



Basic Climatological Station Metadata

Current status

Metadata compiled: 27 JUL 2025

Station: BRISBANE AERO

Bureau of Meteorology station number: 040223

Bureau of Meteorology district name: Moreton South Coast

State: QLD

World Meteorological Organization number: 94579

Identification: NO ID

Network Classification:

Station purpose: Synoptic, Upper Air, Aeronautical

Automatic Weather Station:



| Current Station Location | | | | |
|--|---------|------------------|--------------|------------|
| Latitude | Decimal | -27.4178 | Hour Min Sec | 27°25'4"S |
| Longitude | Decimal | 153.1142 | Hour Min Sec | 153°6'51"E |
| Station Height | 4 m | Barometer Height | 5 m | |
| Method of station geographic positioning | | | GPS | |

Year opened: 1929

Status: Closed

Station summary

No summary for this site has been written as yet.

Historical metadata for this site has not been quality controlled for accuracy and completeness. Data other than current station information, particularly earlier than 1998, should be considered accordingly. Information may not be complete, as backfilling of historical data is incomplete.

Prepared by the Bureau of Meteorology.

Contact us by phone on (03) 9669 4082, by fax on (03) 9669 4515, or by email on climatedata@bom.gov.au

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Basic Climatological Station Metadata
Current status

| | | | | | |
|-------------|---------------|------------|---------------|--------------------|-------------|
| Station: | BRISBANE AERO | Location: | BRISBANE AERO | State: | QLD |
| Bureau No.: | 040223 | WMO No.: | 94579 | Aviation ID: | NO ID |
| Latitude: | -27.4178 | Longitude: | 153.1142 | Opened: | 01 Jan 1929 |
| | | Elevation: | 4 m | Barometer Elev: | 5 m |
| | | | | Current Status: | Closed |
| | | | | Metadata compiled: | 27 JUL 2025 |

Observation summary

The table below indicates the approximate completeness of the record for individual element types within the Australian Data Archive for Meteorology. For elements not listed see the note below.



DAILY DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|--|-------------|------------|---------------------------|--------------------|--------------------|
| EVAPORATION | APR 1986 | FEB 2000 | 99.1 | 40 | 0 |
| EVAPORIMETER - MAXIMUM WATER TEMPERATURE | APR 1986 | FEB 2000 | 99.1 | 40 | 0 |
| GROUND MINIMUM TEMPERATURE | JUN 1949 | FEB 2000 | 95.5 | 157 | 22 |
| MAXIMUM AIR TEMPERATURE | JUN 1949 | FEB 2000 | 99.8 | 24 | 0 |
| MAXIMUM WIND GUST SPEED | OCT 1952 | FEB 2000 | 99.6 | 36 | 1 |
| SUNSHINE HOURS | JUL 1976 | FEB 2000 | 99.7 | 25 | 0 |
| WIND RUN ABOVE 10 FEET | OCT 1992 | FEB 2000 | 65.4 | 83 | 28 |
| WIND RUN BELOW 10 FEET | APR 1986 | FEB 2000 | 99.3 | 32 | 0 |
| RAINFALL | JUN 1949 | FEB 2000 | 100 | N/A | N/A |









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|-------------------------------|--|----------------------------|--------------------------------|---------------------------|--|---------------------------------------|--|
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| Bureau No.: 040223 | | WMO No.: 94579 | | Aviation ID: NO ID | | Opened: 01 Jan 1929 | |
| Latitude: -27.4178 | | Longitude: 153.1142 | | Elevation: 4 m | | Barometer Elev: 5 m | |
| | | | | | | Metadata compiled: 27 JUL 2025 | |

HOURLY DATA HOLDINGS - from 1 to 24 observations per day

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | FREQUENCY average daily | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|-------------------------|------------------|------------|------------------------------|--|--------------------------|--------------------------|
| AIR TEMPERATURE | JAN 1950 | FEB 2000 | 99.6 | 8.0 | 15 | 1 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 1 |
| DEW POINT | JAN 1950 | FEB 2000 | 99.6 | 8.0 | 15 | 1 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 1 |
| MEAN SEA LEVEL PRESSURE | JUL 1951 | FEB 2000 | 99.8 | 8.0 | 15 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 0 |
| SOIL TEMPERATURE - 10cm | APR 1986 | SEP 1987 | 97.6 | 2.0 | 2 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 0 |
| TOTAL CLOUD AMOUNT | JAN 1950 | FEB 2000 | 99.8 | 8.0 | 15 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 0 |
| WIND SPEED | JAN 1950 | FEB 2000 | 99.8 | 8.0 | 15 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 0 |
| UPPER AIR TEMPERATURE | JAN 1956 | FEB 2000 | 92.6 | 1.3 | 344 | 0 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 0 |
| UPPER AIR WIND SPEED | JAN 1950 | FEB 2000 | 93.1 | 4.0 | 156 | 15 |
| 1 8 5 0 | 1 9 0 0 | | 1 9 5 0 |  | 2 0 0 0 | 15 |

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RAINFALL INTENSITY DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|--------------------|-------------|------------|------------------------------|--------------------------|--------------------------|
| RAINFALL INTENSITY | MAY 1949 | FEB 2000 | 94.9 | 869 | 2 |
| 1 | 1 | 1 | 1 | 2 | |
| 8 | 9 | 9 | 9 | 0 | |
| 5 | 0 | 0 | 5 | 0 | |
| 0 | 0 | 0 | 0 | 0 | |

THERE ARE NO ONE-MINUTE DATA HOLDINGS

HALF-HOURLY DATA HOLDINGS

| OBSERVATION TYPE | FIRST MONTH | LAST MONTH | COMPLETENESS (% estimate) | FREQUENCY average daily | SINGLE DAYS MISSED | FULL MONTHS MISSED |
|------------------|-------------|------------|---------------------------|-------------------------|--------------------|--------------------|
| ALL ELEMENTS | JAN 1985 | FEB 2000 | 101.6 | 48.7 | N/A | 0 |

THERE ARE NO UPPER-AIR EDT DATA HOLDINGS

Holdings calculated up to 01 Jul 2025

The % complete figure is the completeness of observations averaged over all months of record, for the given station and observation type, taking gaps into account. For hourly holdings, the completeness is relative to the maximum number of daily observations for the site each month, and is therefore an estimate. For daily holdings, the completeness figure shown is exact.

The single days missed figure is the total number of days for which no observation was received, not including full missed months. The full months missed figure is the total of full month gaps over the period of record. Where an element is not included assumptions can generally be made about availability, and the list to use has been suggested below.

Unlisted element

Minimum air temperature

Wet bulb temperature

Soil temperature at 20, 50 & 100cm

Relative humidity

Minimum temp. of water in evaporimeter

Visual observations eg. weather, visibility

Sea related observations

Listed element to use

Maximum air temperature

Dew point

10cm soil temperature

Dew point

Evaporimeter - max water temp

Total cloud amount

Sea state

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Extended Climatological Station Metadata
All History

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|--------------------|---------------|-------------------|----------|---------------------|---------------|------------------------|-------------|---------------------------|-------------|
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| Bureau No.: | 040223 | WMO No.: | 94579 | Aviation ID: | NO ID | Opened: | 01 Jan 1929 | Current Status: | Closed |
| Latitude: | -27.4178 | Longitude: | 153.1142 | Elevation: | 4 m | Barometer Elev: | 5 m | Metadata compiled: | 27 JUL 2025 |

Station Observation Program Summary (Surface Observations) from 01/06/1949 to 14/02/2000

| Current Observation | Continuous | Half Hourly | Hourly |
|----------------------|------------|-------------|--------|
| Surface Observations | Y | Y | Y |

| Current Observation | Program Type | 12 AM | 3 AM | 6 AM | 9 AM | 12 PM | 3 PM | 6 AM | 9 AM |
|---------------------|--------------|-------|------|------|------|-------|------|------|------|
| Surface Observation | PERFORMED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | REPORTED | Y | Y | Y | Y | Y | Y | Y | Y |
| Surface Observation | SEASONAL | - | - | - | - | - | - | - | - |

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Station Equipment History

Equipment Install/Remove

Cloud Height (No Electronic History)

Humidity

01/JAN/1950 INSTALL Hygograph (Type Fielden S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Hygograph (Type Fielden S/N - Unknown) Surface Observations

Pressure Trend (No Electronic History)

Lightning (No Electronic History)

Sea Surface Temperature (No Electronic History)

Magnetic Bearing (No Electronic History)

Wind Direction

01/DEC/1987 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 74126/74068) Surface Observations
01/MAR/1986 INSTALL Wind Run Anemometer (Type Munro S/N - Unknown) Surface Observations
01/MAR/1986 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 74126/74068) Surface Observations
14/FEB/2000 REMOVE Wind Run Anemometer (Type Munro S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations

Wet Bulb Temperature

01/DEC/1987 INSTALL Temperature Probe - Wet Bulb (Type Rosemount S/N - 159) Surface Observations
14/FEB/2000 REMOVE Temperature Probe - Wet Bulb (Type Rosemount S/N - 159) Surface Observations

Solar Radiation (Long Wave) (No Electronic History)

Spectral Radiation (No Electronic History)

Maximum Temperature (No Electronic History)

Soil Temperature 10cm

01/AUG/1986 INSTALL Thermometer, Soil, 10cm (Type Dobros S/N - 202) Surface Observations
14/FEB/2000 REMOVE Thermometer, Soil, 10cm (Type Dobros S/N - 202) Surface Observations

Soil Temperature 20cm

01/AUG/1986 INSTALL Thermometer, Soil, 20cm (Type Dobros S/N - 543) Surface Observations
14/FEB/2000 REMOVE Thermometer, Soil, 20cm (Type Dobros S/N - 543) Surface Observations

Soil Temperature 50cm

01/AUG/1986 INSTALL Thermometer, Soil, 50cm (Type Dobros S/N - 2146) Surface Observations
14/FEB/2000 REMOVE Thermometer, Soil, 50cm (Type Dobros S/N - 2146) Surface Observations

Snow Height (No Electronic History)

Soil Temperature 100cm

01/AUG/1986 INSTALL Thermometer, Soil, 100cm (Type Dobros S/N - 218) Surface Observations
14/FEB/2000 REMOVE Thermometer, Soil, 100cm (Type Dobros S/N - 406) Surface Observations
21/AUG/1998 REPLACE Thermometer, Soil, 100cm (Now Dobros S/N - 406) Surface Observations

Sunshine Hours

01/AUG/1976 INSTALL Sunshine Recorder (Type Campbell-Stokes S/N - 5136) Surface Observations
14/FEB/2000 REMOVE Sunshine Recorder (Type Campbell-Stokes S/N - 5136) Surface Observations

Wind Run

01/MAR/1986 INSTALL Wind Run Anemometer (Type Munro S/N - Unknown) Surface Observations
01/MAR/1986 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Wind Run Anemometer (Type Munro S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

Minimum Temperature (No Electronic History)

Terrestrial Minimum Temperature

01/JUN/1949 INSTALL Thermometer, Terrestrial, Min (Type Dobbie S/N - 6176) Surface Observations
14/FEB/2000 REMOVE Thermometer, Terrestrial, Min (Type Dobbie S/N - 6176) Surface Observations

Visibility (No Electronic History)

Soil Temperature 5cm (No Electronic History)

Sub Surface Temperature (No Electronic History)

Electrical Conductivity (No Electronic History)

Oxygen Content (No Electronic History)

RF Reflectivity

01/AUG/1955 INSTALL Radar (Type 277F S/N - Unknown) Upper Air
01/AUG/1955 INSTALL Radar (Type 277F S/N - Unknown) WeatherWatch
01/JUL/1968 INSTALL Radar (Type WF44 S/N - P0008) Upper Air
01/JUL/1968 INSTALL Radar (Type WF44 S/N - P0008) WeatherWatch
01/NOV/1987 INSTALL Radar (Type WF44 S/N - Unknown) Upper Air
01/NOV/1987 INSTALL Radar (Type WF44 S/N - Unknown) WeatherWatch
01/NOV/1987 INSTALL Radar Tower (Type Lattice WF44 - 30 ft (Modified) S/N - Unknown) Infrastructure
01/JUL/1968 REMOVE Radar (Type 277F S/N - Unknown) Upper Air
01/JUL/1968 REMOVE Radar (Type 277F S/N - Unknown) WeatherWatch
01/MAY/1994 REMOVE Radar (Type WF44 S/N - P0008) Upper Air
01/MAY/1994 REMOVE Radar (Type WF44 S/N - P0008) WeatherWatch
14/FEB/2000 REMOVE Radar (Type WF44 S/N - Unknown) Upper Air
14/FEB/2000 REMOVE Radar (Type WF44 S/N - Unknown) WeatherWatch
14/FEB/2000 REMOVE Radar Tower (Type Lattice WF44 - 30 ft (Modified) S/N - Unknown) Infrastructure

Total Column Ozone Amount (No Electronic History)

Pressure

01/DEC/1987 INSTALL Barometer (Type Kew pattern mercury S/N - 1881) Surface Observations
01/JAN/1957 INSTALL Barometer (Type Kew pattern mercury S/N - Unknown) Surface Observations
01/DEC/1987 INSTALL Barometer (Type Vaisala DPA25 S/N - 286781) Surface Observations
03/JUN/1996 REMOVE Barometer (Type Kew pattern mercury S/N - 1559) Surface Observations
03/JUN/1996 REMOVE Barometer (Type Kew pattern mercury S/N - 1881) Surface Observations
14/FEB/2000 REMOVE Barometer (Type Vaisala PA11A S/N - 1130013) Surface Observations
01/DEC/1987 REPLACE Barometer (Now Kew pattern mercury S/N - 1559) Surface Observations
22/MAY/1996 REPLACE Barometer (Now Vaisala DPA25 S/N - 359510) Surface Observations
24/SEP/1996 REPLACE Barometer (Now Vaisala PA11A S/N - 1130013) Surface Observations

Evaporation

01/MAR/1986 INSTALL Evaporation Pan (Type Class A S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Evaporation Pan (Type Class A S/N - Unknown) Surface Observations

Rainfall

01/MAY/1949 INSTALL Pluviograph (Type Dines syphoning S/N - 336) Rainfall Intensity
14/FEB/2000 REMOVE Pluviograph (Type Dines syphoning S/N - 336) Rainfall Intensity
01/JUN/1949 INSTALL Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
01/DEC/1987 INSTALL Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Surface Observations

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Station Equipment History (continued)

Equipment Install/Remove(Continued)

14/FEB/2000 REMOVE Raingauge (Type 203 mm (8in) - 200mm capacity S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Raingauge (Type Rimco TBRG (type unspecified) S/N - 18690) Rainfall Intensity
14/FEB/2000 REMOVE Raingauge (Type Rimco TBRG (type unspecified) S/N - 18690) Surface Observations
30/JUN/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 95-115) Rainfall Intensity
30/JUN/1996 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 95-115) Surface Observations
06/MAY/1997 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-171) Rainfall Intensity
06/MAY/1997 REPLACE Raingauge (Now HS TB3A-0.2 S/N - 96-171) Surface Observations
06/OCT/1998 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 18690) Rainfall Intensity
06/OCT/1998 REPLACE Raingauge (Now Rimco TBRG (type unspecified) S/N - 18690) Surface Observations
30/JUN/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 95-115) Rainfall Intensity
30/JUN/1996 SHARE Raingauge (Type HS TB3A-0.2 S/N - 96-171) Rainfall Intensity
30/JUN/1996 SHARE Raingauge (Type Rimco 7499 TBRG S/N - Unknown) Rainfall Intensity
30/JUN/1996 SHARE Raingauge (Type Rimco TBRG (type unspecified) S/N - 18690) Rainfall Intensity

River Height (No Electronic History)

Solar Radiation (No Electronic History)

Solar Radiation (Direct) (No Electronic History)

Turbidity (No Electronic History)

Sea Water Level (No Electronic History)

Sea Water Temperature (No Electronic History)

Wind Speed

01/DEC/1987 INSTALL Anemometer (Type Synchrotac Vane - Type 706 S/N - 74126/74068) Surface Observations
01/MAR/1986 INSTALL Wind Run Anemometer (Type Munro S/N - Unknown) Surface Observations
01/MAR/1986 INSTALL Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Anemometer (Type Synchrotac Vane - Type 706 S/N - 74126/74068) Surface Observations
14/FEB/2000 REMOVE Wind Run Anemometer (Type Munro S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Wind Run Anemometer (Type Unknown S/N - Unknown) Surface Observations

Air Temperature

01/DEC/1987 INSTALL Temperature Probe - Dry Bulb (Type Rosemount S/N - 121) Surface Observations
14/FEB/2000 REMOVE Temperature Probe - Dry Bulb (Type Rosemount S/N - 121) Surface Observations
01/JAN/1950 INSTALL Thermograph (Type Fielden S/N - Unknown) Surface Observations
14/FEB/2000 REMOVE Thermograph (Type Fielden S/N - Unknown) Surface Observations

Surface Inclination (No Electronic History)

The following table summarises information on field performance checks available electronically over the period indicated. The number of instances an instrument was found to fail field performance checks should only be used as a guide. A system of data quality flags is implemented by the Bureau of Meteorology to indicate the data quality of an observation as determined by a mutli-stage quality control process.

| Available Date Range | Element | Fail Field Performance Check |
|---------------------------|----------------------|------------------------------|
| 23/JUL/1999 - 23/JUL/1999 | Wind Direction | 0 |
| 30/MAR/1998 - 23/JUL/1999 | Wet Bulb Temperature | 0 |
| 02/SEP/1999 - 02/SEP/1999 | RF Reflectivity | 0 |
| 30/MAR/1998 - 14/FEB/2000 | Pressure | 0 |

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Station Equipment History (continued)

| Available Date Range | Element | Fail Field Performance Check |
|---------------------------|-----------------|------------------------------|
| 06/OCT/1998 - 23/JUL/1999 | Rainfall | 1 |
| 23/JUL/1999 - 23/JUL/1999 | Wind Speed | 0 |
| 30/MAR/1998 - 23/JUL/1999 | Air Temperature | 0 |

Station Detail Changes

01/DEC/1987 CLASSIFICATION Fielden (FFD) ENDED 14-02-2000
14/FEB/1997 CLASSIFICATION Regional Basic Synoptic Network (RBSN) ENDED 14-02-2000
01/JAN/1929 STATION - (nondb seeding) Opened
01/JAN/1929 STATION - (nondb seeding) aero_ht Changed to 4
01/JAN/1929 STATION - (nondb seeding) bar_ht Changed to 5
01/JAN/1929 STATION - (nondb seeding) bar_ht_deriv Changed to MAP 1:250 000
01/JAN/1929 STATION - (nondb seeding) latitude Changed to -27.3858
01/JAN/1929 STATION - (nondb seeding) longitude Changed to 153.1164
01/JAN/1929 STATION - (nondb seeding) name Changed to BRISBANE AERO
01/JAN/1929 STATION - (nondb seeding) stn_ht Changed to 4
01/JAN/1929 STATION - (nondb seeding) stn_ht_deriv Changed to MAP 1:250 000
14/FEB/2000 STATION Closed
14/FEB/2000 STATION aviation_id Changed to
01/JAN/1929 STATION aviation_id Changed to YBBN
01/NOV/1987 STATION latitude Changed to -27.4178
01/AUG/1955 STATION latitude Changed to -27.4217
01/JUN/1949 STATION latitude Changed to -27.4303
01/JUN/1949 STATION latlon_deriv Changed to GPS
01/AUG/1955 STATION latlon_deriv Changed to GPS
01/NOV/1987 STATION latlon_deriv Changed to GPS
01/JUN/1949 STATION latlon_error Changed to
01/AUG/1955 STATION latlon_error Changed to
01/NOV/1987 STATION latlon_error Changed to
01/AUG/1955 STATION longitude Changed to 153.0808
01/JUN/1949 STATION longitude Changed to 153.0817
01/NOV/1987 STATION longitude Changed to 153.1142
04/FEB/1998 STATION lu_0_100m Changed to Airport
04/FEB/1998 STATION lu_100m_1km Changed to Airport
04/FEB/1998 STATION lu_1km_10km Changed to City area, buildings > 10 metres (3 storey)
04/FEB/1998 STATION soil_type Changed to sand
04/FEB/1998 STATION surface_type Changed to fully covered by grass
14/FEB/2000 STATION wmo_num Changed to
01/JAN/1929 STATION wmo_num Changed to 94578
25/AUG/2020 STATION wmo_num Changed to 94579

System Changes

14/FEB/2000 SYSTEM Infrastructure Ceased
01/JAN/1943 SYSTEM Infrastructure Commenced

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| | | | | Barometer Elev: | 5 m | Metadata compiled: | 27 JUL 2025 |

Station Equipment History (continued)

System Changes(Continued)

- 14/FEB/2000 SYSTEM Rainfall Intensity Ceased
- 01/MAY/1949 SYSTEM Rainfall Intensity Commenced
- 14/FEB/2000 SYSTEM Surface Observations Ceased
- 01/JUN/1949 SYSTEM Surface Observations Commenced
- 14/FEB/2000 SYSTEM Upper Air Ceased
- 01/JAN/1943 SYSTEM Upper Air Commenced
- 14/FEB/2000 SYSTEM WeatherWatch Ceased
- 01/AUG/1955 SYSTEM WeatherWatch Commenced

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Notes on these metadata

The following notes have been compiled to assist with interpreting the metadata provided in this document. These notes are subject to change as the network evolves. Changes in station-specific metadata occur more frequently, both as recent changes are recorded and historical information is transferred from paper file to electronic database.

Reliability of the metadata

The Commonwealth Bureau of Meteorology maintains information on more than 20,000 stations which have operated since observations began in the mid 1800s. The amount of information available for each of these sites and its associated uncertainty are influenced by a number of factors including the type and purpose of the station and the time over which it operated.

Early information about stations was held only on paper file. In 1998 a corporate electronic database was established to help maintain information about the network and its components. The number of parameters recorded about a station is now much greater than before this database was established. The national database has also helped improve consistency in the metadata through the implementation of predefined fields. As a result, and through the refinement of operating procedures, station metadata recorded since 1998 are of a higher overall standard than previously, although occasional omissions and errors are still possible.

The Bureau is part way through a task of entering historical information held on paper file into the corporate database. **Until this process is completed there will remain large gaps in the information contained in these metadata documents and considerable caution should be used when deriving conclusions from the metadata.** As an example, two consecutive entries about a rain gauge dated 50 years apart may appear in the equipment metadata. This may either mean that nothing happened to that instrument over the 50 years, or that information for the intervening period has yet to be entered into the database. Similarly, if no information was available about instruments at a site when it was first established, fields which were required to have a value present may have used the earliest information available as a best-guess estimate. Sometimes this was the metadata current when the database was established in 1998. In some instances there may be gaps in metadata relevant to the post 1998 period.

For the above reasons it is recommended that all metadata prior to 1998 be considered as indicative only, and used with caution, unless it has been quality controlled. The Bureau of Meteorology should be contacted if further information or confirmation of the data is required. Depending on the nature of the inquiry there may be a fee associated with this request. Contact details are provided in the telephone book for each capital city or the Bureau's web site at:
<http://www.bom.gov.au>

The following pages contain explanatory notes for selected terms found in this document.

Station Number

The Bureau of Meteorology station number uniquely specifies a station and is not intended to change over time, although on very rare occasions a station number may change or be deleted from the record (usually to correct an error). Generally a new station number is established if an existing station changes in a way that would affect the climate data record for that site (measured in terms of air temperature and precipitation). Significant station moves are an example of this.

Some stations also possess a World Meteorological Organization (WMO) station number. The WMO number is different to the Bureau of Meteorology number. It also uniquely specifies a station at any given time but can be reassigned to another station if the new station takes priority in the global reporting network. Only selected stations will have a WMO number. Significant stations may maintain their WMO number for many decades.

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Notes on these metadata

Network Classification

| |
|--|
| SUPPORTING the BASIC CLIMATE SERVICE |
| Global Climate Observing System (GCOS) |
| GCOS Upper Air Network (GUAN) |
| GCOS Surface Network (GSN) |
| National Climate Network {not yet assigned} |
| Reference Climate Stations (RCS) |
| Regional Basic Climatological Network (RBCN) |
| CLIMAT Stations (CLC) |
| CLIMAT TEMP Stations (CLT) |
| SUPPORTING the NATIONAL WEATHER WATCH SYSTEM |
| WMO Global Observing System (GOS) |
| GOS Upper Air Network |
| GOS Satellite Network |
| Global Atmospheric Watch |
| Background Atmospheric Pollution Monitoring Network (BAPMON) |
| Basic Ozone Network |
| Basic Solar and Terrestrial Radiation Network |
| Regional Basic Synoptic Network (RBSN) |
| WMO Global Oceanic Observing System (GOOS) |
| SUPPORTING the BASIC WEATHER SERVICE (BWS) |
| BWS Land Network |
| Significant Land Locations |
| Capital City Mesonets |
| National Benchmark Network for Agrometeorology (NBNA) |
| BWS Marine Network |
| Significant Coastal Locations |
| Open Ocean Network |
| BWS Upper Air Network |
| Major Significant Locations |
| BWS Remote Sensing Network |
| Weather Watch Radar Network |
| Fire Weather Wind Mesonets |
| High Resolution Satellite |
| SUPPORTING the BASIC HYDROLOGICAL SERVICE |
| Regional Flood Warning Network |
| Water Resources Assessment Network |
| Global Hydrological Network |
| Global Terrestrial Observing System (GTOS) |
| World Hydrological Cycle Observing System (WHYCOS) |
| National Hydrological Network |

Networks of stations are defined for a variety of purposes (as defined in above table).

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Notes on these metadata

Network Classification Continued....

Stations may be included in several different networks, which may change over time. The table on the previous page lists current network classifications related to the scientific purpose of the network. Some of these networks - the GCOS network for instance - are components of a global network. Entries in the database for some networks may not be complete, thus not properly representing the status of the network. The composition of the network will usually change over time. While several of the networks have international significance, other network classifications have been developed to aid operational management.

Station Purpose

The station purpose can be classified according to the observation program listed below. Parameters in brackets list some of the various different configurations which occur.

- Synoptic [Seasonal, River Height, Climatological, Telegraphic Rain, Aeronautical, Upper Air]
- Climatological [Seasonal, Telegraphic Rain]
- Aeronautical
- Rainfall [River Height]
- River Height
- Telegraphic Rain [Non-Telegraphic River Height, Telegraphic River Height]
- Non-Telegraphic Rain [Telegraphic River Height]
- Evaporation [Rainfall, River Height, Telegraphic River Height, Non-Telegraphic River Height, Telegraphic Rain, Non-Telegraphic Rain]
- Pluviograph [Rainfall, Telegraphic Rain, Non-Telegraphic Rain, River Height, Telegraphic River Height, Non-Telegraphic River Height]
- Radiation
- Lightning Flash Counter
- Public Information
- Local Conditions
- Radar Site
- Unclassified
- No Routine Observations

Note: Telegraphic observations are those which are sent by some electronic means be it a phone or telegram to the responsible Bureau office. It is a term which is historically linked to analogue non automatic data transmission.

Station Observation Program Summary

Surface Observations

The following terms are used to describe the frequency of surface observations at a site. Historical observation programs will typically be missing for many sites until the database is backfilled with information.

Set a)

- Continuous Program
 - More than half hourly observations sent (eg an automatic weather station {AWS} which continuously transmits 10 minute observations). This will automatically include half hourly and hourly observations programs.
- Half hourly observations
 - Half hourly observations sent. This will automatically include hourly observations.
- Hourly observations
 - Hourly observations sent only. Stations report on non-synoptic hours (ie. 0100, 0200, 0400, 0500, etc)

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Notes on these metadata

Surface observations continued....

Set b)

- Performed
 - Observations performed, instruments read and observations recorded
- Reported
 - Observations performed, instruments read and reported real time
- Seasonal
 - The program may only be performed during a defined season (such as Fire Weather observations) or the routine program may increase in reporting frequency and/or parameters. The program dates are currently modified at the start and end of each season for stations performing seasonal observations. Historically this was not always the case.

Current Station Equipment Summary

Equipment listed in this metadata product is catalogued under one of systems listed below, appropriate to its application. The "Infrastructure" category has been included since it contains information about the mast height of an anemometer (if present).

- Flood Warning
- Infrastructure
- Radiation
- Rainfall Intensity
- Surface Observations
- Upper Air
- Weather Watch {RADAR}

Station Equipment History

Equipment Install/Remove

One of four types of actions can be performed on an instrument in this listing:

Install - A new instrument is installed at the site. This can be either a completely new addition (eg the first barometer at the site), or the replacement of an existing instrument with a different type (eg replacing mercury barometer with electronic barometer)

Remove - An instrument can be removed either when it is no longer necessary to measure a particular element, or when the element is to be measured by an instrument of a different type (see under "Install" above)

Replace - This occurs when one instrument is replaced with another of the same type (eg Kew pattern mercury barometer replacing another Kew pattern mercury barometer)

Share - The same instrument is used for observations under two (or more) systems (eg a rain gauge may be used within both Surface Observations and Rainfall Intensity systems)

Unshare - The instrument is no longer shared between systems

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Notes on these metadata

Calibration

During a site inspection an instrument will be calibrated as either being within or not within the specified tolerance in accuracy.

Where a quantitative calibration result can be achieved by comparison to a transfer standard (eg barometer comparisons and tipping bucket rain gauge calibrations), the instrument will be recorded as being within or outside the required tolerance. Instruments (such as 203mm rain gauges, screens and evaporation pans) where quantitative calibrations cannot be derived should be regarded as meeting specifications when the instrument is in 'good working order'.

This product provides a summary table of the number of times an instrument was found to be out of calibration

Station Detail Changes

This set of metadata indicates when some aspect of the general information about a station has changed.

- STATION

Metadata which are categorised as pertaining to STATION are items of (textual) information describing a specific attribute of the station. A reference to (nondB seeding) indicates initial information of this field has been sourced from a previous database.

Station position

- Latitude and longitude

Derivation of station latitude and longitude, defined by the location of the rain gauge when it is present, has changed over time. Current practice is to locate or verify open and operational station latitude and longitude based on Global Positioning System equipment. Methods used to locate a station as described in this product (latlon_deriv) are as follows: GPS, MAP 1:10000, MAP 1:12500, MAP 1:25000, MAP 1:50000, MAP 1:100000, MAP 1:250000, SURVEY, and Unknown (which is more commonly represented by a null value). The field latlon_error should be used with caution as the method of determining this value has been interpreted in different ways over time.

- Height

Determination of heights for observing sites is by survey where possible. Otherwise height may be determined using a Digital Aneroid Barometer and a known surveyed point, or derived from map contours. The source of height is provided in the corresponding parameter with a suffix of "_deriv".

Heights which may appear in these metadata are:

- aero_ht
 - The official elevation of the aerodrome which normally corresponds to the altitude of the highest threshold of the runways at that airport;
- bar_ht
 - this represents the height of the mercury barometer cistern or the digital aneroid barometer above mean sea level (MSL);
- stn_ht
 - this normally represents the height of the rain gauge above MSL

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Notes on these metadata

- Land Use

To assist the long term understanding of climate change it is important to be able to determine the differences over time which are attributed to variations in the climate. Since land use has an effect on the micro climate around the site, and changes in land use will therefore affect the climate record, it is important that the characteristics of the site are monitored. Soil types are recorded as they affect the land use and also add to the knowledge of the site details.

Defined Land use Types.

- Non-vegetated (barren, desert)
- Coastal or Island
- Forest
- Open farmland, grassland or tundra
- Small town, less than 1000 population
- Town 1000 to 10,000 population
- City area with buildings less than 10 metres (3 stories)
- City area with buildings greater than 10 metres (3 stories)
- Airport

The land use code is entered on the station inspection form in the ranges 0 to 100 m, 100 to 1 km and 1km to 10 km; ie:

- lu_0_100m: Land Use 0 to 100 metres from the enclosure
- lu_100m_1km: Land Use 100 metres to 1 kilometre
- lu_1km_10km: Land Use 1 kilometre to 10 kilometres

Defined Soil Type (At Enclosure).

- unable to determine
- sand
- black soil
- clay
- rock
- red soil
- other

Surface Type (At Enclosure).

- unable to determine
- fully covered by grass
- mostly covered by grass
- partly covered by grass
- bare ground
- sand
- concrete
- asphalt
- rock
- other

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