ACORN-SAT station catalogue

Report 5 for the Independent Peer Review of the ACORN-SAT data-set
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Notes

Acronyms

AWS = Automatic Weather Station

Site Photos

Site photos refer to the most recently opened site.

Google Maps

Map scales differ throughout the Catalogue.
Station site locations indicated represent approximate positions only.

Station site
Automatically generated Google marker
Adelaide

Site information
Site name: ADELAIDE
Site number: 023090
Latitude: 34.92 °S
Longitude: 138.62 °E
Elevation: 48 m
Locality: Adelaide, SA

Nearest ACORN-SAT sites
023373  NURIROOTPA (61 km)
021133  SNOWTOWN (134 km)
022823  CAPE BORDA (206 km)

Details
The recording site is Adelaide, 023090 (pictured). The type of land within 100 metres of this site is city area with buildings greater than ten metres in height. Further out, the land within one kilometre of this site is also city area (with buildings greater than ten metres in height). The land within ten kilometres is also city area (with buildings greater than ten metres in height). Adelaide’s site is fully covered by grass and has clay soil.

History
This site was previously located at Adelaide West Terrace (023000) for the period from 1910 to 1979. From 1977 to the present, measurements were taken from Adelaide (023090). An AWS was installed at the site on 26 October 1992.
Albany

Site information
Site name: ALBANY
Site number: 009741
Latitude: 34.94 °S
Longitude: 117.80 °E
Elevation: 68 m
Locality: Albany, WA

Nearest ACORN-SAT sites
010579   KATANNING (141 km)
009510   BRIDGETOWN (188 km)
009518   CAPE LEEUWIN (252 km)

Details
The recording site is Albany, 009741 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is grassland. The land within ten kilometres is also grassland. Albany’s site is partly covered by grass and has black soil.

History
This site was previously located at Albany (009500) for the period from 1910 to 1965. From 1965 to the present, measurements were taken from Albany Airport (009741). An AWS was installed at the site on 17 August 1992.
Alice Springs

Site information
Site name: ALICE SPRINGS
Site number: 015590
Latitude: 23.80 °S
Longitude: 133.89 °E
Elevation: 546 m
Locality: Alice Springs, NT

Nearest ACORN-SAT sites
015135  TENNANT CREEK (463 km)
015666  RABBIT FLAT (567 km)
013017  GILES (583 km)

Details
The recording site is Alice Springs, 015590 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres is grassland. Alice Springs’ site is bare ground and has red soil.

History
This site was previously located at Alice Springs Post Office (015540) for the period from 1910 to 1953. From 1944 to the present, measurements were taken from Alice Springs Airport (015590). An AWS was installed at the site on 21 March 1991.
Amberley

Site information
Site name: AMBERLEY
Site number: 040004
Latitude: 27.63 °S
Longitude: 152.71 °E
Elevation: 24 m
Locality: Amberley, Qld

Nearest ACORN-SAT sites
040842 BRISBANE AIRPORT (49 km)
040043 CAPE MORETON (100 km)
058012 YAMBA (211 km)

Details
The recording site is Amberley, 040004 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is city area with buildings less than ten metres in height. Amberley's site is bare ground and has black soil.

History
The Amberley AMO site (040004) was opened in 1942. In 1997, the site was moved to its current location, while the old site continued to operate under a different site number (040910) between 1997 and 1998 as a comparison. An AWS was installed at the site on 3 July 1997.
Site information
Site name: BARCALDINE
Site number: 036007
Latitude: 23.55 °S
Longitude: 145.29 °E
Elevation: 267 m
Locality: Barcaldine, Qld

Nearest ACORN-SAT sites
036031 LONGREACH (104 km)
044021 CHARLEVILLE (333 km)
030045 RICHMOND (384 km)

Details
The recording site is Barcaldine, 036007 (pictured). The land use within 100 metres of this site is town (population between 1000 and 10,000). Further out, the land use within one kilometre of this site is also town (population between 1000 and 10,000). The land type within ten kilometres is open farmland or grassland. The Barcaldine site is partly covered by grass and has red soil.

History
Measurements have been taken from the Barcaldine (036007) site since 1962.
Bathurst

Site information
Site name: BATHURST
Site number: 063005
Latitude: 33.43 °S
Longitude: 149.56 °E
Elevation: 713 m
Locality: Bathurst, NSW

Nearest ACORN-SAT sites
067105 RICHMOND (115 km)
066062 SYDNEY (160 km)
065070 DUBBO (163 km)

Details
The recording site is Bathurst Agricultural Research Station, 063005 (pictured). Land use within 100 metres of this site is open grassland or farmland. Further out, the land within one kilometre of this site is the city of Bathurst (population 28,992). The land within ten kilometres is open farmland and grassland. The Bathurst site is fully covered by grass and has red soil.

History
The original site at the Bathurst Agricultural Research Station (063005) took measurements for the period from 1910 to 1998. In 1996, a comparison site (063305) was established 200 metres from the original site and was operated until 1998. From 1998 until the present, this site has operated as the Bathurst Agricultural Research Station site (063005).
Birdsville

Site information
Site name: BIRDSVILLE
Site number: 038026
Latitude: 25.90°S
Longitude: 139.35°E
Elevation: 47 m
Locality: Birdsville, Qld

Nearest ACORN-SAT sites
038003 BOULIA (337 km)
017043 OODNADATTA (429 km)
017031 MARREE (436 km)

Details
The recording site is Birdsville, 038026 (pictured). The land type within 100 metres of this site is non-vegetated, barren desert. Further out, the land use within one kilometre of this site is small town (population less than 1000). The land type within ten kilometres is non-vegetated, barren desert. Birdsville’s site is partly covered by grass and has sandy soil.

History
This site was previously located at Birdsville Police Station (038002) for the period from 1954 to 2005. From 2000 to the present, measurements were taken from the current Birdsville airport (038026) site. An AWS was installed at the site on 27 June 2000.
Boulia

Site information
Site name: BOULIA
Site number: 038003
Latitude: 22.91 °S
Longitude: 139.90 °E
Elevation: 162 m
Locality: Boulia, Qld

Nearest ACORN-SAT sites
038026  BIRDSVILLE (337 km)
037010  CAMOOWEAL (380 km)
030045  RICHMOND (413 km)

Details
The recording site is Boulia, 038003 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is small town (population less than 1000). Boulia’s site is mostly covered by grass and has red soil.

History
Measurements have been taken from the Boulia (038003) site since 1910.
Bourke

Site information
Site name: BOURKE
Site number: 048245
Latitude: 30.04 °S
Longitude: 145.95 °E
Elevation: 107 m
Locality: Bourke, NSW

Nearest ACORN-SAT sites
048027  COBAR (162 km)
052088  WALGETT (209 km)
046043  WILCANNIA (299 km)

Details
The recording site is Bourke Airport AWS, 048245 (pictured). The type of land within 100 metres of this site is grassland. Further out, the land use within one kilometre of this site is airport. The land within ten kilometres is open farmland or grassland. Bourke’s site is mostly covered by grass and has red soil.

History
This site was previously located at Bourke Post Office (048013) for the period from 1910 to 1996. From 1994 to 1999, measurements were taken from Bourke Airport (048239). From 1998 to the present, measurements were taken from the current site, Bourke Airport AWS (048245). A change in instrumentation occurred on 15 June 1998, in the move to Bourke Airport AWS (048245), when the temperature measurements were changed from manually read thermometers to automatic.
Bridgetown

Site information
Site name: BRIDGETOWN
Site number: 009510
Latitude: 33.96 °S
Longitude: 116.14 °E
Elevation: 150 m
Locality: Bridgetown, WA

Nearest ACORN-SAT sites
009518 CAPE LEEUWIN (103 km)
010579 KATANNING (135 km)
010917 WANDERING (151 km)

Details
The recording site is Bridgetown, 009510 (pictured). The land use within 100 metres of this site is town (with 1000 to 10,000 population). Further out, the land use within one kilometre of this site is also town (with 1000 to 10,000 population). The land within ten kilometres is grassland. Bridgetown’s site is fully covered by grass and the type of soil is sand.

History
This site was located at Bridgetown (009510) since it was opened in 1910.
Site information
Site name: BRISBANE AIRPORT
Site number: 040842
Latitude: 27.39 °S
Longitude: 153.12 °E
Elevation: 5 m
Locality: Brisbane, Qld

Nearest ACORN-SAT sites
040004 AMBERLEY (49 km)
040043 CAPE MORETON (52 km)
050012 YAMBA (228 km)

Details
The recording site is Brisbane Airport, 040842 (pictured). The type of land use within 100 metres of this is an airport. Further out, the land use within one kilometre of this site is still an airport. The land within ten kilometres is city area, with buildings greater than ten metres in height (equivalent to three-storeys). Brisbane Airport’s site is mostly covered by grass and has a sandy soil.

History
This site was previously located at Brisbane Aero (040223) for the period from 1949 to 2000. From 1994 to the present, measurements were taken from a second Brisbane Aero site (040842). The more recent Brisbane Aero site is an AWS, indicating that the change in sites also resulted in a change in instrumentation. An AWS was installed on 10 December 1992 at the more recent Brisbane Aero site (040842).
Broome Airport

Site information
Site name: BROOME AIRPORT
Site number: 003003
Latitude: 17.95°S
Longitude: 122.24°E
Elevation: 7 m
Locality: Broome, WA

Nearest ACORN-SAT sites
004106  MARBLE BAR (444 km)
004032  PORT HEDLAND AIRPORT (465 km)
002012  HALLS CREEK (575 km)

Details
The recording site is Broome Airport, 003003 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres is city, with buildings less than ten metres high. Broome’s site is partly covered by grass and has red soil.

History
This site was previously located at Broome Post Office (003002) for the period from 1910 to 1944. From 1939 to the present, measurements were taken from Broome Airport (003003). In 1995, Broome Airport moved to a new site. The old site changed to a new name, Broome comparison (003089), and was left open from 1995 until 2000 as a comparison. An AWS was installed on 27 July 1995 at Broome Airport (003003).
Bundaberg

Site information
Site name: BUNDABERG
Site number: 039128
Latitude: 24.89 °S
Longitude: 152.32 °E
Elevation: 27 m
Locality: Bundaberg, Qld

Nearest ACORN-SAT sites
039066  GAYNDAH (106 km)
039083  ROCKHAMPTON (253 km)
040043  CAPE MORETON (263 km)

Details
The recording site is Bundaberg, 039128 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within 1 kilometre of this site is also airport. The land use within 10 kilometres is city area with buildings less than 10 m in height. Bundaberg’s site is partly covered by grass and has clay soil.

History
This site was previously located at Bundaberg Post Office (039128) for the period from 1910 to 1990. From 1990 to present, measurements were taken from the present day Bundaberg airport (039128) site. An AWS was installed at the site on 19 December 1997.
Burketown

Site information
Site name: BURKETOWN
Site number: 029077
Latitude: 17.75 °S
Longitude: 139.54 °E
Elevation: 6 m
Locality: Burketown, Qld

Nearest ACORN-SAT sites
- 029063 NORMANTON (163 km)
- 037010 CAMOOWEAL (284 km)
- 030124 GEORGETOWN (427 km)

Details
The recording site is Burketown, 029077 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is small town (population less than 1000). The land type within ten kilometres is open farmland or grassland. Burketown’s site is partly covered by grass and has black soil.

History
This site was previously located at Burketown Post Office (029004) for the period from 1910 to 2009. From 2001 to the present, measurements were taken from the current Burketown airport (029077) site.
Butlers Gorge

Site information
Site name: BUTLERS GORGE
Site number: 096003
Latitude: 42.28 °S
Longitude: 146.28 °E
Elevation: 667 m
Locality: Butlers Gorge, Tas

Nearest ACORN-SAT sites
094029  HOBART (110 km)
091311  LAUNCESTON AIRPORT (112 km)
094010  CAPE BRUNY LIGHTHOUSE (153 km)

Details
The recording site is Butlers Gorge, 096003 (pictured). The type of land within 100 metres of this site is open grassland. Further out, the land within one kilometre of this site is forest. The land within ten kilometres is also forest. The Butlers Gorge site is mostly covered by grass and moss over a black soil.

History
The site located at Butlers Gorge (096003) took measurements for the period from 1944 to 1993, when the station was converted to rainfall only until the Butlers Gorge station was closed in 1999. Butlers Gorge reopened under the same site number on 20 May 2008 when an AWS was installed approximately 120 metres northeast of the former synoptic site. Observations from Lake St Clair (096071) have been in use as a comparison site from 1989 and to provide data to cover the gap between 1993 and 2008 at Butlers Gorge.
Site information
Site name: CABRAMURRA
Site number: 072161
Latitude: 35.94 °S
Longitude: 148.38 °E
Elevation: 1482 m
Locality: Cabramurra, NSW

Nearest ACORN-SAT sites
072150   WAGGA WAGGA (120 km)
069018   MORUYA HEADS (160 km)
082039   RUTHERGLEN (169 km)

Details
The recording site is Cabramurra in NSW, 072161 (pictured). Land use within 100 metres of this site is small town (population 60). The land within one kilometre of this site is also a small town. Further out, the land within ten kilometres is forest. The Cabramurra site is fully covered by grass and has red soil.

History
The original site (072091), located in Cabramurra, operated for the period from 1955 to 2001. In December 1996, an AWS was installed (072161) and has operated since then.
Cairns

Site information
Site name: CAIRNS
Site number: 031011
Latitude: 16.87 °S
Longitude: 145.75 °E
Elevation: 2 m
Locality: Cairns, Qld

Nearest ACORN-SAT sites
028004  PALMERVILLE (203 km)
030124  GEORGETOWN (284 km)
032040  TOWNSVILLE (285 km)

Details
The recording site is Cairns, 031011 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is city area with buildings greater than ten metres in height. The Cairns site is mostly covered with grass and has sand soil.

History
This site was previously located at Cairns Post Office (031010) for the period from 1910 to 1947. From 1942 to the present, measurements were taken from the current Cairns airport (031011) site. An AWS was installed at the site on 8 December 1992.
Camooweal

Site information
Site name: CAMOOWEAL
Site number: 037010
Latitude: 19.92 °S
Longitude: 138.12 °E
Elevation: 231 m
Locality: Camooweal, Qld

Nearest ACORN-SAT sites
029077 BURKETOWN (284 km)
038003 BOULIA (380 km)
029063 NORMANTON (398 km)

Details
The recording site is Camooweal, 037010 (pictured). The land use within 100 metres of this site is small town (population less than 1000). Further out, the land use within one kilometre of this site is also small town (population less than 1000). The land type within ten kilometres is open farmland or grassland. Camooweal’s site is fully covered by grass and has red soil.

History
Measurements have been taken from the Camooweal (037010) site since 1939. An AWS was installed at the site on 11 November 1997.
Canberra

Site information
Site name: CANBERRA
Site number: 070014
Latitude: 35.30°S
Longitude: 149.20°E
Elevation: 578 m
Locality: Canberra, ACT

Nearest ACORN-SAT sites
072161 CABRAMURRA (103 km)
069018 MORUYA HEADS (109 km)
063003 BATHURST (211 km)

Details
The recording site is Canberra 070014 (pictured). Land use within 100 metres of this site is airport. The land within one kilometre of this site is also airport. Further out, within ten kilometres, is the city of Canberra (population 368,129). The Canberra site is partly covered by grass and has red soil.

History
The Canberra airport site (070014) was opened in 1939 and operated to March 2010 as the reporting site. A comparison site (70338) was opened in December 1995 with an AWS. In 1997, the AWS was given the original site number and became the Canberra airport reporting site (07014) and the old site was given the comparison site number (70338). The current airport site (070351) commenced with an AWS in September 2008 and became the operational site in March 2010. For the purposes of the data-set, which ends in 2009, the Canberra airport site, 070014, was used. Any future updates will include the current reporting site 070351.
Cape Borda

Site information
Site name: CAPE BORDA
Site number: 022823
Latitude: 35.75°S
Longitude: 136.60°E
Elevation: 158 m
Locality: Cape Borda, SA

Nearest ACORN-SAT sites
018192 PORT LINCOLN (144 km)
023090 ADELAIDE (206 km)
023373 NURIOOTPA (262 km)

Details
The recording site is Cape Borda, 022823 (pictured). The type of land within 100 metres of this site is forest. Further out, the land within one kilometre of this site is coastal or island. The land within ten kilometres is coastal or island. Cape Borda’s site is on bare ground and has sandy soil.

History
This site was previously located at Cape Borda (022801) for the period from 1962 to 2007. From 2002 to the present, measurements were taken from Cape Borda (022823). A change in instrumentation occurred during the change of sites, when the temperature measurements were changed from manually read thermometers at the older Cape Borda site (022801) to automatic at the newer Cape Borda site (022823).
Cape Bruny Lighthouse

Site information
- Site name: CAPE BRUNY LIGHTHOUSE
- Site number: 094010
- Latitude: 43.49 °S
- Longitude: 147.15 °E
- Elevation: 55 m
- Locality: Bruny Island, Tas

Nearest ACORN-SAT sites
- 094029 HOBART (68 km)
- 096003 BUTLERS GORGE (153 km)
- 091311 LAUNCESTON AIRPORT (216 km)

Details
The recording site is Cape Bruny Lighthouse, 094010 (pictured). The type of land within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is also coastal, as is the land within ten kilometres. The Cape Bruny Lighthouse site is covered by grass over sand.

History
Measurements have been taken from the Cape Bruny Lighthouse (094010) site since 1923.
Cape Leeuwin

Site information
Site name: CAPE LEEUWIN
Site number: 009518
Latitude: 34.37 °S
Longitude: 115.14 °E
Elevation: 13 m
Locality: Augusta, WA

Nearest ACORN-SAT sites
009510 BRIDGETOWN (103 km)
010579 KATANNING (236 km)
009741 ALBANY (252 km)

Details
The recording site is Cape Leeuwin, 009518 (pictured). The type of land within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is also coastal, as well as the land within ten kilometres of the site. Cape Leeuwin’s site is mostly covered by grass and soil type is sand.

History
This site was located at Cape Leeuwin (009518) since 1910. An AWS was installed on 3 February 1993.
Cape Moreton

Site information
Site name: CAPE MORETON
Site number: 040043
Latitude: 27.03 °S
Longitude: 153.47 °E
Elevation: 100 m
Locality: Cape Moreton, Qld

Nearest ACORN-SAT sites
040842 BRISBANE AIRPORT (52 km)
040004 AMBERLEY (100 km)
039066 GAYNDAH (243 km)

Details
The recording site is Cape Moreton, 040043 (pictured). The type of land within 100 metres of this site is coastal or island. Further out, the land within one kilometre of this site is still coastal or island. The land within ten kilometres is coastal or island. Cape Moreton’s site is fully covered by grass and has a sandy soil.

History
From 1910 to the present, measurements have been taken from the current Cape Moreton Lighthouse site (040043). An AWS was installed at the site on 3 August 1995.
Cape Otway Lighthouse

Site information
- Site name: CAPE OTWAY LIGHTHOUSE
- Site number: 090015
- Latitude: 38.86°S
- Longitude: 143.51°E
- Elevation: 82 m
- Locality: Cape Otway, Vic

Nearest ACORN-SAT sites
- 087031 LA VERTON RAAF (155 km)
- 086071 MELBOURNE REGIONAL OFFICE (173 km)
- 085096 WILSONS PROMONTORY LIGHTHOUSE (254 km)

Details
- The recording site is Cape Otway Lighthouse, 090015 (pictured). The type of land within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is also coastal. The land within ten kilometres is open grassland. The Cape Otway Lighthouse site is partly covered by grass over sand.

History
- Measurements have been taken from the Cape Otway Lighthouse (090015) site since 1910. An AWS was installed at this station in 1994.
Carnarvon

Site information
Site name: CARNARVON
Site number: 006011
Latitude: 24.89°S
Longitude: 113.67°E
Elevation: 4 m
Locality: Carnarvon, WA

Nearest ACORN-SAT sites
005007 LEARMONTH (298 km)
008051 GERALDTON (446 km)
007045 MEEKATHARRA (524 km)

Details
The recording site is Carnarvon, 006011 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land use within ten kilometres of the site is town (with population 1000 to 10,000). Carnarvon’s site is partly covered by grass and soil type is sand.

History
This site was previously located at Carnarvon Post Office (006062) for the period from 1910 to 1950. From 1945 to the present, measurements were taken from Carnarvon Airport (006011). An AWS was installed at the site on 22 October 1990.
Ceduna

Site information
- Site name: CEDUNA
- Site number: 018012
- Latitude: 32.13 °S
- Longitude: 133.70 °E
- Elevation: 15 m
- Locality: Ceduna, SA

Nearest ACORN-SAT sites
- 016098 TARCOOLA (179 km)
- 018044 KYANCLUTTA (207 km)
- 016001 WOOMERA (314 km)

Details
The recording site is Ceduna, 018012 (pictured). The land use within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is a town (with a population of 1000 to 10,000), as is the land within ten kilometres. Ceduna’s site is partly covered by grass and has sandy soil.

History
This site was previously located at Ceduna Post Office (018011) for the period from 1939 to 1951. From 1939 to the present, measurements were taken from Ceduna AMO (018012). An AWS was installed at the site on 1 July 1990.
Charleville

Site information
Site name: CHARLEVILLE
Site number: 044021
Latitude: 26.41 °S
Longitude: 146.26 °E
Elevation: 302 m
Locality: Charleville, Qld

Nearest ACORN-SAT sites
043109 ST GEORGE (294 km)
045025 THARGOMINDAH (298 km)
036007 BARCALDINE (333 km)

Details
The recording site is Charleville, 044021 (pictured). The type of land within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is also an airport. The land within ten kilometres is a town (with a population of 1000 to 10,000). Charleville's site is partly covered by grass and has red soil.

History
This site was previously located at Charleville Post Office (044022) for the period from 1910 to 1948. From 1942 to the present, measurements were taken from Charleville Aero (044021). In 2003, Charleville Aero moved to a new site. The old site changed to a new name, Charleville Aero Comparison (044221), and was left open from 2003 until 2006 as a comparison. An AWS was installed at the site on 23 August 1990.
Site information
Site name: CHARTERS TOWERS
Site number: 034084
Latitude: 20.05 °S
Longitude: 146.27 °E
Elevation: 290 m
Locality: Charters Towers, Qld

Nearest ACORN-SAT sites
032040  TOWNSVILLE (103 km)
033119  MACKAY (329 km)
030045  RICHMOND (335 km)

Details
The recording site is Charters Towers, 034084 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is town (population between 1000 and 10,000). Charters Towers’ site is partly covered by grass and has red soil.

History
This site was previously located at Charters Towers Post Office (034002) for the period from 1910 to 1992. From 1992 to the present, measurements were taken from the current Charters Towers airport (034084) site.
Cobar

Site information
Site name: COBAR
Site number: 048027
Latitude: 31.48 °S
Longitude: 145.83 °E
Elevation: 260 m
Locality: Cobar, NSW

Nearest ACORN-SAT sites
048245  BOURKE (162 km)
046043  WILCANNIA (233 km)
052088  WALGETT (272 km)

Details
The recording site is Cobar, 048027 (pictured). The land use within 100 metres of this site is a town (with a population of 1000 to 10,000). Further out, the land within one kilometre of this site is still a town (with a population of 1000 to 10,000). The land within ten kilometres is open farmland and grassland. Cobar’s site is partly covered by grass and has red soil.

History
This site was previously located at Cobar Post Office (048030) for the period from 1910 to 1965. From 1962 to the present, measurements were taken from Cobar Meteorological Office (048027). In 1997, Cobar Meteorological Office moved to a new site. The old site changed to a new name, Cobar Meteorological Office Comparison (048244), and was left open from 1997 until 2000 as a comparison. A change in instrumentation occurred on 1 May 1997 during the move to the new Cobar Meteorological Office (048027) location, when the temperature measurements were changed from manually read thermometers to automatic.
Coffs Harbour

Site information
Site name: COFFS HARBOUR
Site number: 059040
Latitude: 30.31°S
Longitude: 153.12°E
Elevation: 5 m
Locality: Coffs Harbour, NSW

Nearest ACORN-SAT sites
058012 YAMBA (101 km)
060139 PORT MACQUARIE (127 km)
056242 INVERELL (202 km)

Details
The recording site is Coffs Harbour, 059040 (pictured). Land use within 100 metres of this site is airport. Further out, the land within one kilometre of this site is still airport. The land within ten kilometres is a city (with population 26,353). Coffs Harbour’s site is fully covered by grass and has sandy soil.

History
The Coffs Harbour site (059040) has been taking measurements from 1943 to the present. An AWS was installed in January 1995.
Site information
Site name: CUNDERDIN
Site number: 010286
Latitude: 31.62 °S
Longitude: 117.22 °E
Elevation: 217 m
Locality: Cunderdin, WA

Nearest ACORN-SAT sites
010092  MERREDIN (102 km)
009021  PERTH (123 km)
010917  WANDERING (128 km)

Details
The recording site is Cunderdin, 010286 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land use within ten kilometres is grassland. Cunderdin’s site is mostly covered by grass and the type of soil is sand.

History
This site was previously located at Cunderdin (010035) for the period from 1914 to 2007. From 1996 to the present, measurements were taken from Cunderdin Airfield (010286). An AWS was installed at the site on 31 July 1996.
Dalwallinu

Site information
Site name: DALWALLINU
Site number: 008039
Latitude: 30.28 °S
Longitude: 116.66 °E
Elevation: 335 m
Locality: Dalwallinu, WA

Nearest ACORN-SAT sites
008296 MORAWA (134 km)
010286 CUNDERDIN (159 km)
009021 PERTH (195 km)

Details
The recording site is Dalwallinu, 008039 (pictured). The land use within 100 metres of this site is small town (population less than 1000). Further out, the land use within one kilometre of this site is a small town (population less than 1000). The land within ten kilometres is grassland. Dalwallinu’s site is partly covered by grass and has red soil.

History
This site was located at Dalwallinu (008039) since it was opened in 1957.
Darwin

Site information
Site name: DARWIN
Site number: 014015
Latitude: 12.42 °S
Longitude: 130.89 °E
Elevation: 30 m
Locality: Darwin, NT

Nearest ACORN-SAT sites
014825  VICTORIA RIVER DOWNS (443 km)
001019  KALUMBURU (505 km)
002012  HALLS CREEK (733 km)

Details
The recording site is Darwin, 014015 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is city (with buildings more than ten metres high). Darwin’s site is fully covered by grass and has clay soil.

History
This site was previously located at Darwin Post Office (014016) for the period from 1910 to 1942. From 1941 to the present, measurements were taken from Darwin Airport (014015). In 2001 the Darwin Airport site moved to a new location. The old site changed to a new name, Darwin Airport Comparison (014040), and was left open from 2001 to 2007 as a comparison. A change in instrumentation occurred on 1 October 1998, when the temperature measurements were changed from manually read thermometers to automatic.
Deniliquin

Site information
- Site name: DENILIQUIN
- Site number: 074258
- Latitude: 35.56 °S
- Longitude: 144.95 °E
- Elevation: 94 m
- Locality: Deniliquin, NSW

Nearest ACORN-SAT sites
- 080023  KERANG (95 km)
- 082039  RUTHERGLEN (154 km)
- 072150  WAGGA WAGGA (213 km)

Details
The recording site is Deniliquin, 074258 (pictured). Land use within 100 metres of this site is open farmland or grassland. Further out, the land within one kilometre of this site is also open farmland and grassland. The land within ten kilometres is the town of Deniliquin (population 7431). The Deniliquin site is partly covered by grass and has red soil.

History
Measurements were taken from the original site (074128) at Deniliquin for the period from 1910 to 2003. In May 1997, the current site at Deniliquin Airport (074258) opened with an AWS.
**Dubbo**

**Site information**

- Site name: DUBBO
- Site number: 065070
- Latitude: 32.22°S
- Longitude: 148.58°E
- Elevation: 284 m
- Locality: Dubbo, NSW

**Nearest ACORN-SAT sites**

- 063005 BATHURST (163 km)
- 055024 GUNNEDAH (208 km)
- 061363 SCONÉ (213 km)

**Details**

The recording site is Dubbo, 065070 (pictured). Land use within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is also an airport. The land within ten kilometres is the city of Dubbo (population 30,574). The Dubbo site is partly covered by grass and has red soil.

**History**

The original site (065012), located in the city of Dubbo, took measurements for the period from 1921 to 1999. In 1993, the site at Dubbo Airport (065070) opened with an AWS and has operated ever since. This replaced an original station on this site with the same station number which closed in 1992. In December 1992, an AWS was installed at the airport site (065070) with the same station number as the previous site.
Eddystone Point

Site information
Site name: EDDYSTONE POINT
Site number: 092045
Latitude: 40.99° S
Longitude: 148.35° E
Elevation: 20 m
Locality: Eddystone Point, Tas

Nearest ACORN-SAT sites
091311  LAUNCESTON AIRPORT (113 km)
091293  LOW HEAD (131 km)
096003  BUTLERS GORGE (224 km)

Details
The recording site is Eddystone Point, 092045 (pictured). The type of land within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is also coastal, as is the land within ten kilometres. The Eddystone Point site is partially covered by grass over sand.

History
The station located at Eddystone Point (092045) opened in 1908. An AWS was installed at the site on 28 April 1994.
Esperance

Site information
Site name: ESPERANCE
Site number: 009789
Latitude: 33.83 °S
Longitude: 121.89 °E
Elevation: 25 m
Locality: Esperance, WA

Nearest ACORN-SAT sites
010579 KATANNING (141 km)
012038 KALGOORLIE-BOULDER (341 km)
009741 ALBANY (395 km)

Details
The recording site is Esperance, 009789 (pictured). The land use within 100 metres of this site is town (with 1000 to 10,000 population). Further out, the land use within one kilometre of this site is town, as well as within ten kilometres of the site. Esperance’s site is partly covered by grass and the type of soil is sand.

History
This site was previously located at Esperance Post Office (009541) for the period from 1910 to 1969. From 1969 to the present, measurements were taken from Esperance Met Office (009789). An AWS was installed at the site on 24 June 1994.
Eucla

Site information
Site name: EUCLA
Site number: 011003
Latitude: 31.68 °S
Longitude: 128.88 °E
Elevation: 93 m
Locality: Eucla, WA

Nearest ACORN-SAT sites
011052 FORREST (118 km)
018012 CEDUNA (458 km)
009799 ESPERANCE (696 km)

Details
The recording site is Eucla, 011003 (pictured). The type of land within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is also coastal, as well as the land within ten kilometres of the site. Eucla’s site is bare ground and the type of soil is sand.

History
This site was located at Eucla (011003) since it was opened in 1913. An AWS was installed at the site on 25 March 1995.
Forrest

Site information
Site name: FORREST
Site number: 011052
Latitude: 30.85 °S
Longitude: 128.11 °E
Elevation: 159 m
Locality: Forrest, WA

Nearest ACORN-SAT sites
- 011003 EUCLA (118 km)
- 018012 CEDUNA (549 km)
- 012038 KALGOORLIE-BOULDER (636 km)

Details
The recording site is Forrest, 011052 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is airport. The land within ten kilometres of the site is grassland or farmland. Forrest’s site is partly covered by grass and has red soil.

History
This site was previously located at Forrest MO (011004) for the period from 1946 to 1995. From 1993 to the present, measurements were taken from Forrest (011052). An AWS was installed at the site on 15 March 1993.
Gabo Island

Site information
Site name: GABO ISLAND
Site number: 084016
Latitude: 37.57 °S
Longitude: 149.92 °E
Elevation: 15 m
Locality: Gabo Island, Vic

Nearest ACORN-SAT sites
084030   ORBOST (129 km)
069018   MORUYA HEADS (186 km)
072161   CABRAMURRA (228 km)

Details
The recording site is the Gabo Island Lighthouse, 084016 (pictured). Land use within 100 metres of this site is coastal or island. Further out, the land within one kilometre of this site is also coastal or island. The land use within ten kilometres of the site is coastal or island. The Gabo Island site is mostly covered by grass and is on rock.

History
Measurements have been taken from the site at Gabo Island (084016) from 1910 until the present. An AWS was installed at the site in August 2007.
Gayndah

Site information
Site name: GAYNDAH
Site number: 039066
Latitude: 25.62 °S
Longitude: 151.62 °E
Elevation: 111 m
Locality: Gayndah, Qld

Nearest ACORN-SAT sites
039128 BUNDABERG (106 km)
042112 MILES (184 km)
040043 CAPE MORETON (243 km)

Details
The recording site is Gayndah, 039066 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is town (population 1000 to 10,000). Gayndah’s site is mostly covered by grass and has clay soil.

History
This site was previously located at Gayndah Post Office (039039) for the period from 1910 to 2009. From 2003 to the present, measurements were taken from the current Gayndah airport (039066) site. An AWS was installed at the site on 24 January 2003.
Georgetown

Site information
Site name: GEORGETOWN
Site number: 030124
Latitude: 18.30 °S
Longitude: 143.53 °E
Elevation: 302 m
Locality: Georgetown, Qld

Nearest ACORN-SAT sites
028004 PALMERVILLE (263 km)
029063 NORMANTON (269 km)
030045 RICHMOND (273 km)

Details
The recording site is Georgetown, 030124 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is small town (population less than 1000). Georgetown’s site is bare ground and has red soil.

History
This site was previously located at Georgetown Post Office (030018) for the period from 1910 to 2007. From 2004 to the present, measurements were taken from the current Georgetown airport (030124) site. An AWS was installed at the site on 31 May 2004.
Geraldton

Site information
Site name: GERALDTON
Site number: 008051
Latitude: 28.80 °S
Longitude: 114.70 °E
Elevation: 33 m
Locality: Geraldton, WA

Nearest ACORN-SAT sites
008296  MORAWA (137 km)
008039  DALWALLINU (252 km)
009021  PERTH (370 km)

Details
The recording site is Geraldton, 008051 (pictured). The type of land within 100 metres of this site is grassland. Further out, the land use within one kilometre of this site is airport. The land within ten kilometres is grassland. Geraldton’s site is partly covered by grass and has red soil.

History
This site was previously located at Geraldton Town (008050) for the period from 1877 to 1946. From 1941 to the present, measurements were taken from Geraldton Airport (008051). An AWS was installed at the site on 24 June 1990.
Giles

Site information
Site name: GILES
Site number: 013017
Latitude: 25.03 °S
Longitude: 128.30 °E
Elevation: 598 m
Locality: Giles, SA

Nearest ACORN-SAT sites
015666 RABBIT FLAT (568 km)
015590 ALICE SPRINGS (583 km)
011052 FORREST (647 km)

Details
The recording site is Giles, 013017 (pictured). The type of land within 100
metres of this site is grassland or farmland. Further out, the land within
one kilometre of this site is also grassland or farmland, as well as the land
within ten kilometres of the site. The Giles site is bare ground and the type
of soil is clay.

History
This site was located at Giles (013017) since it was opened in 1956. An AWS
was installed at the site on 1 June 1992.
Grove

Site information
Site name: GROVE
Site number: 094069
Latitude: 42.98 °S
Longitude: 147.08 °E
Elevation: 63 m
Locality: Grove, Tas

Nearest ACORN-SAT sites
094029   HOBART (23 km)
094010   CAPE BRUNY LIGHTHOUSE (57 km)
096003   BUTLERS GORGE (103 km)

Details
The recording site is Grove, 094069 (pictured). The type of land within 100 metres of this site is open grassland or farmland. Further out, the land within one kilometre of this site is also open grassland or farmland. The land within ten kilometres is the township of Grove (population 719). The Grove site is covered by grass over a black soil.

History
The station located at Grove operating under station number 094069 reported from 1952 to 2010, after which it was amalgamated with the AWS at Grove (Research Station) (094220), at the completion of the comparison period. The site at Grove operating under station number 094220 was opened in 2002, and will be used in any updates to the data-set, which currently runs to December 2009.
Gunnedah

Site information

Site name: GUNNEDAH
Site number: 055024
Latitude: 31.03 °S
Longitude: 150.27 °E
Elevation: 307 m
Locality: Gunnedah, NSW

Nearest ACORN-SAT sites

061363  SCONÉ (124 km)
056242  INVERELL (161 km)
053115  MOREE (176 km)

Details

The recording site is Gunnedah, 055024 (pictured). The type of land within 100 metres of this site is open farmland or grassland. Further out, the land within one kilometre of this site is open farmland or grassland. The land within ten kilometres is a town (population of 1000 to 10,000). Gunnedah’s site is fully covered by grass and has red soil.

History

From 1948 to the present, measurements have been taken from the current Gunnedah Resource Centre site (055024).
Halls Creek

Site information
Site name: HALLS CREEK
Site number: 002012
Latitude: 18.23 °S
Longitude: 127.66 °E
Elevation: 422 m
Locality: Halls Creek, WA

Nearest ACORN-SAT sites
015666   RABBIT FLAT (329 km)
001019   KALUMBURU (451 km)
003003   BROOME (575 km)

Details
The recording site is Halls Creek, 002012 (pictured). The type of land within 100 metres of this site is town. Further out, the land within one kilometre of this site is a town (population 1000 to 10,000). The land within ten kilometres is farmland or grassland. Halls Creek’s site is bare ground and has red soil.

History
This site was previously located at Halls Creek (002011) for the period from 1910 to 1952. The Halls Creek site (002012) was opened in 1949. In 1996, the site was moved to its current location, while the old site continued to operate under a different site number (002071) from 1996 to 2001 as a comparison. An AWS was installed at the site on 25 August 1996.
Hobart

Site information
Site name: HOBART
Site number: 094029
Latitude: 42.89 °S
Longitude: 147.33 °E
Elevation: 51 m
Locality: Hobart, Tas

Nearest ACORN-SAT sites
094010 CAPE BRUNY LIGHTHOUSE (68 km)
096003 BUTLERS GORGE (110 km)
091311 LAUNCESTON AIRPORT (150 km)

Details
The recording site is Hobart, 094029 (pictured). The type of land within 100 metres of this site is the city of Hobart (population 128,577), with buildings less than ten metres high. Further out, the land within one kilometre of this site is also city, but with buildings greater than ten metres high, as is the land within ten kilometres. The Hobart site is covered by grass over a black soil.

History
Measurements began at the Hobart (Ellerslie Road) site (094092) in 1918. An AWS was installed at the site on 25 May 1992, although manual observations continued at the site until 19 December 1994 when the regional office moved from the Ellerslie Road office to the Reserve Bank building in Macquarie Street.
Horn Island

Site information
Site name: HORN ISLAND
Site number: 027058
Latitude: 10.58 °S
Longitude: 142.29 °E
Elevation: 4 m
Locality: Horn Island, Qld

Nearest ACORN-SAT sites
027045 WEIPA (236 km)
028004 PALMERVILLE (633 km)
031011 CAIRNS (794 km)

Details
The recording site is Horn Island, 027058 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land type within ten kilometres is coastal and island. Horn Island’s site is partly covered by grass and has sand soil.

History
This site was previously located at Thursday Island Meteorological Office (027022) for the period from 1952 to 1993 and then it was moved to a different location on Thursday Island (027021) for the period 1992 to 1996. From 1995 to the present, measurements were taken from the Horn Island (027058) site. An AWS was installed at the site on 10 January 1995.
Inverell

Site information
Site name: INVERELL
Site number: 056242
Latitude: 29.78 °S
Longitude: 151.11 °E
Elevation: 582 m
Locality: Inverell, NSW

Nearest ACORN-SAT sites
053115 MOREE (127 km)
055024 GUNNEDAH (161 km)
059040 COFFS HARBOUR (202 km)

Details
The recording site is Inverell, 056242 (pictured). The land use within 100 metres of this site is a town (population of 1000 to 10,000). Further out, the land use within one kilometre of this site is still a town (population of 1000 to 10,000). The land within ten kilometres is open farmland or grassland. Inverell’s site is mostly covered by grass and has black soil.

History
This site was previously located at Inverell Post Office (056017) for the period from 1910 to 1997. From 1995 to the present, measurements were taken from Inverell (Raglan St) (056242).
Kalgoorlie-Boulder

Site information
Site name: KALGOORLIE-BOULDER
Site number: 012038
Latitude: 30.78 °S
Longitude: 121.45 °E
Elevation: 365 m
Locality: Kalgoorlie, WA

Nearest ACORN-SAT sites
011092 MERREDIN (312 km)
009789 ESPERANCE (341 km)
010286 CUNDERDIN (413 km)

Details
The recording site is Kalgoorlie-Boulder, 012038 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is airport. The land within ten kilometres of the site is city (with buildings less than ten metres high). Kalgoorlie-Boulder’s site is partly covered by grass and has red soil.

History
This site was previously located at Kalgoorlie Post Office (01039) for the period from 1910 to 1953. From 1944 to the present, measurements were taken from Kalgoorlie-Boulder Airport (012038). An AWS was installed at the site on 12 August 1992.
Kalumburu

Site information
Site name: KALUMBURU
Site number: 001019
Latitude: 14.30 °S
Longitude: 126.65 °E
Elevation: 23 m
Locality: Kalumburu, WA

Nearest ACORN-SAT sites
- 002012  HALLS CREEK (451 km)
- 014015  DARWIN (505 km)
- 003003  BROOM AIRPORT (623 km)

Details
The recording site is Kalumburu, 001019 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is a small town (less than 1000 population). The land within ten kilometres is coastal. Kalumburu’s site is partly covered by grass and has red soil.

History
This site was previously located at Kalumburu Mission (001021) for the period from 1941 to 2005. From 1998 to the present, measurements were taken from Kalumburu (001019). A change in instrumentation occurred on 16 September 1998, when the temperature measurements were changed from manually read thermometers to automatic.
**Katanning**

**Site information**
- **Site name:** KATANNING
- **Site number:** 010579
- **Latitude:** 33.69 °S
- **Longitude:** 117.56 °E
- **Elevation:** 310 m
- **Locality:** Katanning, WA

**Nearest ACORN-SAT sites**
- 009510 BRIDGETOWN (135 km)
- 010917 WANDERING (140 km)
- 009741 ALBANY (141 km)

**Details**
The recording site is Katanning, 010579 (pictured). The land use within 100 metres of this site is town (population 1000 to 10,000). Further out, the land use within one kilometre of this site is also town. The land use within ten kilometres is grassland or farmland. Katanning’s site is mostly covered by grass and type of soil is clay.

**History**
Measurements have been taken at Katanning (010579) since 1910.
Kerang

Site information
Site name: KERANG
Site number: 080023
Latitude: 35.72 °S
Longitude: 143.92 °E
Elevation: 78 m
Locality: Kerang, Vic

Nearest ACORN-SAT sites
074258  DENILIQUIN (95 km)
078015  NHILL (215 km)
076031  MILDURA (235 km)

Details
The recording site is Kerang, 080023 (pictured). Land use within 100 metres of this site is the town of Kerang (population 3780). Further out, the land within one kilometre of this site is also a town. Within ten kilometres of the site is open farmland and grassland. The Kerang site is partly covered by grass and has red soil.

History
Measurements have been taken from the site at Kerang (080023) since 1910.
Kyancutta

Site information
Site name: KYANCUTTA
Site number: 018044
Latitude: 33.13 °S
Longitude: 135.56 °E
Elevation: 57 m
Locality: Kyancutta, SA

Nearest ACORN-SAT sites
018192 PORT LINCOLN (166 km)
018012 CEDUNA (207 km)
016001 WOOMERA (250 km)

Details
The recording site is Kyancutta, 018044 (pictured). The type of land within 100 metres of this site is a small town (population less than 1000). Further out, the land within one kilometre of this site is still a small town (population less than 1000). The land within ten kilometres is open farmland or grassland. Kyancutta’s site is mostly covered by grass and has sandy soil.

History
From 1930 to the present, measurements have been taken from the current Kyancutta site (018044).
Launceston Airport

Site information
Site name: LAUNCESTON AIRPORT
Site number: 091311
Latitude: 41.55°S
Longitude: 147.21°E
Elevation: 167 m
Locality: Launceston Airport, Tas

Nearest ACORN-SAT sites
091293 LOW HEAD (66 km)
096003 BUTLERS GORGE (112 km)
092045 EDDYSTONE POINT (113 km)

Details
The recording site is Launceston Airport, 091311 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres includes the city of Launceston (population 71,395). The Launceston Airport site is covered by grass over clay soil.

History
The current station located at Launceston Airport (091311) opened in 2004, with an AWS at this station becoming operational on 12 July 2004. The original station at this site, Launceston Airport Comparison (091104), operated between July 1931 and July 2004. An AWS was installed at site 091104 in May 1992. Observations from site 091104 have been used for the period between 1939 and 2009. Launceston Pumping Station (091049) operated between 1883 and 1963. Observations from site 091049 have been used for the period between 1910 and 1946.
Laverton RAAF

Site information
Site name: LAVERTON RAAF
Site number: 087031
Latitude: 37.86 °S
Longitude: 144.76 °E
Elevation: 20 m
Locality: Laverton, Vic

Nearest ACORN-SAT sites
086071 MELBOURNE REGIONAL OFFICE (20 km)
090015 CAPE OTWAY LIGHTHOUSE (155 km)
085096 WILSONS PROMONTORY LIGHTHOUSE (203 km)

Details
The recording site is Laverton RAAF, 087031 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres is city, with buildings greater than ten metres high. Laverton is on the outskirts of Melbourne (population 3,371,888). The Laverton RAAF site is covered by grass over black soil.

History
The station located at Laverton RAAF (087031) opened in 1941. An AWS was installed at this station in 1997.
Learmonth

Site information
Site name: LEARMONTH
Site number: 005007
Latitude: 22.24 °S
Longitude: 114.10 °E
Elevation: 5 m
Locality: Learmonth, WA

Nearest ACORN-SAT sites
006011  CARNARVON (298 km)
005026  WITTENOOM (436 km)
004032  PORT HEDLAND (514 km)

Details
The recording site is Learmonth, 005007 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres is grassland. Learmonth’s site is mostly covered by grass and soil type is sand.

History
This site was located at Learmonth (005007) since it opened in 1975. An AWS was installed at this site on 29 August 1994.
Longreach

Site information
Site name: LONGREACH
Site number: 036031
Latitude: 23.44°S
Longitude: 144.28°E
Elevation: 192 m
Locality: Longreach, Qld

Nearest ACORN-SAT sites
036007  BARCALDINE (104 km)
030045  RICHMOND (323 km)
044021  CHARLEVILLE (387 km)

Details
The recording site is Longreach, 036031 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is town (population between 1000 and 10,000). Longreach’s site is partly covered by grass and has black soil.

History
This site was previously located at Longreach Post Office (036030) for the period from 1910 to 1969. The Longreach Meteorological Office site (036031) was opened in 1966. In 1996, the site was moved to its current location at the Meteorological Office, while the old site continued to operate under a different site number (036167) between 1996 and 1997 as a comparison. An AWS was installed at the site on 31 May 1996.
Low Head

Site information
Site name: LOW HEAD
Site number: 091293
Latitude: 41.05 °S
Longitude: 146.79 °E
Elevation: 3 m
Locality: Low Head, Tas

Nearest ACORN-SAT sites
091311 LAUNCESTON AIRPORT (66 km)
092045 EDDYSTONE POINT (131 km)
096003 BUTLERS GORGE (142 km)

Details
The recording site is Low Head, 091293 (pictured). The type of land within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is also coastal, as is the land within ten kilometres. The Low Head site is mostly covered by grass over sand.

History
The current station located at Low Head (091293) opened in 1997, with an AWS at this station becoming operational on 6 November 1997. The original station at this site, Low Head (Comparison) (091057), was opened in 1877 and closed in 2001. Observations from site 091057 have been used for the period between 1910 to 2001.
Site information
Site name: MACKAY
Site number: 033119
Latitude: 21.12 °S
Longitude: 149.22 °E
Elevation: 30 m
Locality: Mackay, Qld

Nearest ACORN-SAT sites
039083     ROCKHAMPTON (283 km)
034084     CHARTERS TOWERS (329 km)
032040     TOWNSVILLE (330 km)

Details
The recording site is Mackay, 033119 (pictured). The land type within 100 metres of this site is forest. Further out, the land use within one kilometre of this site is city area with buildings greater than ten metres in height. The land use within ten kilometres is city area with buildings less than ten metres in height. Mackay's site is fully covered with grass and has black soil.

History
This site was previously located at Mackay Post Office (033046) for the period from 1910 to 1950. A site at Te Kowai (033047) was used to fill gaps between 1947 and 1965. The Mackay Meteorological Office site (033119) was opened in 1959. In 1995, the site was moved to its current location at the Meteorological Office, while the old site continued to operate under a different site number (033297) between 1995 and 2001 as a comparison. An AWS was installed at the site on 18 October 1995.
Marble Bar

Site information
Site name: MARBLE BAR
Site number: 004106
Latitude: 21.18 °S
Longitude: 119.75 °E
Elevation: 182 m
Locality: Marble Bar, WA

Nearest ACORN-SAT sites
004032 PORT HEDLAND (147 km)
003003 BROOME (444 km)
005007 LEARMONTH (597 km)

Details
The recording site is Marble Bar, 004106 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is also grassland or farmland as well as the land within ten kilometres of the site. Marble Bar’s site is partly covered by grass and has red soil.

History
This site was previously located at Marble Bar (004020) for the period from 1910 to 2003. From 2000 to the present, measurements were taken from Marble Bar (004106). A change in instrumentation occurred on 25 September 2000, when the temperature measurements were changed from manually read thermometers to automatic.
Marree

Site information
Site name: MARREE
Site number: 017031
Latitude: 29.65 °S
Longitude: 138.06 °E
Elevation: 50 m
Locality: Marree, SA

Nearest ACORN-SAT sites
016001 WOOMERA (207 km)
017043 OODNADATTA (346 km)
016098 TARCOOLA (355 km)

Details
The recording site is Marree, 017031 (pictured). The land use within 100 metres of this site is a small town (population less than 1000). Further out, the land use within one kilometre of this site is also a small town. The land within ten kilometres is non-vegetated (desert). Marree’s site is bare ground and the type of soil is clay.

History
This site was previously located at Farina (017024) for the period from 1910 to 1939. From 1939 to the present, measurements were taken from Marree (017031).
Meekatharra

Site information
Site name: MEEKATHARRA
Site number: 007045
Latitude: 26.61 °S
Longitude: 118.54 °E
Elevation: 517 m
Locality: Meekatharra, WA

Nearest ACORN-SAT sites
008296 MORAWA (380 km)
008039 DALWALLINU (447 km)
008051 GERALDTON (449 km)

Details
The recording site is Meekatharra, 007045 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is grassland or farmland. The land within ten kilometres is also grassland or farmland. Meekatharra’s site is bare ground and has red soil.

History
This site was previously located at Meekatharra Post Office (007046) for the period from 1908 to 1950. The Meekatharra Airport site (007045) was opened in 1950. In 1998, the site was moved to its current location, while the old site continued to operate under a different site number (007204) from 1998 and 2001 as a comparison. An AWS was installed at the site on 7 February 1991.
Melbourne Regional Office

Site information
Site name: MELBOURNE REGIONAL OFFICE
Site number: 086071
Latitude: 37.81 °S
Longitude: 144.97 °E
Elevation: 31 m
Locality: Melbourne, Vic

Nearest ACORN-SAT sites
087031 LAVERTON RAAF (20 km)
090015 CAPE OTWAY LIGHTHOUSE (173 km)
085072 EAST SALE AIRPORT (193 km)

Details
The recording site is Melbourne Regional Office, 086071 (pictured). The type of land within 100 metres of this site is the city of Melbourne (population 3,371,888), with buildings more than ten metres high. Further out, the land within one kilometre of this site is also city, with buildings greater than ten metres high, as is the land within ten kilometres. The Melbourne Regional Office site is mostly covered by grass over a black soil.

History
The station located at Melbourne Regional Office (086071) opened in 1908. An AWS was installed at this station in 1986.
Merredin

Site information
Site name: MERREDIN
Site number: 010092
Latitude: 31.48 °S
Longitude: 118.28 °E
Elevation: 315 m
Locality: Merredin, WA

Nearest ACORN-SAT sites
010286 CUNDERDIN (102 km)
010917 WANDERING (202 km)
009021 PERTH (623 km)

Details
The recording site is Merredin, 010092 (pictured). The land use within 100 metres of this site is town (population 1000 to 10,000). Further out, the land use within one kilometre of this site is also town. The land within ten kilometres is grassland or farmland. Meredin’s site is partly covered by grass and has red soil.

History
This site was previously located at Merredin Research Station (010093) for the period from 1912 to 1966. From 1966 to the present, measurements were taken from Merredin (010092).
Mildura

Site information
- Site name: MILDURA
- Site number: 076031
- Latitude: 34.24 °S
- Longitude: 142.09 °E
- Elevation: 50 m
- Locality: Mildura, Vic

Nearest ACORN-SAT sites
- 078015  NHILL (234km)
- 080023  KERANG (235 km)
- 082039  NURIOOTPA (284 km)

Details
The recording site is Mildura, 076031 (pictured). Land use within 100 metres of this site is open grassland or farmland. Further out, the land within one kilometre of this site is also open farmland and grassland. The land within ten kilometres is the city of Mildura (population 30,016). The Mildura site is mostly covered by grass and has red soil.

History
Measurements were taken from the original site (076077), operated at the Mildura Post Office, for the period from 1910 to 1949. In 1946, the site at the Mildura Airport (076031) opened. An AWS was installed at the site on 1 October 1989.
Site information
Site name: MILES
Site number: 042112
Latitude: 26.66 °S
Longitude: 150.18 °E
Elevation: 305 m
Locality: Miles, Qld

Nearest ACORN-SAT sites
039066  GAYNDAH (184 km)
043109  ST GEORGE (221 km)
040004  AMBERLEY (273 km)

Details
The recording site is Miles, 042112 (pictured). The land use within 100 metres of this site is a town (population of 1000 to 10,000). Further out, the land within one kilometre of this site is also a town (population of 1000 to 10,000), as is the land within ten kilometres. Miles’ site is mostly covered by grass and has red soil.

History
This site was previously located at Miles Post Office (042023) for the period from 1910 to 2005. From 1997 to the present, measurements were taken from Miles Constance Street (042112). A change in instrumentation occurred during the change of sites, when the temperature measurements were altered from manually read thermometers at Miles Post Office (042023) to automatic at Miles Constance Street (042112).
Site information
Site name: MORAWA
Site number: 008296
Latitude: 29.20 °S
Longitude: 116.02 °E
Elevation: 271 m
Locality: Morawa, WA

Nearest ACORN-SAT sites
008039  DALWALLINU (134 km)
008051  GERALDTON (137 km)
010286  CUNDERDIN (293 km)

Details
The recording site is Morawa, 008296 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is airport. The land use within ten kilometres is small town (population less than 1000). Morawa’s site is mostly covered by grass and type of soil is sand.

History
This site was previously located at Morawa Post Office (008093) for the period from 1911 to 2005. From 1997 to the present, measurements were taken from Morawa Airport (008296). A change in instrumentation occurred on 25 February 1997, when the temperature measurements were changed from manually read thermometers to automatic.
Moree

Site information
Site name: MOREE
Site number: 053115
Latitude: 29.49 °S
Longitude: 149.85 °E
Elevation: 213 m
Locality: Moree, NSW

Nearest ACORN-SAT sites
056242 INVERELL (127 km)
055024 GUNNEDAH (176 km)
052088 WALGETT (177 km)

Details
The recording site is Moree, 053115 (pictured). The land use within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is a town (population of 1000 to 10,000). The land within ten kilometres is open farmland or grassland. Moree’s site is mostly covered by grass and has black soil.

History
This site was previously located at Moree Post Office (053027) for the period from 1910 to 1965. From 1964 to 1998, measurements were taken at Moree Meteorological Office (053048). From 1995 to the present, measurements were taken from the current site, Moree Meteorological Office (053115). An AWS was installed at the site on 10 April 1995.
Moruya Heads

Site information
Site name: MORUYA HEADS
Site number: 069018
Latitude: 35.91 °S
Longitude: 150.15 °E
Elevation: 17 m
Locality: Moruya Heads, NSW

Nearest ACORN-SAT sites
068151 POINT PERPENDICULAR (108 km)
068072 NOWRA (113 km)
072161 CABRAMURRA (160 km)

Details
The recording site is Moruya Heads, 069018 (pictured). Land use within 100 metres of this site is coastal. The land within one kilometre of this site is also coastal. Further out, within ten kilometres, is a small town (population 800). The Moruya Heads site is fully covered by grass and has clay soil.

History
Measurements have been taken from the Moruya Heads site (068034) since 1910.
# Mount Gambier

## Site information
- **Site name:** MOUNT GAMBIER
- **Site number:** 026021
- **Latitude:** 37.75°S
- **Longitude:** 140.77°E
- **Elevation:** 63 m
- **Locality:** Mount Gambier, SA

## Nearest ACORN-SAT sites
- 026026 ROBE (111 km)
- 078015 NHILL (178 km)
- 090015 CAPE OTWAY (269 km)

## Details
The recording site is Mount Gambier, 026021 (pictured). The type of land within 100 metres of this site is open farmland or grassland. Further out, the land use within one kilometre of this site is airport. The land use within ten kilometres is open farmland or grassland. Mount Gambier’s site is fully covered by grass and has sand soil.

## History
This site was previously located at Mount Gambier Post Office (026020) for the period from 1910 to 1947. From 1942 to the present, measurements were taken from the current Mount Gambier (026021) site. An AWS was installed at the site on 5 July 1993.
Nhill

Site information
Site name: NHILL
Site number: 078015
Latitude: 36.31 °S
Longitude: 141.65 °E
Elevation: 139 m
Locality: Nhill, Vic

Nearest ACORN-SAT sites
026021  MOUNT GAMBIER (178 km)
026026  ROBE (194 km)
080023  KERANG (215 km)

Details
The recording site is Nhill, 078015 (pictured). Land use within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is also an airport. Within ten kilometres of the site is the town of Nhill (population 1915). The Nhill site is partly covered by grass and has clay soil.

History
Measurements were taken from the original site at Nhill (078031) for the period from 1910 to 2008. In 2003, an AWS was installed at the Nhill Airport (076031) site.
Normanton

Site information
Site name: NORMANTON
Site number: 029063
Latitude: 17.69°S
Longitude: 141.07°E
Elevation: 18 m
Locality: Normanton, Qld

Nearest ACORN-SAT sites
- 029077 BURKETOWN (163 km)
- 030124 GEORGETOWN (269 km)
- 028004 PALMERVILLE (371 km)

Details
The recording site is Normanton, 029063 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is small town (population less than 1000). Normanton's site is partly covered by grass and has red soil.

History
This site was previously located at Normanton Post Office (029041) for the period from 1910 to 2001. From 2001 to the present, measurements were taken from the current Normanton airport (029063) site. An AWS was installed at the site on 10 April 2001.
Nowra

Site information
Site name: NOWRA
Site number: 068072
Latitude: 34.95 °S
Longitude: 150.54 °E
Elevation: 109 m
Locality: Nowra, NSW

Nearest ACORN-SAT sites
068151  POINT PERPENDICULAR (30 km)
069018  MORUYA HEADS (113 km)
066062  SYDNEY (136 km)

Details
The recording site is Nowra, 068072 (pictured). Land use within 100 metres of this site is an airport. The land within one kilometre of this site is also an airport. Further out, the land within ten kilometres is a city (population 27,478). The Nowra site is mostly covered by grass and has red soil.

History
Measurements were taken from the original Nowra site (068076) for the period 1955 to 2000. An AWS was installed at the present site (068072) in 2000 and has been operating ever since.
Nuriootpa

Site information
Site name: NURIOOTPA
Site number: 023373
Latitude: 34.48 °S
Longitude: 139.01 °E
Elevation: 275 m
Locality: Nuriootpa, SA

Nearest ACORN-SAT sites
023090 ADELAIDE (61 km)
021133 SNOWTOWN (107 km)
022823 CAPE BORDA (262 km)

Details
The recording site is Nuriootpa, 023373 (pictured). The type of land within 100 metres of this site is open farmland or grassland. Further out, the land within one kilometre of this site is also open farmland or grassland. The land use within ten kilometres is a town (population 1000 to 10,000). Nuriootpa’s site is mostly covered by grass and has clay soil.

History
This site was previously located at Nuriootpa (023321) for the period from 1957 to 1999. From 1996 to the present, measurements were taken from the current Nuriootpa (023373) site. An AWS was installed at the site on 28 August 1996.
Oodnadatta

Site information
Site name: OODNADATTA
Site number: 017043
Latitude: 27.56 °S
Longitude: 135.45 °E
Elevation: 117 m
Locality: Oodnadatta, SA

Nearest ACORN-SAT sites
017031 MARREE (346 km)
016098 TARCOOLA (360 km)
016001 WOOMERA (422 km)

Details
The recording site is Oodnadatta, 017043 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres is a small town (less than 1000 population). Oodnadatta’s site is partly covered by grass and has red soil.

History
This site was previously located at Oodnadatta Airport (017031) in the period from 1940 to 1985. From 1985 to 1991, it was located at Oodnadatta Police (017114). From 1994 to the present, this site was again located at Oodnadatta Airport (017031). An AWS was installed at the site on 3 November 1994.
Orbost

Site information
Site name: ORBOST
Site number: 084030
Latitude: 37.69 °S
Longitude: 148.46 °E
Elevation: 41 m
Locality: Orbost, Vic

Nearest ACORN-SAT sites

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<th>Site Name</th>
<th>Distance</th>
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<td>SALE (126 km)</td>
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<tr>
<td>084016</td>
<td>GABO ISLAND (129 km)</td>
<td></td>
</tr>
<tr>
<td>072161</td>
<td>CABRAMURRA (195 km)</td>
<td></td>
</tr>
</tbody>
</table>

Details
The recording site is Orbost, 084030 (pictured). Land use within 100 metres of this site is the town of Orbost (population 2097). Further out, the land within one kilometre of this site is also town. The land use within ten kilometres of the site is open farmland or grassland. The Orbost site is fully covered by grass and is on red soil.

History
Measurements have been taken from the site at Orbost (084030) since 1938.
Site information
Site name: PALMERVILLE
Site number: 028004
Latitude: 16.00 °S
Longitude: 144.08 °E
Elevation: 204 m
Locality: Palmerville, Qld

Nearest ACORN-SAT sites
031011 CAIRNS (203 km)
030124 GEORGETOWN (263 km)
029063 NORMANTON (371 km)

Details
The recording site is Palmerville, 028004 (pictured). The land type within 100 metres of this site is open farmland or grassland. Further out, the land type within one kilometre of this site is also open farmland or grassland. The land type within ten kilometres is open farmland or grassland. Palmerville’s site is partly covered by grass and has clay soil.

History
Measurements have been taken from the Palmerville (028004) site since 1910. An AWS was installed at the site on 12 July 2001.
Perth

Site information
- Site name: PERTH
- Site number: 009021
- Latitude: 31.93°S
- Longitude: 115.98°E
- Elevation: 15 m
- Locality: Perth, WA

Nearest ACORN-SAT sites
- 010917 WANDERING (106 km)
- 010286 CUNDERDIN (123 km)
- 008039 DALWALLINU (195 km)

Details
The recording site is Perth, 009021 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is city (with buildings less than ten metres high). Perth’s site is partly covered by grass and the type of soil is sand.

History
This site was previously located at Perth Regional Office (009034) for the period from 1910 to 1962. From 1944 to the present, measurements were taken from Perth Airport (009021). In the period from 1997 to 2001, measurements were also taken from Perth Airport Comparison (009250). The Perth Airport site (009021) was opened in 1944. In 1997, the site was moved to it’s current location, which the old site continued to operate under a different site number (009250) from 1997 to 2001 as a comparison. An AWS was installed at the site on 20 June 1994.
Point Perpendicular

Site information
Site name: POINT PERPENDICULAR
Site number: 068151
Latitude: 35.09 °S
Longitude: 150.80 °E
Elevation: 85 m
Locality: Jervis Bay, NSW

Nearest ACORN-SAT sites
068072 NOWRA (30 km)
069018 MORUYA (108 km)
066062 SYDNEY (142 km)

Details
The recording site is Point Perpendicular, 068151 (pictured). Land use within 100 metres of this site is coastal. The land within one kilometre of this site is also coastal. Further out, within ten kilometres, is a small town (population 513). The Point Perpendicular site is mostly covered by grass and is on rock.

History
Measurements were taken from the original Point Perpendicular site (068034) for the period 1946 to 2004. An AWS was installed at the site in May 2001 (site number 068151) and has been operating ever since.
Port Hedland Airport

Site information
Site name: PORT HEDLAND AIRPORT
Site number: 004032
Latitude: 20.37°S
Longitude: 118.63°E
Elevation: 6 m
Locality: Port Hedland, WA

Nearest ACORN-SAT sites
004106  MARBLE BAR (147 km)
004032  BROOME (465 km)
005007  LEARMOUTH (514 km)

Details
The recording site is Port Hedland Airport, 004032 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is airport. The land within ten kilometres is also airport. Port Headland’s site is partly covered by grass and has red soil.

History
This site was previously located at Port Hedland Post Office (004002) for the period from 1912 to 1948. The Port Hedland Airport site (004032) opened in 1948. In 1998, the site was moved to its current location, while the old site continued to operate under a different site number (004104) from 1998 to 2001 as a comparison. An AWS was installed at the site on 24 November 1994.
Port Lincoln

Site information
Site name: PORT LINCOLN
Site number: 018192
Latitude: 34.60 °S
Longitude: 135.88 °E
Elevation: 9 m
Locality: North Shields, SA

Nearest ACORN-SAT sites
022823 CAPE BORDA (144 km)
018044 KYANUTTA (166 km)
021133 SNOWTOWN (235 km)

Details
The recording site is Port Lincoln, 018192 (pictured). The land use within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is still an airport. The land within ten kilometres is coastal. Port Lincoln’s site is fully covered by grass and has black soil.

History
This site was previously located at Port Lincoln Post Office (018070) for the period from 1910 to 2002. From 1992 to the present, measurements were taken from Port Lincoln AWS (018192). A change in instrumentation occurred during the change of sites, when the temperature measurements were altered from manually read thermometers at Port Lincoln Post Office (018070) to automatic at Port Lincoln AWS (018192).
Port Macquarie

Site information
Site name: PORT MACQUARIE
Site number: 060139
Latitude: 31.43 °S
Longitude: 152.87 °E
Elevation: 4 m
Locality: Port Macquarie, NSW

Nearest ACORN-SAT sites
- 059040 COFFS HARBOUR (127 km)
- 061078 WILLIAMTOWN (181 km)
- 061363 SCONETOWN (208 km)

Details
The recording site is Port Macquarie, 060139 (pictured). Land use within 100 metres of this site is airport. Further out, the land within one kilometre of this site is still airport. The land within ten kilometres is a city (with population 39,219). The Port Macquarie site is mostly covered by grass and has sandy soil.

History
Measurements were taken from the original site in Port Macquarie in Hill Street (060139) for the period 1910 to 2003. An AWS was installed at the Port Macquarie Airport (060139) in May 1995.
Rabbit Flat

Site information
Site name: RABBIT FLAT
Site number: 015666
Latitude: 20.18 °S
Longitude: 130.01 °E
Elevation: 340 m
Locality: Tanami, NT

Nearest ACORN-SAT sites
002012   HALLS CREEK (329 km)
014825   VICTORIA RIVER DOWNS (433 km)
015135   TENNANT CREEK (440 km)

Details
The recording site is Rabbit Flat, 015666 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is also grassland or farmland, as well as the land within ten kilometres of the site. Rabbit Flat’s site is mostly covered by grass and the type of soil is sand.

History
This site was previously located at Rabbit Flat (015548) for the period from 1969 to 1998. From 1996 to the present, measurements were taken from the current Rabbit Flat (015666) site. A change in instrumentation occurred on 27 May 1997, when the temperature measurements were changed from manually read thermometers to automatic.
Richmond (NSW)

Site information
Site name: RICHMOND
Site number: 067105
Latitude: 33.60 °S
Longitude: 150.78 °E
Elevation: 19 m
Locality: Richmond, NSW

Nearest ACORN-SAT sites
066062 SYDNEY (49 km)
063005 BATHURST (115 km)
068072 WILLIAMTOWN (134 km)

Details
The recording site is Richmond in NSW, 067105 (pictured). Land use within 100 metres of this site is an airport. The land within one kilometre of this site is also airport. Further out, the land within ten kilometres is a town. Richmond is on the outskirts of the major city of Sydney (population 3,641,422). The Richmond site is fully covered by grass and has clay soil.

History
Measurements were taken from the original Richmond site (067033) for the period 1939 to 1994. The present site (067105) has been open since October 1993, with an AWS.
Richmond (Qld)

Site information
Site name: RICHMOND
Site number: 030045
Latitude: 20.73 °S
Longitude: 143.14 °E
Elevation: 211 m
Locality: Richmond, Qld

Nearest ACORN-SAT sites
030124 GEORGETOWN (273 km)
036031 LONGREACH (323 km)
034084 CHARTERS TOWERS (335 km)

Details
The recording site is Richmond, 030045 (pictured). The land use within 100 metres of this site is town (population between 1000 and 10,000). Further out, the land use within one kilometre of this site is town (population between 1000 and 10,000). The land type within ten kilometres is open farmland or grassland. Richmond’s site is partly covered by grass and has clay soil.

History
Measurements have been taken from the Richmond (030045) site since 1910.
Robe

Site information
Site name: ROBE
Site number: 026026
Latitude: 37.16 °S
Longitude: 139.76 °E
Elevation: 3 m
Locality: Robe, SA

Nearest ACORN-SAT sites
026021 MOUNT GAMBIER (111 km)
078015 NHILL (194 km)
023090 ADELAIDE (270 km)

Details
The recording site is Robe, 026026 (pictured). The land use within 100 metres of this site is a small town (population less than 1000). Further out, the type of land within one kilometre of this site is coastal. The land use within ten kilometres is also coastal. Robe’s site is fully covered by grass and has sand soil.

History
From 1910 to the present, measurements have been taken from the current Robe (026026) site.
Site information

Site name: ROCKHAMPTON
Site number: 039083
Latitude: 23.38 °S
Longitude: 150.48 °E
Elevation: 10 m
Locality: Rockhampton, Qld

Nearest ACORN-SAT sites

039128   BUNDABERG (253 km)
039066   GAYNDAH (275 km)
033119   MACKAY (283 km)

Details

The recording site is Rockhampton, 039083 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is city area with buildings greater than ten metres in height. Rockhampton’s site is mostly covered by grass and has clay soil.

History

Measurements have been taken from the Rockhampton (039083) site since 1939. An AWS was installed at the site on 1 April 1993.
Rutherglen

Site information
Site name: RUTHERGLEN
Site number: 082039
Latitude: 36.10 °S
Longitude: 146.51 °E
Elevation: 175 m
Locality: Rutherglen, Vic

Nearest ACORN-SAT sites
072150    WAGGA WAGGA (136 km)
074258    DENILIQUIN (154 km)
072161    CABRAMURRA (170 km)

Details
The recording site is Rutherglen, 082039 (pictured). Land use within 100 metres of this site is open farmland or grassland. Further out, the land within one kilometre of this site is also open farmland or grassland. Within ten kilometres of the site is open farmland and grassland. The Rutherglen site is mostly covered by grass and has clay soil.

History
Measurements have been taken from the site at Rutherglen (082039) since 1913, and it has operated until present. An AWS was installed at the site in January 1998.
Sale

Site information
Site name: SALE
Site number: 085072
Latitude: 38.12 °S
Longitude: 147.13 °E
Elevation: 5 m
Locality: Sale, Vic

Nearest ACORN-SAT sites
084030  ORBOST (126 km)
085096  WILSONS PROMONTORY (129 km)
086071  MELBOURNE (193 km)

Details
The recording site is Sale, 085072 (pictured). Land use within 100 metres of this site is open farmland or grassland. Further out, the land within one kilometre of this site is also open farmland or grassland. The land use within ten kilometres of the site is the city of Sale (population 13,336). The Sale site is mostly covered by grass and is on clay soil.

History
Measurements have been taken from the original site at East Sale (085072) from 1945 until 2005. An AWS was installed in June 1996 with station number 085298. The old station was closed in August 2005 and the original station number (085072) was transferred to the AWS site. The AWS number (085298) was transferred to the old station.
Scone

Site information
Site name: SCONE
Site number: 061363
Latitude: 32.03 °S
Longitude: 150.83 °E
Elevation: 221 m
Locality: Scone, NSW

Nearest ACORN-SAT sites
055024  GUNNEDAH (124 km)
061078  WILLIAMTOWN (132 km)
067105  RICHMOND (NSW) (175 km)

Details
The recording site is Scone, 061363 (pictured). Land use within 100 metres of this site is airport. Further out, the land within one kilometre of this site is still airport. The land within ten kilometres is the township of Scone (population 4624). The Scone site is fully covered by grass and has black soil.

History
The original site, Scone Soil Conservation (061089), took measurements for the period 1965 to 2000. From 1997 to the present, it has been operating at the Scone Airport (061363). An AWS was installed at the site (061363) in November 1988.
Snowtown

Site information
Site name: SNOWTOWN
Site number: 021133
Latitude: 33.77 °S
Longitude: 138.22 °E
Elevation: 109 m
Locality: Snowtown, SA

Nearest ACORN-SAT sites
023373   NURIOOTPA (107 km)
023090   ADELAIDE (134 km)
018192   PORT LINCOLN (235 km)

Details
The recording site is Snowtown, 021133 (pictured). The type of land within 100 metres of this site is open farmland or grassland. Further out, the land within one kilometre of this site is still open farmland or grassland. The land within ten kilometres is a small town (population less than 1000). Snowtown's site is mostly covered by grass and has black soil.

History
This site was previously located at Snowtown Post Office (021046) for the period from 1910 to 2001. From 1998 to the present, measurements were taken from Rayville Park (021133). A change in instrumentation occurred during the change of sites, when the temperature measurements were altered from manually read thermometers at Snowtown Post Office (021046) to automatic at Rayville Park (021133).
St George

Site information
Site name: ST GEORGE
Site number: 043109
Latitude: 28.05 °S
Longitude: 126.65 °E
Elevation: 199 m
Locality: St George, Qld

Nearest ACORN-SAT sites
053115 MOREE (202 km)
042112 MILES (221 km)
052088 WALGETT (226 km)

Details
The recording site is St George, 043109 (pictured). The land use within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is also an airport. The land within ten kilometres is a town (population of 1000 to 10,000). St George’s site is mostly covered by grass and has sandy soil.

History
This site was previously located at St George Post Office (043034) for the period from 1913 to 1997. From 1997 to the present, measurements were taken from St George Airport (043109). A change in instrumentation occurred during the change of sites, when the temperature measurements were altered from manually read thermometers at St George Post Office (043034) to automatic at St George Airport (043109).
**Site information**

- **Site name:** SYDNEY
- **Site number:** 066062
- **Latitude:** 33.86°S
- **Longitude:** 151.21°E
- **Elevation:** 39 m
- **Locality:** Sydney, NSW

**Nearest ACORN-SAT sites**

- 067105 RICHMOND (NSW) (49 km)
- 061078 WILLIAMTOWN (132 km)
- 068072 NOWRA (136 km)

**Details**

The recording site is the major city of Sydney, 066062 (pictured). Land use within 100 metres of this site is city. The land within one kilometre of this site is also city. Further out, the land within ten kilometres is city (population 3,641,422). The Sydney site is fully covered by grass and has black soil.

**History**

The site (066062), located in the city of Sydney, has taken measurements for the period from 1910 to the present. An AWS was installed at the site (066062) in April 1990.
Tarcoola

Site information
Site name: TARCOOLA
Site number: 016098
Latitude: 30.71°S
Longitude: 134.58°E
Elevation: 123 m
Locality: Tarcoola, SA

Nearest ACORN-SAT sites
018012 CEDUNA (179 km)
016001 WOOMERA (218 km)
018044 KYANCUTTA (286 km)

Details
The recording site is Tarcoola, 016098 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres is a small town (population less than 1000). Tarcoola’s site is partly covered by grass and the type of soil is sand.

History
This site was previously located at Tarcoola (016044) for the period from 1921 to 1999. From 1997 to the present, measurements were taken from Tarcoola (016098). A change in instrumentation occurred on 30 September 1997, when the temperature measurements were changed from manually read thermometers to automatic.
Tennant Creek

Site information

Site name: TENNANT CREEK
Site number: 015135
Latitude: 19.64 °S
Longitude: 134.18 °E
Elevation: 376 m
Locality: Tennant Creek, NT

Nearest ACORN-SAT sites

015666    RABBIT FLAT (440 km)
015590    ALICE SPRINGS (463 km)
014825    VICTORIA RIVER DOWNS (492 km)

Details

The recording site is Tennant Creek, 015135 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land use within ten kilometres is town (population 1000 to 10,000). Tennant Creek’s site is bare ground and has red soil.

History

This site was previously located at Tennant Creek Post Office (015087) for the period from 1910 to 1970. From 1969 to the present, measurements were taken from Tennant Creek MO (015135). An AWS was installed at the site on 1 July 1990.
Thargomindah

Site information
Site name: THARGOMINDAH
Site number: 045025
Latitude: 27.99°S
Longitude: 143.81°E
Elevation: 131 m
Locality: Thargomindah, Qld

Nearest ACORN-SAT sites
046037 TIBOOBURRA (239 km)
044021 CHARLEVILLE (298 km)
048245 BOURKE (309 km)

Details
The recording site is Thargomindah, 045025 (pictured). Land use within 100 metres of this site is an airport. Further out, the land use within one kilometre of this site is a small town (population less than 1000). The land within ten kilometres is open farmland and grassland. Thargomindah’s site is on bare ground and has red soil.

History
This site was previously located at Thargomindah Post Office (045017) for the period from 1957 to 2005. From 2002 to the present, measurements were taken from the current Thargomindah Airport (045025) site. An AWS was installed on 21 July 1999 at this site (045025).
Tibooburra

Site information
Site name: TIBOOBURRA
Site number: 046037
Latitude: 29.43 °S
Longitude: 142.01 °E
Elevation: 183 m
Locality: Tibooburra, NSW

Nearest ACORN-SAT sites
045025 THARGOMINDAH (239 km)
046043 WILCANNIA (271 km)
017031 MARREE (383 km)

Details
The recording site is Tibooburra, 046037 (pictured). The land use within 100 metres of this site is a small town (population less than 1000). Further out, the land use within one kilometre of this site is still a small town (population less than 1000). The land within ten kilometres is open farmland and grassland. Tibooburra’s site is on bare ground and has red soil.

History
From 1910 to the present, measurements have been taken from the current Tibooburra Post Office site (046037).
**Townsville**

**Site information**
- **Site name:** TOWNSVILLE
- **Site number:** 032040
- **Latitude:** 19.25°S
- **Longitude:** 146.77°E
- **Elevation:** 5 m
- **Locality:** Townsville, Qld

**Nearest ACORN-SAT sites**
- 034084 CHARTERS TOWERS (103 km)
- 031011 CAIRNS (285 km)
- 033119 MACKAY (330 km)

**Details**
The recording site is Townsville, 032040 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is city area with buildings greater than ten metres in height. Townsville’s site is partly covered with grass and has sand soil.

**History**
The Townsville airport site (032040) was opened in 1940. In 1994, the site was moved to its current location, while the old site continued to operate under a different site number (032178) between 1994 and 2000 as a comparison. An AWS was installed at the site on 8 December 1994.
Victoria River Downs

Site information
Site name: VICTORIA RIVER DOWNS
Site number: 014825
Latitude: 16.40°S
Longitude: 131.01°E
Elevation: 89 m
Locality: Victoria North, NT

Nearest ACORN-SAT sites
002012  HALLS CREEK (410 km)
015666  RABBIT FLAT (433 km)
014015  DARWIN (443 km)

Details
The recording site is Victoria River Downs, 014825 (pictured). The type of land within 100 metres of this site is grassland. Further out, the land within one kilometre of this site is forest. The land within ten kilometres is also forest. Victoria River Downs’ site is mostly covered by grass and the type of soil is clay.

History
This site was located at Victoria River Downs (014825) since it opened in 1965. A change in instrumentation occurred on 29 June 1997, when the temperature measurements were changed from manually read thermometers to automatic.
Wagga Wagga

Site information
Site name: WAGGA WAGGA
Site number: 072150
Latitude: 35.16 °S
Longitude: 147.46 °E
Elevation: 212 m
Locality: Wagga Wagga, NSW

Nearest ACORN-SAT sites
072161  CABRAMURRA (120 km)
082039  RUTHERGLEN (136 km)
073054  WYALONG (139 km)

Details
The recording site is Wagga Wagga, 072150 (pictured). Land use within 100 metres of this site is an airport. The land within one kilometre of this site is also airport. Further out, the land within ten kilometres is a city (population 46,735). The Wagga Wagga site is fully covered by grass and has red soil.

History
Measurements were taken from the original Wagga Wagga site, in Kooringal (072151) for the period 1910 to 1950. The present site (072150) was opened at the airport in 1948. An AWS was installed at this site (072150) in October 1994.
Walgett

Site information
Site name: WALGETT
Site number: 052088
Latitude: 30.04 °S
Longitude: 148.12 °E
Elevation: 133 m
Locality: Walgett, NSW

Nearest ACORN-SAT sites
053115 MOREE (177 km)
048245 BOURKE (209 km)
043109 ST GEORGE (226 km)

Details
The recording site is Walgett, 052088 (pictured). The type of land use within 100 metres of this site is an airport. Further out, the land within one kilometre of this site is a town (population of 1000 to 10,000). The land within ten kilometres is open farmland or grassland. Walgett’s site is partly covered by grass and has black soil.

History
This site was previously located at Walgett Post Office (052026) from 1910 to 1993. From 1993 to the present, measurements were taken from Walgett Airport AWS (052088). A change in instrumentation occurred on 21 May 1997, when the temperature measurements were changed from manually read thermometers to automatic.
Wandering

Site information
Site name: WANDERING
Site number: 010917
Latitude: 32.67 °S
Longitude: 116.67 °E
Elevation: 275 m
Locality: Wandering, WA

Nearest ACORN-SAT sites
009021  PERTH (106 km)
010286  CUNDERDIN (128 km)
010579  KATANNING (140 km)

Details
The recording site is Wandering, 010917 (pictured). The type of land within 100 metres of this site is grassland or farmland. Further out, the land within one kilometre of this site is also grassland or farmland, as well as the land within ten kilometres of the site. Wandering’s site is mostly covered by grass and the type of soil is sand.

History
This site was previously located at Wandering Shire (010648) for the period from 1910 to 2003. From 1998 to the present, measurements were taken from Wandering (010917). A change in instrumentation occurred on 11 December 1998, when the temperature measurements were changed from manually read thermometers to automatic.
Weipa

Site information
- Site name: WEIPA
- Site number: 027045
- Latitude: 12.68 °S
- Longitude: 141.92 °E
- Elevation: 18 m
- Locality: Weipa, Qld

Nearest ACORN-SAT sites
- 027058 HORN ISLAND (236 km)
- 028004 PALMERVILLE (437 km)
- 029063 NORMANTON (565 km)

Details
The recording site is Weipa airport, 027045 (pictured). The land use within 100 metres of this site is airport. Further out, the land use within one kilometre of this site is also airport. The land use within ten kilometres is city area with buildings greater than ten metres in height. Weipa’s site is mostly covered by grass and has clay soil.

History
This site was previously located at Weipa (027042) for the period from 1959 to 1994. From 1992 to the present, measurements were taken from the current Weipa airport (027045) site. An AWS was installed at the site on 1 December 1992.
Wilcannia

Site information
Site name: WILCANNIA
Site number: 046043
Latitude: 31.56°S
Longitude: 143.37°E
Elevation: 75 m
Locality: Wilcannia, NSW

Nearest ACORN-SAT sites
048027   COBAR (233 km)
046037   TIBOOBURRA (271 km)
048245   BOURKE (299 km)

Details
The recording site is Wilcannia, 046043 (pictured). The land use within 100 metres of this site is a small town (population less than 1000). Further out, the land use within one kilometre of this site is still a small town (population less than 1000). The land within ten kilometres is open farmland and grassland. Wilcannia’s site is partly covered by grass and has clay soil.

History
From 1957 to the present, measurements have been taken from the current Wilcannia site (046043).
Williamtown

Site information
Site name: WILLIAMTOWN
Site number: 061078
Latitude: 32.79 °S
Longitude: 151.84 °E
Elevation: 9 m
Locality: Williamtown, NSW

Nearest ACORN-SAT sites
061363  SCONE (127 km)
066062  SYDNEY (132 km)
067105  RICHMOND (NSW) (133 km)

Details
The recording site is Williamtown, 061078 (pictured). Land use within 100 metres of this site is airport. Further out, the land within one kilometre of this site is still airport. The land within ten kilometres is open farmland and grassland. The small nearby town of Williamtown has a population of 826. The Williamtown site is fully covered by grass and has sandy soil.

History
Measurements have been taken at Williamtown (061078) for the period 1942 to the present. An AWS was installed at the site (061078) in July 1999.
Wilson's Promontory

Site information
- Site name: WILSONS PROMONTORY
- Site number: 085096
- Latitude: 39.13 °S
- Longitude: 146.42 °E
- Elevation: 95 m
- Locality: Wilson’s Promontory, Vic

Nearest ACORN-SAT sites
- 085072 SALE (129 km)
- 086071 MELBOURNE (194 km)
- 087031 LAVERTON (203 km)

Details
The recording site is Wilson's Promontory, 085096 (pictured). Land use within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is also coastal. The land use within ten kilometres of the site is coastal. The Wilson's Promontory site is partly covered by grass and is on rock.

History
Measurements have been taken from Wilson's Promontory (085096) from 1910 until the present. An AWS was installed in September 2000 and has been taking measurements until the present.
Wittenoom

Site information
Site name: WITTENOOM
Site number: 005026
Latitude: 22.24 °S
Longitude: 118.34 °E
Elevation: 463 m
Locality: Wittenoom, WA

Nearest ACORN-SAT sites
004106  MARBLE BAR (188 km)
004032  PORT HEDLAND (210 km)
005007  LEARMONTH (436 km)

Details
The recording site is Wittenoom, 005026 (pictured). The type of land within 100 metres of this site is small town (population less than 1000). Further out, the land within one kilometre of this site is grassland or farmland. The land within ten kilometres is also grassland or farmland. Wittenoom’s site is mostly covered by grass and has red soil.

History
This site was located at Wittenoom (005026) since it opened in 1952.
Woomera

Site information
Site name: WOOMERA
Site number: 016001
Latitude: 31.16°S
Longitude: 136.81°E
Elevation: 167 m
Locality: Woomera, SA

Nearest ACORN-SAT sites
017031 MARREE (207 km)
016098 TARCOOLA (218 km)
018044 KYANCUTTA (250 km)

Details
The recording site is Woomera, 016001 (pictured). The type of land within 100 metres of this site is airport. Further out, the land within one kilometre of this site is also airport. The land within ten kilometres is a small town (population less than 1000). Woomera’s site is bare ground and the type of soil is clay.

History
This site was located at Woomera (016001) since it opened in 1949. An AWS was installed at the site on 20 June 1991.
Wyalong

Site information
Site name: WYALONG
Site number: 073054
Latitude: 33.93 °S
Longitude: 147.24 °E
Elevation: 245 m
Locality: Wyalong, NSW

Nearest ACORN-SAT sites
072150 WAGGA WAGGA (139 km)
063005 BATHURST (221 km)
065070 DUBBO (213 km)

Details
The recording site is Wyalong, 073054 (pictured). Land use within 100 metres of this site is the town of Wyalong (population 3191). Further out, the land within one kilometre of this site is also the town. The land within ten kilometres is grassland and open farmland. The Wyalong site is partly covered by grass and has red soil.

History
Measurements have been taken from the site at Wyalong (073054) from 1965 to the present.
Yamba

Site information
Site name: YAMBA
Site number: 058012
Latitude: 29.43 °S
Longitude: 153.36 °E
Elevation: 27 m
Locality: Yamba, NSW

Nearest ACORN-SAT sites
059040 COFFS HARBOUR (101 km)
040004 AMBERLEY (211 km)
056242 INVERELL (221 km)

Details
The recording site is Yamba, 058012 (pictured). The type of land within 100 metres of this site is coastal. Further out, the land within one kilometre of this site is a town (population of 1000 to 10,000). The land within ten kilometres is coastal. Yamba’s site is fully covered by grass and has a sandy soil.

History
From 1910 to the present, measurements have been taken from the current Yamba Pilot Station site (058012). A change in instrumentation occurred on 20 September 2007, when the temperature measurements were changed from manually read thermometers to automatic.