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

**Abstract:**

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

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2. Relative Humidity (Daily)

*<font size=-1>Sensors discontinued Oct 24 2017</font>*

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

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

*<font size=-1>Data is provided through an interactive application (<i>GLITCH</i>)</font>*
### 12. Relative Humidity (Finest resolution, e.g., hourly, 5 minute)

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

**Attribute List:**

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### 21. Soil temperature (Daily)

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

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

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**40. 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 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>AIRR1401</td>
<td>Air temperature at RS14__, probe no. 01 at height 285 cm</td>
<td></td>
<td>2003</td>
</tr>
<tr>
<td>AIRR1501</td>
<td>Air temperature at RS15__, probe no. 01 at height 180 cm</td>
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<td>1994</td>
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<td>AIRR1601</td>
<td>Air temperature at RS16__, probe no. 01 at height 180 cm</td>
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<td>AIRR1701</td>
<td>Air temperature at RS17__, probe no. 01 at height 60 cm</td>
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<td>1995</td>
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<td>AIRR1801</td>
<td>Air temperature at RS18__, probe no. 01 at height 100 cm</td>
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<td>1974</td>
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<td>AIRR1901</td>
<td>Air temperature at RS19__, probe no. 01 at height 100 cm</td>
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<td>1973</td>
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<td>AIRR2001</td>
<td>Air temperature at RS20__, probe no. 01 at height 220 cm</td>
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<tr>
<td>AIRR2401</td>
<td>Air temperature at RS24__, probe no. 01 at height 220 cm</td>
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<td>2004</td>
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<tr>
<td>AIRR2601</td>
<td>Air temperature at RS26__, probe no. 01 at height 200 cm</td>
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<td>2015</td>
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<tr>
<td>AIRR8601</td>
<td>Air temperature at RS86__, probe no. 01 at height 235 cm</td>
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<td>2017</td>
</tr>
<tr>
<td>AIRR8901</td>
<td>Air temperature at RS89__, probe no. 01 at height 285 cm</td>
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<td>2017</td>
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<td>AIRT3101</td>
<td>Air temperature at TS31__, probe no. 01 at height 100 cm</td>
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<td>AIRT3201</td>
<td>Air temperature at TS32__, probe no. 01 at height 100 cm</td>
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<td>AIRT3301</td>
<td>Air temperature at TS33__, probe no. 01 at height 100 cm</td>
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<td>1975</td>
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<tr>
<td>AIRT3401</td>
<td>Air temperature at TS34__, probe no. 01 at height 100 cm</td>
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<td>AIRT3501</td>
<td>Air temperature at TS35__, probe no. 01 at height 100 cm</td>
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<td>AIRT3601</td>
<td>Air temperature at TS36__, probe no. 01 at height 100 cm</td>
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<td>AIRT3701</td>
<td>Air temperature at TS37__, probe no. 01 at height 100 cm</td>
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<td>AIRR3801</td>
<td>Air temperature at RS38__, probe no. 01 at height 100 cm</td>
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<td>AIRT7401</td>
<td>Air temperature at TS74__, probe no. 01 at height 100 cm</td>
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<td>AIRT7501</td>
<td>Air temperature at TS75__, probe no. 01 at height 100 cm</td>
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<td>AIRT7601</td>
<td>Air temperature at TS76__, probe no. 01 at height 100 cm</td>
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<td>AIRT7701</td>
<td>Air temperature at TS77__, probe no. 01 at height 100 cm</td>
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<td>1975</td>
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<td>SOIO1302</td>
<td>Soil temperature at RS13O_, probe no. 02 at depth 20 cm</td>
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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
Enumerated Domain for Attribute: DBCODE
MS005  FSDDB 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 200 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 235 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 300 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 345 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
<table>
<thead>
<tr>
<th>Method</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR430</td>
<td>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.</td>
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<tr>
<td>AIR431</td>
<td>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.</td>
</tr>
<tr>
<td>AIR432</td>
<td>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.</td>
</tr>
<tr>
<td>AIR433</td>
<td>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.</td>
</tr>
<tr>
<td>AIR434</td>
<td>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.</td>
</tr>
<tr>
<td>AIR527</td>
<td>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)</td>
</tr>
<tr>
<td>AIR528</td>
<td>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)</td>
</tr>
<tr>
<td>AIR529</td>
<td>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)</td>
</tr>
<tr>
<td>AIR530</td>
<td>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)</td>
</tr>
<tr>
<td>AIR531</td>
<td>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)</td>
</tr>
<tr>
<td>AIR532</td>
<td>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)</td>
</tr>
<tr>
<td>AIR533</td>
<td>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)</td>
</tr>
<tr>
<td>AIR534</td>
<td>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)</td>
</tr>
<tr>
<td>AIR535</td>
<td>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)</td>
</tr>
<tr>
<td>AIR536</td>
<td>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)</td>
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<tr>
<td>AIR537</td>
<td>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)</td>
</tr>
<tr>
<td>AIR538</td>
<td>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)</td>
</tr>
<tr>
<td>AIR539</td>
<td>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)</td>
</tr>
</tbody>
</table>
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 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; 200 cm (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; 220 cm (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; 225 cm
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

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

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

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

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

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

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

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

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

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

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 100 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 235 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 285 cm height; mean, min, max temperature is output every 5 minutes

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

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

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

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

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

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: 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 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
AIRR3101  Air temperature at TS31__, probe no. 01 at height 100 cm, discontinued 1976
AIRR3201  Air temperature at TS32__, probe no. 01 at height 100 cm, discontinued 1975
AIRR3301  Air temperature at TS33__, probe no. 01 at height 100 cm, discontinued 1975
AIRR3401  Air temperature at TS34__, probe no. 01 at height 100 cm, discontinued 1975
AIRR3501  Air temperature at TS35__, probe no. 01 at height 100 cm, discontinued 1975
AIRR3601  Air temperature at TS36__, probe no. 01 at height 100 cm, discontinued 1975
AIRR3701  Air temperature at TS37__, probe no. 01 at height 100 cm, discontinued 1975
AIRR3801  Air temperature at RS38__, probe no. 01 at height 100 cm, discontinued 2017
AIRR7401  Air temperature at TS74__, probe no. 01 at height 100 cm, discontinued 1990
AIRR7501  Air temperature at TS75__, probe no. 01 at height 100 cm, discontinued 1990
AIRR7601  Air temperature at TS76__, probe no. 01 at height 100 cm, discontinued 1975
AIRR7701  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
<table>
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<th>Station Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>SOIR1001</td>
<td>Soil temperature at RS10__, probe no. 01 at depth 10 cm</td>
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<td>SOIR1002</td>
<td>Soil temperature at RS10__, probe no. 02 at depth 20 cm</td>
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<td>SOIR1003</td>
<td>Soil temperature at RS10__, probe no. 03 at depth 30 cm</td>
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<td>SOIR1102</td>
<td>Soil temperature at RS11__, probe no. 02 at depth 20 cm, discontinued 1977</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>SOIR1202</td>
<td>Soil temperature at RS12__, probe no. 02 at depth 20 cm</td>
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<td>SOIR1203</td>
<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 RS14__, probe no. 01 at depth 10 cm, discontinued 2003</td>
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<td>Soil temperature at RS14__, probe no. 02 at depth 20 cm, discontinued 2003</td>
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<td>SOIR1502</td>
<td>Soil temperature at RS15__, probe no. 02 at depth 20 cm, discontinued 1994</td>
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<td>Soil temperature at RS16__, probe no. 02 at depth 20 cm, discontinued 1994</td>
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<td>Soil temperature at RS17__, probe no. 02 at depth 20 cm, discontinued 1995</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>Soil temperature at RS20__, probe no. 01 at depth 10 cm</td>
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<td>Soil temperature at RS20__, probe no. 03 at depth 30 cm</td>
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<td>Soil temperature at RS24__, probe no. 01 at depth 10 cm, discontinued 2004</td>
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<td>Soil temperature at RS24__, probe no. 02 at depth 20 cm, discontinued 2004</td>
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<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>Soil temperature at RS26__, probe no. 02 at depth 20 cm</td>
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<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>SOIR8603</td>
<td>Soil temperature at RS86__, probe no. 03 at depth 30 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>
<td>Soil temperature at TS32__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<tr>
<td>SOIT3302</td>
<td>Soil temperature at TS33__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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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
Enumrated 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

Enumrated 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

Enumrated 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

Enumrated 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

Enumrated 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
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

AIR01301 Air temperature at RS13O_, probe no. 01 at height 435 cm, discontinued 2003

AIR0101 Air temperature at RS01__, probe no. 01 at height 100 cm, discontinued 1995

AIR0201 Air temperature at RS02__, probe no. 01 at height 225 cm, discontinued 2015

AIR0301 Air temperature at RS03__, probe no. 01 at height 235 cm, discontinued 1995

AIR0401 Air temperature at RS04__, probe no. 01 at height 325 cm, discontinued 2015

AIR0501 Air temperature at RS05__, probe no. 01 at height 200 cm, discontinued 2017

AIR0601 Air temperature at RS06__, probe no. 01 at height 100 cm, discontinued 1975

AIR0701 Air temperature at RS07__, probe no. 01 at height 100 cm, discontinued 1995

AIR0801 Air temperature at RS08__, probe no. 01 at height 100 cm, discontinued 1973

AIR0901 Air temperature at RS09__, probe no. 01 at height 100 cm, discontinued 1975

AIR1001 Air temperature at RS10__, probe no. 01 at height 200 cm, discontinued 2017

AIR1101 Air temperature at RS11__, probe no. 01 at height 100 cm, discontinued 1977

AIR1201 Air temperature at RS12__, probe no. 01 at height 190 cm, discontinued 2015

AIR1301 Air temperature at RS13__, probe no. 01 at height 275 cm, discontinued 2003

AIR1401 Air temperature at RS14__, probe no. 01 at height 285 cm, discontinued 2003

AIR1501 Air temperature at RS15__, probe no. 01 at height 180 cm, discontinued 1994

AIR1601 Air temperature at RS16__, probe no. 01 at height 180 cm, discontinued 1994

AIR1701 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
SOIO102   Soil temperature at RS01__, probe no. 02 at depth 20 cm, discontinued 2019
SOIO201   Soil temperature at RS02__, probe no. 01 at depth 10 cm
SOIO202   Soil temperature at RS02__, probe no. 02 at depth 20 cm
SOIO203   Soil temperature at RS02__, probe no. 03 at depth 30 cm
SOIO302   Soil temperature at RS03__, probe no. 02 at depth 20 cm, discontinued 1995
SOIO401   Soil temperature at RS04__, probe no. 01 at depth 10 cm
SOIO402   Soil temperature at RS04__, probe no. 02 at depth 20 cm
SOIO403   Soil temperature at RS04__, probe no. 03 at depth 30 cm
SOIO501   Soil temperature at RS05__, probe no. 01 at depth 10 cm
SOIO502   Soil temperature at RS05__, probe no. 02 at depth 20 cm
SOIO503   Soil temperature at RS05__, probe no. 03 at depth 30 cm
SOIO602   Soil temperature at RS06__, probe no. 02 at depth 20 cm, discontinued 1975
SOIO702   Soil temperature at RS07__, probe no. 02 at depth 20 cm, discontinued 1995
SOIO802   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
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<tr>
<th>Code</th>
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<td>Soil temperature at TS37__, probe no. 02 at depth 20 cm, discontinued 1976</td>
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<td>Soil temperature at TS74__, probe no. 02 at depth 20 cm, discontinued 1990</td>
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<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>Soil temperature at TS77__, probe no. 02 at depth 20 cm, discontinued 1975</td>
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<td>Relative humidity at RS86__, probe no. 01 at height 235 cm, discontinued 2017</td>
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<td>Relative humidity at RS89__, probe no. 01 at height 285 cm, discontinued 2017</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 RS04__, probe no. 03 at height 325 cm</td>
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<td>Air temperature at RS12__, probe no. 02 at height 190 cm</td>
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<td>Air temperature at RS12__, probe no. 03 at height 190 cm</td>
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<td>Air temperature at RS20__, probe no. 02 at height 220 cm</td>
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<td>Air temperature at RS38__, probe no. 03 at height 100 cm</td>
</tr>
<tr>
<td>AIRR8602</td>
<td>Air temperature at RS86__, probe no. 02 at height 235 cm</td>
</tr>
<tr>
<td>AIRR8603</td>
<td>Air temperature at RS86__, probe no. 03 at height 235 cm</td>
</tr>
<tr>
<td>AIRR8902</td>
<td>Air temperature at RS89__, probe no. 02 at height 285 cm</td>
</tr>
<tr>
<td>AIRR8903</td>
<td>Air temperature at RS89__, probe no. 03 at height 285 cm</td>
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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
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 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)

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)

**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)
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)

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)

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)

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)

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)

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 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; 190 cm (See Method AIR435)

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)

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)

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)

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

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)

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 225 cm height; mean, min, max temperature is output every 5 minutes

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)

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)

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)

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)

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)

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)

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)

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)

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)

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.

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

AIRR1301 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
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
SOIR1103  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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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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>AIRR0402</td>
<td>Air temperature at RS04__, probe no. 02 at height 325 cm</td>
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<tr>
<td>AIRR2003</td>
<td>Air temperature at RS20__, probe no. 03 at height 220 cm</td>
</tr>
<tr>
<td>AIRR2602</td>
<td>Air temperature at RS26__, probe no. 02 at height 200 cm</td>
</tr>
<tr>
<td>AIRR2603</td>
<td>Air temperature at RS26__, probe no. 03 at height 200 cm</td>
</tr>
<tr>
<td>AIRR0502</td>
<td>Air temperature at RS05__, probe no. 02 at height 200 cm</td>
</tr>
<tr>
<td>AIRR0503</td>
<td>Air temperature at RS05__, probe no. 03 at height 200 cm</td>
</tr>
<tr>
<td>AIRR1002</td>
<td>Air temperature at RS10__, probe no. 02 at height 200 cm</td>
</tr>
<tr>
<td>AIRR1003</td>
<td>Air temperature at RS10__, probe no. 03 at height 200 cm</td>
</tr>
<tr>
<td>AIRR3802</td>
<td>Air temperature at RS38__, probe no. 02 at height 100 cm</td>
</tr>
<tr>
<td>AIRR3803</td>
<td>Air temperature at RS38__, probe no. 03 at height 100 cm</td>
</tr>
<tr>
<td>AIRR8602</td>
<td>Air temperature at RS86__, probe no. 02 at height 235 cm</td>
</tr>
<tr>
<td>AIRR8603</td>
<td>Air temperature at RS86__, probe no. 03 at height 235 cm</td>
</tr>
<tr>
<td>AIRR8902</td>
<td>Air temperature at RS89__, probe no. 02 at height 285 cm</td>
</tr>
<tr>
<td>AIRR8903</td>
<td>Air temperature at RS89__, probe no. 03 at height 285 cm</td>
</tr>
</tbody>
</table>

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
- 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: 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: SOILTEMP_MAX_FLAG
- E: Estimated value
- M: Missing value
- Q: Questionable value
- A: Accepted value has passed all QC tests applied as represented by the quality level

Enumerated Domain for Attribute: SOILTEMP_MIN_FLAG
- E: Estimated value
- M: Missing value
- Q: Questionable value
- 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 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
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
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).
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).

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. 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. 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. Type T thermocouple wire at 30 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).

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

Air temperature at RS01__, probe no. 01 at height 100 cm, discontinued 1995
Air temperature at RS02__, probe no. 01 at height 225 cm, discontinued 2015
Air temperature at RS03__, probe no. 01 at height 235 cm, discontinued 1995
Air temperature at RS04__, probe no. 01 at height 325 cm, discontinued 2015
Air temperature at RS05__, probe no. 01 at height 200 cm, discontinued 2017
Air temperature at RS06__, probe no. 01 at height 100 cm, discontinued 1973
Air temperature at RS07__, probe no. 01 at height 100 cm, discontinued 1995
Air temperature at RS08__, probe no. 01 at height 100 cm, discontinued 1973
Air temperature at RS09__, probe no. 01 at height 100 cm, discontinued 1975
Air temperature at RS10__, probe no. 01 at height 200 cm, discontinued 2017
Air temperature at RS11__, probe no. 01 at height 100 cm, discontinued 1977
Air temperature at RS12__, probe no. 01 at height 190 cm, discontinued 2015
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 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
Air temperature at RS86__, probe no. 02 at height 235 cm

Air temperature at RS86__, probe no. 03 at height 235 cm

Air temperature at RS89__, probe no. 02 at height 285 cm

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
MAINTENANCE A maintenance event has occurred
METHOD Change in data collection method
NA No event is reported (not applicable)
QUALITY 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)

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

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

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

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

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

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

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

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

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

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

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

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: EXPOSURE
  C  Closed canopy
  O  Open canopy

Enumerated Domain for Attribute: FD1
  Good value
  M  Missing

Enumerated Domain for Attribute: FD2
  Good value
  M  Missing

Enumerated Domain for Attribute: FD3
  Good value
  M  Missing

Enumerated Domain for Attribute: FD4
  Good value
  M  Missing

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

Enumerated Domain for Attribute: TGI_FLAG
  Good value
  M  Missing

Enumerated Domain for Attribute: DBCODE
  MS005  FSDB Database Code