIR458 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

AIR459 Air temperature is sampled by a Campbell Scientific model 107 thermistor housed in a R.M. Young Gill radiation shield at 200 cm height; mean, min, max temperature is output every 5 minutes

CS Model 107; Gill radiation shield; 200 cm height (See method AIR458)

AIR559 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings.

CS Model 107; Gill radiation shield; 200 cm height (See method AIR459)

AIR560 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings.

CS Model 107; Gill radiation shield; 100 cm height (See method AIR460)

AIR561 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings.

CS Model 107; Gill radiation shield; 235 cm height (See method AIR461)

AIR562 Mean daily air temperature is post-calculated from all 5 minute values, and max-min values are determined based on all instantaneous 10 second readings.

CS Model 107; Gill radiation shield; 285 cm height (See method AIR462)

Enumerated Domain for Attribute: QC_LEVEL
1A Data is published and unlikely to change - automated range checking and manual review has been conducted. Quality is indicated in data value qualifier flags
1D Data is published and unlikely to change - data is derived or aggregated from published data of level 1A
1P Data is provisional and subject to revision - preliminary quality checks have been performed
2A Data is published and unlikely to change - Level 1A data has been modified such that data gaps may be filled or problem data may be removed
2D Data is published and unlikely to change - data is derived or aggregated from published data of level 2A

Enumerated Domain for Attribute: EVENT_CODE
CALIBR Associated with the inspection or replacement of sensors for calibration
INSREM Sensor is installed or removed
LOGGER Change in data logger, data logger program, or wiring
MAINTEN A maintenance event has occurred
METHOD Change in data collection method
NA No event is reported (not applicable)
QUALTY Event may directly affect data quality
WEATHER A weather event has occurred that may affect reading
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<thead>
<tr>
<th>Enumerated Domain for Attribute: PROBE_CODE</th>
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<tr>
<td>AIRR01301 Air temperature at RS13O_, probe no. 01 at height 435 cm, discontinued 2003</td>
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<tr>
<td>AIRR0101 Air temperature at RS01__, probe no. 01 at height 100 cm, discontinued 1995</td>
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<tr>
<td>AIRR0201 Air temperature at RS02__, probe no. 01 at height 225 cm, discontinued 2015</td>
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<td>AIRR0301 Air temperature at RS03__, probe no. 01 at height 235 cm, discontinued 1995</td>
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<td>AIRR0401 Air temperature at RS04__, probe no. 01 at height 325 cm, discontinued 2015</td>
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<td>AIRR0501 Air temperature at RS05__, probe no. 01 at height 200 cm, discontinued 2017</td>
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<td>AIRR0601 Air temperature at RS06__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRR0701 Air temperature at RS07__, probe no. 01 at height 100 cm, discontinued 1995</td>
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<td>AIRR0801 Air temperature at RS08__, probe no. 01 at height 100 cm, discontinued 1973</td>
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<td>AIRR0901 Air temperature at RS09__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRR1001 Air temperature at RS10__, probe no. 01 at height 200 cm, discontinued 2017</td>
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<td>AIRR1101 Air temperature at RS11__, probe no. 01 at height 100 cm, discontinued 1977</td>
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<td>AIRR1201 Air temperature at RS12__, probe no. 01 at height 190 cm, discontinued 2015</td>
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<td>AIRR1301 Air temperature at RS13__, probe no. 01 at height 275 cm, discontinued 2003</td>
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<td>AIRR1401 Air temperature at RS14__, probe no. 01 at height 285 cm, discontinued 2003</td>
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<td>AIRR1501 Air temperature at RS15__, probe no. 01 at height 180 cm, discontinued 1994</td>
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<td>AIRR1601 Air temperature at RS16__, probe no. 01 at height 180 cm, discontinued 1994</td>
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<td>AIRR1701 Air temperature at RS17__, probe no. 01 at height 60 cm, discontinued 1995</td>
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<td>AIRR1901 Air temperature at RS19__, probe no. 01 at height 100 cm, discontinued 1973</td>
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<td>AIRR2001 Air temperature at RS20__, probe no. 01 at height 220 cm, discontinued 2015</td>
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<td>AIRR2401 Air temperature at RS24__, probe no. 01 at height 220 cm, discontinued 2004</td>
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<td>AIRR2601 Air temperature at RS26__, probe no. 01 at height 200 cm, discontinued 2015</td>
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<td>AIRR8601 Air temperature at RS86__, probe no. 01 at height 235 cm, discontinued 2017</td>
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<td>AIRR8901 Air temperature at RS89__, probe no. 01 at height 285 cm, discontinued 2017</td>
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<td>AIRT3101 Air temperature at TS31__, probe no. 01 at height 100 cm, discontinued 1976</td>
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<td>AIRT3201 Air temperature at TS32__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRT3401 Air temperature at TS34__, probe no. 01 at height 100 cm, discontinued 1975</td>
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<td>AIRT3801 Air temperature at RS38__, probe no. 01 at height 100 cm, discontinued 2017</td>
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AIRT7401 Air temperature at TS74__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7501 Air temperature at TS75__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7601 Air temperature at TS76__, probe no. 01 at height 100 cm, discontinued 1975
AIRT7701 Air temperature at TS77__, probe no. 01 at height 100 cm, discontinued 1975
SOIO1302 Soil temperature at RS13O_, probe no. 02 at depth 20 cm, discontinued 2003
SOIR0102 Soil temperature at RS01__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0201 Soil temperature at RS02__, probe no. 01 at depth 10 cm
SOIR0202 Soil temperature at RS02__, probe no. 02 at depth 20 cm
SOIR0203 Soil temperature at RS02__, probe no. 03 at depth 30 cm
SOIR0302 Soil temperature at RS03__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0401 Soil temperature at RS04__, probe no. 01 at depth 10 cm
SOIR0402 Soil temperature at RS04__, probe no. 02 at depth 20 cm
SOIR0403 Soil temperature at RS04__, probe no. 03 at depth 30 cm
SOIR0501 Soil temperature at RS05__, probe no. 01 at depth 10 cm
SOIR0502 Soil temperature at RS05__, probe no. 02 at depth 20 cm
SOIR0503 Soil temperature at RS05__, probe no. 03 at depth 30 cm
SOIR0602 Soil temperature at RS06__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR0702 Soil temperature at RS07__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0802 Soil temperature at RS08__, probe no. 02 at depth 20 cm, discontinued 1973
SOIR0902 Soil temperature at RS09__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR1001 Soil temperature at RS10__, probe no. 01 at depth 10 cm
SOIR1002 Soil temperature at RS10__, probe no. 02 at depth 20 cm
SOIR1003 Soil temperature at RS10__, probe no. 03 at depth 30 cm
SOIR1102 Soil temperature at RS11__, probe no. 02 at depth 20 cm, discontinued 1977
SOIR1201 Soil temperature at RS12__, probe no. 01 at depth 10 cm
SOIR1202 Soil temperature at RS12__, probe no. 02 at depth 20 cm
SOIR1203 Soil temperature at RS12__, probe no. 03 at depth 30 cm
SOIR1302 Soil temperature at RS13__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1401 Soil temperature at RS14__, probe no. 01 at depth 10 cm, discontinued 2003
SOIR1402 Soil temperature at RS14__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1403 Soil temperature at RS14__, probe no. 03 at depth 30 cm, discontinued 2003
SOIR1502 Soil temperature at RS15__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1602 Soil temperature at RS16__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1702 Soil temperature at RS17__, probe no. 02 at depth 20 cm, discontinued 1995
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<td>Soil temperature at RS19__, probe no. 02 at depth 20 cm, discontinued 1973</td>
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<td>SOIR2001</td>
<td>Soil temperature at RS20__, probe no. 01 at depth 10 cm</td>
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<td>Soil temperature at RS20__, probe no. 02 at depth 20 cm</td>
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<td>SOIR2003</td>
<td>Soil temperature at RS20__, probe no. 03 at depth 30 cm</td>
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<td>SOIR2401</td>
<td>Soil temperature at RS24__, probe no. 01 at depth 10 cm, discontinued 2004</td>
</tr>
<tr>
<td>SOIR2402</td>
<td>Soil temperature at RS24__, probe no. 02 at depth 20 cm, discontinued 2004</td>
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<tr>
<td>SOIR2403</td>
<td>Soil temperature at RS24__, probe no. 03 at depth 30 cm, discontinued 2004</td>
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<td>SOIR2601</td>
<td>Soil temperature at RS26__, probe no. 01 at depth 10 cm</td>
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<td>SOIR2602</td>
<td>Soil temperature at RS26__, probe no. 02 at depth 20 cm</td>
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<td>SOIR2603</td>
<td>Soil temperature at RS26__, probe no. 03 at depth 30 cm</td>
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<tr>
<td>SOIR8601</td>
<td>Soil temperature at RS86__, probe no. 01 at depth 10 cm</td>
</tr>
<tr>
<td>SOIR8602</td>
<td>Soil temperature at RS86__, probe no. 02 at depth 20 cm</td>
</tr>
<tr>
<td>SOIR8603</td>
<td>Soil temperature at RS86__, probe no. 03 at depth 30 cm</td>
</tr>
<tr>
<td>SOIR8901</td>
<td>Soil temperature at RS89__, probe no. 01 at depth 10 cm</td>
</tr>
<tr>
<td>SOIR8902</td>
<td>Soil temperature at RS89__, probe no. 02 at depth 20 cm</td>
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<tr>
<td>SOIR8903</td>
<td>Soil temperature at RS89__, probe no. 03 at depth 30 cm</td>
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<td>SOIT3102</td>
<td>Soil temperature at TS31__, probe no. 02 at depth 20 cm, discontinued 1976</td>
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<td>SOIT3202</td>
<td>Soil temperature at TS32__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3302</td>
<td>Soil temperature at TS33__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3402</td>
<td>Soil temperature at TS34__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3502</td>
<td>Soil temperature at TS35__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3602</td>
<td>Soil temperature at TS36__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT3702</td>
<td>Soil temperature at TS37__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIR3801</td>
<td>Soil temperature at RS38__, probe no. 01 at depth 10 cm</td>
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<td>SOIR3802</td>
<td>Soil temperature at RS38__, probe no. 02 at depth 20 cm</td>
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<td>SOIR3803</td>
<td>Soil temperature at RS38__, probe no. 03 at depth 30 cm</td>
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<td>SOIT7402</td>
<td>Soil temperature at TS74__, probe no. 02 at depth 20 cm, discontinued 1990</td>
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<td>SOIT7502</td>
<td>Soil temperature at TS75__, probe no. 02 at depth 20 cm, discontinued 1990</td>
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<td>SOIT7602</td>
<td>Soil temperature at TS76__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>SOIT7702</td>
<td>Soil temperature at TS77__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<tr>
<td>RELR8601</td>
<td>Relative humidity at RS86__, probe no. 01 at height 235 cm, discontinued 2017</td>
</tr>
<tr>
<td>RELR8901</td>
<td>Relative humidity at RS89__, probe no. 01 at height 285 cm, discontinued 2017</td>
</tr>
<tr>
<td>AIRR0202</td>
<td>Air temperature at RS02__, probe no. 02 at height 225 cm</td>
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AIRR0203  Air temperature at RS02__, probe no. 03 at height 225 cm
AIRR0402  Air temperature at RS04__, probe no. 02 at height 325 cm
AIRR0403  Air temperature at RS04__, probe no. 03 at height 325 cm
AIRR1202  Air temperature at RS12__, probe no. 02 at height 190 cm
AIRR1203  Air temperature at RS12__, probe no. 03 at height 190 cm
AIRR2002  Air temperature at RS20__, probe no. 02 at height 220 cm
AIRR2003  Air temperature at RS20__, probe no. 03 at height 220 cm
AIRR2602  Air temperature at RS26__, probe no. 02 at height 200 cm
AIRR2603  Air temperature at RS26__, probe no. 03 at height 200 cm
AIRR0502  Air temperature at RS05__, probe no. 02 at height 200 cm
AIRR0503  Air temperature at RS05__, probe no. 03 at height 200 cm
AIRR1002  Air temperature at RS10__, probe no. 02 at height 200 cm
AIRR1003  Air temperature at RS10__, probe no. 03 at height 200 cm
AIRR3802  Air temperature at RS38__, probe no. 02 at height 100 cm
AIRR3803  Air temperature at RS38__, probe no. 03 at height 100 cm
AIRR8602  Air temperature at RS86__, probe no. 02 at height 235 cm
AIRR8603  Air temperature at RS86__, probe no. 03 at height 235 cm
AIRR8902  Air temperature at RS89__, probe no. 02 at height 285 cm
AIRR8903  Air temperature at RS89__, probe no. 03 at height 285 cm

Enumerated Domain for Attribute: DBCODE
MS005  FSDB Database Code

Enumerated Domain for Attribute: RELHUM_MEAN_FLAG
A  Accepted value has passed all QC tests applied as represented by the quality level
B  Sensor buried in snow
E  Estimated value
M  Missing value
Q  Questionable value

Enumerated Domain for Attribute: QC_LEVEL
1A  Data is published and unlikely to change - automated range checking and manual review has been conducted. Quality is indicated in data value qualifier flags
1D  Data is published and unlikely to change - data is derived or aggregated from published data of level 1A
1P  Data is provisional and subject to revision - preliminary quality checks have been performed
2A  Data is published and unlikely to change - Level 1A data has been modified such that data gaps may be filled or problem data may be removed
2D  Data is published and unlikely to change - data is derived or aggregated from published data of level 2A
### Enumerated Domain for Attribute: EVENT_CODE

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>CALIBR</td>
<td>Associated with the inspection or replacement of sensors for calibration</td>
</tr>
<tr>
<td>INSREM</td>
<td>Sensor is installed or removed</td>
</tr>
<tr>
<td>LOGGER</td>
<td>Change in data logger, data logger program, or wiring</td>
</tr>
<tr>
<td>MAINT</td>
<td>A maintenance event has occurred</td>
</tr>
<tr>
<td>METHOD</td>
<td>Change in data collection method</td>
</tr>
<tr>
<td>NA</td>
<td>No event is reported (not applicable)</td>
</tr>
<tr>
<td>QUALTY</td>
<td>Event may directly affect data quality</td>
</tr>
<tr>
<td>WEATHR</td>
<td>A weather event has occurred that may affect reading</td>
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### Enumerated Domain for Attribute: RELHUM_METHOD

<table>
<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>REL018</td>
<td>Relative humidity is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 235 cm height; mean relative humidity is output every 60 minutes</td>
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<tr>
<td>REL019</td>
<td>Relative humidity is sampled by a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 285 cm height; mean relative humidity is output every 60 minutes</td>
</tr>
<tr>
<td>REL118</td>
<td>Mean daily, max and min relative humidity is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 235 cm height (See Method REL018)</td>
</tr>
<tr>
<td>REL119</td>
<td>Mean daily, max and min relative humidity is calculated by the Campbell Scientific datalogger based on 15 second samples from a Campbell Scientific model HMP45C probe housed in a R.M. Young Gill radiation shield at 285 cm height (See Method REL019)</td>
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### Enumerated Domain for Attribute: SOILTEMP_MEAN_FLAG

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
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<td>Estimated value</td>
</tr>
<tr>
<td>M</td>
<td>Missing value</td>
</tr>
<tr>
<td>Q</td>
<td>Questionable value</td>
</tr>
<tr>
<td>S</td>
<td>Daily value based on sunrise to sunrise (not midnight to midnight)</td>
</tr>
<tr>
<td>A</td>
<td>Accepted value has passed all QC tests applied as represented by the quality level</td>
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### Enumerated Domain for Attribute: SOILTEMP_MAX_FLAG

<table>
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<tr>
<td>Q</td>
<td>Questionable value</td>
</tr>
<tr>
<td>A</td>
<td>Accepted value has passed all QC tests applied as represented by the quality level</td>
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### Enumerated Domain for Attribute: SOILTEMP_MIN_FLAG

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<td>M</td>
<td>Missing value</td>
</tr>
<tr>
<td>Q</td>
<td>Questionable value</td>
</tr>
<tr>
<td>A</td>
<td>Accepted value has passed all QC tests applied as represented by the quality level</td>
</tr>
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</table>

### Enumerated Domain for Attribute: PROBE_CODE

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>AIRO1301</td>
<td>Air temperature at RS13O_, probe no. 01 at height 435 cm, discontinued 2003</td>
</tr>
</tbody>
</table>
AIRR0101  Air temperature at RS01__, probe no. 01 at height 100 cm, discontinued 1995
AIRR0201  Air temperature at RS02__, probe no. 01 at height 225 cm, discontinued 2015
AIRR0301  Air temperature at RS03__, probe no. 01 at height 235 cm, discontinued 1995
AIRR0401  Air temperature at RS04__, probe no. 01 at height 325 cm, discontinued 2015
AIRR0501  Air temperature at RS05__, probe no. 01 at height 200 cm, discontinued 2017
AIRR0601  Air temperature at RS06__, probe no. 01 at height 100 cm, discontinued 1975
AIRR0701  Air temperature at RS07__, probe no. 01 at height 100 cm, discontinued 1995
AIRR0801  Air temperature at RS08__, probe no. 01 at height 100 cm, discontinued 1973
AIRR0901  Air temperature at RS09__, probe no. 01 at height 100 cm, discontinued 1975
AIRR1001  Air temperature at RS10__, probe no. 01 at height 200 cm, discontinued 2017
AIRR1101  Air temperature at RS11__, probe no. 01 at height 100 cm, discontinued 1977
AIRR1201  Air temperature at RS12__, probe no. 01 at height 190 cm, discontinued 2015
AIRR1301  Air temperature at RS13__, probe no. 01 at height 275 cm, discontinued 2003
AIRR1401  Air temperature at RS14__, probe no. 01 at height 285 cm, discontinued 2003
AIRR1501  Air temperature at RS15__, probe no. 01 at height 180 cm, discontinued 1994
AIRR1601  Air temperature at RS16__, probe no. 01 at height 180 cm, discontinued 1994
AIRR1701  Air temperature at RS17__, probe no. 01 at height 60 cm, discontinued 1995
AIRR1801  Air temperature at RS18__, probe no. 01 at height 100 cm, discontinued 1974
AIRR1901  Air temperature at RS19__, probe no. 01 at height 100 cm, discontinued 1973
AIRR2001  Air temperature at RS20__, probe no. 01 at height 220 cm, discontinued 2015
AIRR2401  Air temperature at RS24__, probe no. 01 at height 220 cm, discontinued 2004
AIRR2601  Air temperature at RS26__, probe no. 01 at height 200 cm, discontinued 2015
AIRR8601  Air temperature at RS86__, probe no. 01 at height 235 cm, discontinued 2017
AIRR8901  Air temperature at RS89__, probe no. 01 at height 285 cm, discontinued 2017
AIRT3101  Air temperature at TS31__, probe no. 01 at height 100 cm, discontinued 1976
AIRT3201  Air temperature at TS32__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3301  Air temperature at TS33__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3401  Air temperature at TS34__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3501  Air temperature at TS35__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3601  Air temperature at TS36__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3701  Air temperature at TS37__, probe no. 01 at height 100 cm, discontinued 1976
AIRR3801  Air temperature at RS38__, probe no. 01 at height 100 cm, discontinued 2017
AIRT7401  Air temperature at TS74__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7501  Air temperature at TS75__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7601  Air temperature at TS76__, probe no. 01 at height 100 cm, discontinued 1975
AIRT7701  Air temperature at TS77__, probe no. 01 at height 100 cm, discontinued 1975
SOIO1302  Soil temperature at RS13O__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR0102  Soil temperature at RS01__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0201  Soil temperature at RS02__, probe no. 01 at depth 10 cm
SOIR0202  Soil temperature at RS02__, probe no. 02 at depth 20 cm
SOIR0203  Soil temperature at RS02__, probe no. 03 at depth 30 cm
SOIR0302  Soil temperature at RS03__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0401  Soil temperature at RS04__, probe no. 01 at depth 10 cm
SOIR0402  Soil temperature at RS04__, probe no. 02 at depth 20 cm
SOIR0403  Soil temperature at RS04__, probe no. 03 at depth 30 cm
SOIR0501  Soil temperature at RS05__, probe no. 01 at depth 10 cm
SOIR0502  Soil temperature at RS05__, probe no. 02 at depth 20 cm
SOIR0503  Soil temperature at RS05__, probe no. 03 at depth 30 cm
SOIR0602  Soil temperature at RS06__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR0702  Soil temperature at RS07__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0802  Soil temperature at RS08__, probe no. 02 at depth 20 cm, discontinued 1973
SOIR0902  Soil temperature at RS09__, probe no. 02 at depth 20 cm, discontinued 1975
SOIR1001  Soil temperature at RS10__, probe no. 01 at depth 10 cm
SOIR1002  Soil temperature at RS10__, probe no. 02 at depth 20 cm
SOIR1003  Soil temperature at RS10__, probe no. 03 at depth 30 cm
SOIR1102  Soil temperature at RS11__, probe no. 02 at depth 20 cm, discontinued 1977
SOIR1201  Soil temperature at RS12__, probe no. 01 at depth 10 cm
SOIR1202  Soil temperature at RS12__, probe no. 02 at depth 20 cm
SOIR1203  Soil temperature at RS12__, probe no. 03 at depth 30 cm
SOIR1302  Soil temperature at RS13__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1401  Soil temperature at RS14__, probe no. 01 at depth 10 cm, discontinued 2003
SOIR1402  Soil temperature at RS14__, probe no. 02 at depth 20 cm, discontinued 2003
SOIR1403  Soil temperature at RS14__, probe no. 03 at depth 30 cm, discontinued 2003
SOIR1502  Soil temperature at RS15__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1602  Soil temperature at RS16__, probe no. 02 at depth 20 cm, discontinued 1994
SOIR1702  Soil temperature at RS17__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR1802  Soil temperature at RS18__, probe no. 02 at depth 20 cm, discontinued 1974
SOIR1902  Soil temperature at RS19__, probe no. 02 at depth 20 cm, discontinued 1973
SOIR2001  Soil temperature at RS20__, probe no. 01 at depth 10 cm
SOIR2002  Soil temperature at RS20__, probe no. 02 at depth 20 cm
SOIR2003  Soil temperature at RS20__, probe no. 03 at depth 30 cm
SOIR2401  Soil temperature at RS24__, probe no. 01 at depth 10 cm, discontinued 2004
SOIR2402  Soil temperature at RS24__, probe no. 02 at depth 20 cm, discontinued 2004
SOIR2403  Soil temperature at RS24__, probe no. 03 at depth 30 cm, discontinued 2004
SOIR2601  Soil temperature at RS26__, probe no. 01 at depth 10 cm
SOIR2602  Soil temperature at RS26__, probe no. 02 at depth 20 cm
SOIR2603  Soil temperature at RS26__, probe no. 03 at depth 30 cm
SOIR8601  Soil temperature at RS86__, probe no. 01 at depth 10 cm
SOIR8602  Soil temperature at RS86__, probe no. 02 at depth 20 cm
SOIR8603  Soil temperature at RS86__, probe no. 03 at depth 30 cm
SOIR8901  Soil temperature at RS89__, probe no. 01 at depth 10 cm
SOIR8902  Soil temperature at RS89__, probe no. 02 at depth 20 cm
SOIR8903  Soil temperature at RS89__, probe no. 03 at depth 30 cm
SOIT3102  Soil temperature at TS31__, probe no. 02 at depth 20 cm, discontinued 1976
SOIT3202  Soil temperature at TS32__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3302  Soil temperature at TS33__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3402  Soil temperature at TS34__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3502  Soil temperature at TS35__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3602  Soil temperature at TS36__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3702  Soil temperature at TS37__, probe no. 02 at depth 20 cm, discontinued 1976
SOIR3801  Soil temperature at RS38__, probe no. 01 at depth 10 cm
SOIR3802  Soil temperature at RS38__, probe no. 02 at depth 20 cm
SOIR3803  Soil temperature at RS38__, probe no. 03 at depth 30 cm
SOIT7402  Soil temperature at TS74__, probe no. 02 at depth 20 cm, discontinued 1990
SOIT7502  Soil temperature at TS75__, probe no. 02 at depth 20 cm, discontinued 1990
SOIT7602  Soil temperature at TS76__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT7702  Soil temperature at TS77__, probe no. 02 at depth 20 cm, discontinued 1975
RELR8601  Relative humidity at RS86__, probe no. 01 at height 235 cm, discontinued 2017
RELR8901  Relative humidity at RS89__, probe no. 01 at height 285 cm, discontinued 2017
AIRR0202  Air temperature at RS02__, probe no. 02 at height 225 cm
AIRR0203  Air temperature at RS02__, probe no. 03 at height 225 cm
AIRR0402  Air temperature at RS04__, probe no. 02 at height 325 cm
AIRR0403  Air temperature at RS04__, probe no. 03 at height 325 cm
AIRR1202  Air temperature at RS12__, probe no. 02 at height 190 cm
AIRR1203  Air temperature at RS12__, probe no. 03 at height 190 cm
AIRR2002  Air temperature at RS20__, probe no. 02 at height 220 cm
AIRR2003  Air temperature at RS20__, probe no. 03 at height 220 cm
AIRR2602  Air temperature at RS26__, probe no. 02 at height 200 cm
AIRR2603  Air temperature at RS26__, probe no. 03 at height 200 cm
AIRR0502  Air temperature at RS05__, probe no. 02 at height 200 cm
AIRR0503  Air temperature at RS05__, probe no. 03 at height 200 cm
AIRR1002  Air temperature at RS10__, probe no. 02 at height 200 cm
AIRR1003  Air temperature at RS10__, probe no. 03 at height 200 cm
AIRR3802  Air temperature at RS38__, probe no. 02 at height 100 cm
AIRR3803  Air temperature at RS38__, probe no. 03 at height 100 cm
AIRR8602  Air temperature at RS86__, probe no. 02 at height 235 cm
AIRR8603  Air temperature at RS86__, probe no. 03 at height 235 cm
AIRR8902  Air temperature at RS89__, probe no. 02 at height 285 cm
AIRR8903  Air temperature at RS89__, probe no. 03 at height 285 cm

Enumerated Domain for Attribute: DBCODE
MS005  FSDB Database Code

Enumerated Domain for Attribute: QC_LEVEL
1A  Data is published and unlikely to change - automated range checking and manual review has been conducted. Quality is indicated in data value qualifier flags
1D  Data is published and unlikely to change - data is derived or aggregated from published data of level 1A
1P  Data is provisional and subject to revision - preliminary quality checks have been performed
2A  Data is published and unlikely to change - Level 1A data has been modified such that data gaps may be filled or problem data may be removed
2D  Data is published and unlikely to change - data is derived or aggregated from published data of level 2A

Enumerated Domain for Attribute: EVENT_CODE
CALIBR  Associated with the inspection or replacement of sensors for calibration
INSREM  Sensor is installed or removed
LOGGER  Change in data logger, data logger program, or wiring
MAINT  A maintenance event has occurred
METHOD  Change in data collection method
NA  No event is reported (not applicable)
QUALTY  Event may directly affect data quality
WEATHER  A weather event has occurred that may affect reading
Enumerated Domain for Attribute: SOILTEMP_METHOD

SOI115 Mean daily soil temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 20 cm depth.

SOI116 Mean daily (sunrise to sunrise) soil temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 20 cm depth.

SOI023 Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 10 cm depth; mean temperature is output every 6 hours.

SOI024 Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 20 cm depth; mean temperature is output every 6 hours.

SOI025 Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 30 cm depth; mean temperature is output every 6 hours.

SOI020 Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 10 cm depth with a Campbell Scientific data logger; mean temperature is output every 6 hours.

SOI021 Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 20 cm depth with a Campbell Scientific data logger; mean temperature is output every 6 hours.

SOI022 Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 30 cm depth with a Campbell Scientific data logger; mean temperature is output every 6 hours.

SOI117 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 10 cm depth (Daily output only).

SOI118 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 20 cm depth (Daily output only).

SOI119 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 30 cm depth (Daily output only).

SOI026 Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 10 cm depth with a Campbell Scientific data logger; mean temperature is output every 5 minutes.

SOI027 Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 20 cm depth with a Campbell Scientific data logger; mean temperature is output every 5 minutes.

SOI028 Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 30 cm depth with a Campbell Scientific data logger; mean temperature is output every 5 minutes.

SOI029 Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 10 cm depth; mean temperature is output every 5 minutes.

SOI030 Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 20 cm depth; mean temperature is output every 5 minutes.

SOI031 Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 30 cm depth; mean temperature is output every 5 minutes.

SOI120 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 10 cm depth (See Method SOI020).

SOI121 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 20 cm depth (See Method SOI021).

SOI122 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 30 cm depth (See Method SOI022).

SOI123 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is Campbell Scientific model 107 thermistor at 10 cm depth (See Method SOI023).

SOI124 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is Campbell Scientific model 107 thermistor at 20 cm depth (See Method SOI024).
SOI125 Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is Campbell Scientific model 107 thermistor at 30 cm depth (See Method SOI025)

SOI126 Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Type T thermocouple wire at 10 cm depth (See Method SOI026)

SOI127 Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Type T thermocouple wire at 20 cm depth (See Method SOI027)

SOI128 Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Type T thermocouple wire at 30 cm depth (See Method SOI028)

SOI129 Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Campbell Scientific model 107 thermistor at 10 cm depth (See Method SOI029)

SOI130 Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Campbell Scientific model 107 thermistor at 20 cm depth (See Method SOI030)

SOI131 Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Campbell Scientific model 107 thermistor at 30 cm depth (See Method SOI031)

Enumerated Domain for Attribute: SOILTEMP_MEAN_FLAG
E Estimated value
M Missing value
Q Questionable value
S Daily value based on sunrise to sunrise (not midnight to midnight)
A Accepted value has passed all QC tests applied as represented by the quality level

Enumerated Domain for Attribute: PROBE_CODE
AIRO1301 Air temperature at RS13O_, probe no. 01 at height 435 cm, discontinued 2003
AIRR0101 Air temperature at RS01__, probe no. 01 at height 100 cm, discontinued 1995
AIRR0201 Air temperature at RS02__, probe no. 01 at height 225 cm, discontinued 2015
AIRR0301 Air temperature at RS03__, probe no. 01 at height 235 cm, discontinued 1995
AIRR0401 Air temperature at RS04__, probe no. 01 at height 325 cm, discontinued 2015
AIRR0501 Air temperature at RS05__, probe no. 01 at height 200 cm, discontinued 2017
AIRR0601 Air temperature at RS06__, probe no. 01 at height 100 cm, discontinued 1975
AIRR0701 Air temperature at RS07__, probe no. 01 at height 100 cm, discontinued 1995
AIRR0801 Air temperature at RS08__, probe no. 01 at height 100 cm, discontinued 1973
AIRR0901 Air temperature at RS09__, probe no. 01 at height 100 cm, discontinued 1975
AIRR1001 Air temperature at RS10__, probe no. 01 at height 200 cm, discontinued 2017
AIRR1101 Air temperature at RS11__, probe no. 01 at height 100 cm, discontinued 1977
AIRR1201 Air temperature at RS12__, probe no. 01 at height 190 cm, discontinued 2015
AIRR1301 Air temperature at RS13__, probe no. 01 at height 275 cm, discontinued 2003
AIRR1401 Air temperature at RS14__, probe no. 01 at height 285 cm, discontinued 2003
AIRR1501 Air temperature at RS15__, probe no. 01 at height 180 cm, discontinued 1994
AIRR1601 Air temperature at RS16__, probe no. 01 at height 180 cm, discontinued 1994
AIRR1701 Air temperature at RS17__, probe no. 01 at height 60 cm, discontinued 1995
AIRR1801 Air temperature at RS18__, probe no. 01 at height 100 cm, discontinued 1974
AIRR1901 Air temperature at RS19__, probe no. 01 at height 100 cm, discontinued 1973
AIRR2001 Air temperature at RS20__, probe no. 01 at height 220 cm, discontinued 2015
AIRR2401 Air temperature at RS24__, probe no. 01 at height 220 cm, discontinued 2004
AIRR2601 Air temperature at RS26__, probe no. 01 at height 200 cm, discontinued 2015
AIRR8601 Air temperature at RS86__, probe no. 01 at height 235 cm, discontinued 2017
AIRR8901 Air temperature at RS89__, probe no. 01 at height 285 cm, discontinued 2017
AIRT3101 Air temperature at TS31__, probe no. 01 at height 285 cm, discontinued 2017
AIRT3201 Air temperature at TS32__, probe no. 01 at height 100 cm, discontinued 1976
AIRT3301 Air temperature at TS33__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3401 Air temperature at TS34__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3501 Air temperature at TS35__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3601 Air temperature at TS36__, probe no. 01 at height 100 cm, discontinued 1975
AIRT3701 Air temperature at TS37__, probe no. 01 at height 100 cm, discontinued 1976
AIRR3801 Air temperature at RS38__, probe no. 01 at height 100 cm, discontinued 2017
AIRT7401 Air temperature at TS74__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7501 Air temperature at TS75__, probe no. 01 at height 100 cm, discontinued 1990
AIRT7601 Air temperature at TS76__, probe no. 01 at height 100 cm, discontinued 1975
AIRT7701 Air temperature at TS77__, probe no. 01 at height 100 cm, discontinued 1975
SOIO1302 Soil temperature at RS13O_, probe no. 02 at depth 20 cm, discontinued 2003
SOIR0102 Soil temperature at RS01__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0201 Soil temperature at RS02__, probe no. 01 at depth 10 cm
SOIR0202 Soil temperature at RS02__, probe no. 02 at depth 20 cm
SOIR0203 Soil temperature at RS02__, probe no. 03 at depth 30 cm
SOIR0302 Soil temperature at RS03__, probe no. 02 at depth 20 cm, discontinued 1995
SOIR0401 Soil temperature at RS04__, probe no. 01 at depth 10 cm
SOIR0402 Soil temperature at RS04__, probe no. 02 at depth 20 cm
SOIR0403 Soil temperature at RS04__, probe no. 03 at depth 30 cm
SOIR0501 Soil temperature at RS05__, probe no. 01 at depth 10 cm
SOIR0502 Soil temperature at RS05__, probe no. 02 at depth 20 cm
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<td>Soil temperature at RS08__, probe no. 02 at depth 20 cm, discontinued 1973</td>
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<td>SOIR1201</td>
<td>Soil temperature at RS12__, probe no. 01 at depth 10 cm</td>
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<td>Soil temperature at RS12__, probe no. 02 at depth 20 cm</td>
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<td>Soil temperature at RS12__, probe no. 03 at depth 30 cm</td>
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<td>Soil temperature at RS13__, probe no. 02 at depth 20 cm, discontinued 2003</td>
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<td>Soil temperature at RS18__, probe no. 02 at depth 20 cm, discontinued 1974</td>
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<td>Soil temperature at RS19__, probe no. 02 at depth 20 cm, discontinued 1973</td>
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<td>SOIR2001</td>
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<td>Soil temperature at RS26__, probe no. 01 at depth 10 cm</td>
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<td>SOIR8601</td>
<td>Soil temperature at RS86__, probe no. 01 at depth 10 cm</td>
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<td>SOIR8602</td>
<td>Soil temperature at RS86__, probe no. 02 at depth 20 cm</td>
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<td>SOIR8603</td>
<td>Soil temperature at RS86__, probe no. 03 at depth 30 cm</td>
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<td>SOIR8901</td>
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SOIR8902  Soil temperature at RS89__, probe no. 02 at depth 20 cm
SOIR8903  Soil temperature at RS89__, probe no. 03 at depth 30 cm
SOIT3102  Soil temperature at TS31__, probe no. 02 at depth 20 cm, discontinued 1976
SOIT3202  Soil temperature at TS32__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3302  Soil temperature at TS33__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3402  Soil temperature at TS34__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3502  Soil temperature at TS35__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3602  Soil temperature at TS36__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT3702  Soil temperature at TS37__, probe no. 02 at depth 20 cm, discontinued 1976
SOIR3801  Soil temperature at RS38__, probe no. 01 at depth 10 cm
SOIR3802  Soil temperature at RS38__, probe no. 02 at depth 20 cm
SOIR3803  Soil temperature at RS38__, probe no. 03 at depth 30 cm
SOIT7402  Soil temperature at TS74__, probe no. 02 at depth 20 cm, discontinued 1990
SOIT7502  Soil temperature at TS75__, probe no. 02 at depth 20 cm, discontinued 1990
SOIT7602  Soil temperature at TS76__, probe no. 02 at depth 20 cm, discontinued 1975
SOIT7702  Soil temperature at TS77__, probe no. 02 at depth 20 cm, discontinued 1975
RELRL8601 Relative humidity at RS86__, probe no. 01 at height 235 cm, discontinued 2017
RELRL8901 Relative humidity at RS89__, probe no. 01 at height 285 cm, discontinued 2017
AIRR0202  Air temperature at RS02__, probe no. 02 at height 225 cm
AIRR0203  Air temperature at RS02__, probe no. 03 at height 225 cm
AIRR0402  Air temperature at RS04__, probe no. 02 at height 325 cm
AIRR0403  Air temperature at RS04__, probe no. 03 at height 325 cm
AIRR1202  Air temperature at RS12__, probe no. 02 at height 190 cm
AIRR1203  Air temperature at RS12__, probe no. 03 at height 190 cm
AIRR2002  Air temperature at RS20__, probe no. 02 at height 220 cm
AIRR2003  Air temperature at RS20__, probe no. 03 at height 220 cm
AIRR2602  Air temperature at RS26__, probe no. 02 at height 200 cm
AIRR2603  Air temperature at RS26__, probe no. 03 at height 200 cm
AIRR0502  Air temperature at RS05__, probe no. 02 at height 200 cm
AIRR0503  Air temperature at RS05__, probe no. 03 at height 200 cm
AIRR1002  Air temperature at RS10__, probe no. 02 at height 200 cm
AIRR1003  Air temperature at RS10__, probe no. 03 at height 200 cm
AIRR3802  Air temperature at RS38__, probe no. 02 at height 100 cm
AIRR3803  Air temperature at RS38__, probe no. 03 at height 100 cm
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<td>AIRR8603</td>
<td>Air temperature at RS86__, probe no. 03 at height 235 cm</td>
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<td>AIRR8902</td>
<td>Air temperature at RS89__, probe no. 02 at height 285 cm</td>
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<tr>
<td>AIRR8903</td>
<td>Air temperature at RS89__, probe no. 03 at height 285 cm</td>
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</table>

**Enumerated Domain for Attribute: DBCODE**
- **MS005**: FSDB Database Code

**Enumerated Domain for Attribute: QC_LEVEL**
- **1A**: Data is published and unlikely to change - automated range checking and manual review has been conducted. Quality is indicated in data value qualifier flags
- **1D**: Data is published and unlikely to change - data is derived or aggregated from published data of level 1A
- **1P**: Data is provisional and subject to revision - preliminary quality checks have been performed
- **2A**: Data is published and unlikely to change - Level 1A data has been modified such that data gaps may be filled or problem data may be removed
- **2D**: Data is published and unlikely to change - data is derived or aggregated from published data of level 2A

**Enumerated Domain for Attribute: EVENT_CODE**
- **CALIBR**: Associated with the inspection or replacement of sensors for calibration
- **INSREM**: Sensor is installed or removed
- **LOGGER**: Change in data logger, data logger program, or wiring
- **MAINTE**: A maintenance event has occurred
- **METHOD**: Change in data collection method
- **NA**: No event is reported (not applicable)
- **QUALTY**: Event may directly affect data quality
- **WEATHR**: A weather event has occurred that may affect reading

**Enumerated Domain for Attribute: SOILTEMP_METHOD**
- **SOI115**: Mean daily soil temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 20 cm depth
- **SOI116**: Mean daily (sunrise to sunrise) soil temperature is determined from digitizing circular Partlow charts. Temperature is recorded by a Dual Recording Thermometer Model RFHTT with mercury bulb at 20 cm depth
- **SOI023**: Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 10 cm depth; mean temperature is output every 6 hours
- **SOI024**: Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 20 cm depth; mean temperature is output every 6 hours
- **SOI025**: Soil temperature is sampled by a Campbell Scientific model 107 thermistor at 30 cm depth; mean temperature is output every 6 hours
- **SOI020**: Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 10 cm depth with a Campbell Scientific data logger; mean temperature is output every 6 hours
- **SOI021**: Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 20 cm depth with a Campbell Scientific data logger; mean temperature is output every 6 hours
- **SOI022**: Soil temperature is sampled by type T thermocouple soldered from thermocouple wire at 30 cm depth with a Campbell Scientific data logger; mean temperature is output every 6 hours
- **SOI117**: Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T
thermocouple soldered from thermocouple wire at 10 cm depth (Daily output only)

Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 20 cm depth (Daily output only)

Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 30 cm depth (Daily output only)

Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 10 cm depth (See Method SOI020)

Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 20 cm depth (See Method SOI021)

Mean daily, max and min soil temperature is calculated by the Campbell Scientific datalogger based on 15 second samples. Instrument is type T thermocouple soldered from thermocouple wire at 30 cm depth (See Method SOI022)

Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Type T thermocouple wire at 10 cm depth (See Method SOI026)

Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Type T thermocouple wire at 20 cm depth (See Method SOI027)

Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Type T thermocouple wire at 30 cm depth (See Method SOI028)

Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Campbell Scientific model 107 thermistor at 10 cm depth (See Method SOI029)

Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Campbell Scientific model 107 thermistor at 20 cm depth (See Method SOI030)

Mean daily soil temperature is post-calculated from all 5 minute mean values for the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Campbell Scientific model 107 thermistor at 30 cm depth (See Method SOI031)
the day. Max-min values are based on 5 minute mean intervals and not instantaneous values. Campbell Scientific model 107 thermistor at 30 cm depth (See Method SOI031)

Enumerated Domain for Attribute: EXPOSURE
  C  Closed canopy
  O  Open canopy

Enumerated Domain for Attribute: FD1
  G  Good value
  M  Missing

Enumerated Domain for Attribute: FD2
  G  Good value
  M  Missing

Enumerated Domain for Attribute: FD3
  G  Good value
  M  Missing

Enumerated Domain for Attribute: FD4
  G  Good value
  M  Missing

Enumerated Domain for Attribute: PS_FLAG
  M  Missing
  E  Estimate
  G  Good value

Enumerated Domain for Attribute: TGI_FLAG
  G  Good value
  M  Missing

Enumerated Domain for Attribute: DBCODE
  MS005  FSDB Database Code