Casey Australian Antarctic Division

66°16′54′′S 110°31′39′′E

Type: Station

Operational period: Year-round

Location

Casey is located on Bailey Peninsula in the Windmill Islands, Wilkes Land. The peninsula is on the west coast of Law Dome, an almost circular 200 km diameter ice cap that rises to a height of 1395 m. Operations are supported by Wilkins Aerodrome, ~70 km south-east of the station.

Biodiversity and natural environment

The area's moss and lichen communities are the richest anywhere in Antarctica outside the Antarctic Peninsula. Various sites in the region, including in the station's immediate vicinity, have heightened protection as Antarctic Specially Protected Areas. Storm petrels, Snow petrels and Adélie petrels breed within 1.5 km of the station. Seals are present in small numbers.

History and facilities

The current research station, built in the 1990s and routinely modified since, replaces facilities established in 1969 at a site closer to the coast. The station is now a large and complex facility. It was named after Sir Richard Casey, an Australian Governor-General.

General research and databases

Casey-collected data sets are lodged with the Australian Antarctic Data Centre (AADC). Data held in the AADC are qualified with metadata and discoverable through the Catalogue of Australian Antarctic and Subantarctic Metadata (CAASM – http://data.aad.gov.au/aadc/metadata). Some data are also delivered through customised applications on the AADC website – http://data.aad.gov.au.

CLIMATE	
Climate zone	Coastal Antarctica
Permafrost	Discontinuous
Mean annual wind speed (km/h)	25.2
Max wind speed (km/h)	291
Dominant wind direction	E
Sea Ice Break Up	December
Snow free period	None
Total annual precipitation (mm)	
Precipitation type	Snow
Mean annual temperature (°C)	-5.9
Mean temperature in February (°C)	-0.1
Mean temperature in July (°C)	-10.5
ENVIRONMENT	
Region	Continental Antarctica
Antarctic Environmental Domain: D – East Antarctic coastal geologic	
Antarctic Conservation Biogeographic Re	gion: 7 East Antarctica
Altitude of facility (m)	32
Type of surface facility built on	Ice-free ground
Long term monitoring	Yes
Waste management	Yes
Hazard(ous) management	Yes
Fuel spill response capability	Yes



Features in the facility area

Bird colonies, Blue ice, Coast, Crevasse, Hill, Ice cap or glacier, Lake, Melt streams, Moraine, Nunatak, Other Biological, Permanent snowpatches, Rock, Sea, Sea ice, Seal colonies, Shoreline, Snow, Valley.

Area under roof (m²)800Area scientific laboratories (m²)36Type of scientific laboratories: Biology, Chemistry, Scientific diving16Conference room (capacity)17Logistic area (m²)58Number of beds9ShowersYeeLaundry facilitiesYeePower supply typeFossil fue RenewablePower supply (V)24Power supply (hours per day)22Hydroponics facilitiesYeeNumber of staff on station (peak/summer season)66Number of scientists on station (peak/summer season)1Number of scientists on station (off peak/winter season)1Number of scientists and others)Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guagesScientific services possible: Dry and wet laboratories, electonicsLong-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateMEDICAL FACILITIESYeeArea of medical facility (m²)18Staff with basic medical training or doctor (Winter)	FACILITIES INFRASTRUCTURE	
Area scientific laboratories (m²)36Type of scientific laboratories: Biology, Chemistry, Scientific divingConference room (capacity)Logistic area (m²)S8Number of beds9Showers4Power supply typeFossil fue RenewablePower supply typePower supply (V)24Power supply (hours per day)22Hydroponics facilitiesNumber of staff on station (peak/summer season)Number of staff on station (peak/summer season)Number of scientists on station (off peak/winter season)Number of scientists and others)Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guagesScientific services possible: Dry and wet laboratories, electonicsLong-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateMEDICAL FACILITIESYee Area of medical facility (m²)Staff with basic medical training or doctor (Winter)		8000
Conference room (capacity)SolutionLogistic area (m²)58Number of beds9ShowersYeLaundry facilitiesYePower supply typeFossil fue RenewablPower supply (V)24Power supply (hours per day)2Hydroponics facilitiesYeNumber of staff on station (peak/summer season)6Number of staff on station (peak/summer season)3Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Max number of personnel at a time (staff, scientists and others)9Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages2Scientific services possible: Dry and wet laboratories, electonics2Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateYeMEDICAL FACILITIESYeArea of medical facility (m²)18Staff with basic medical training or doctor (Winter)18		360
Conference room (capacity)SolutionLogistic area (m²)58Number of beds9ShowersYeLaundry facilitiesYePower supply typeFossil fue RenewablPower supply (V)24Power supply (hours per day)2Hydroponics facilitiesYeNumber of staff on station (peak/summer season)6Number of staff on station (peak/summer season)3Number of scientists on station (off peak/winter season)1Number of scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages2Scientific services possible: Dry and wet laboratories, electonics2Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateYeMEDICAL FACILITIESYeArea of medical facility (m²)18Staff with basic medical training or doctor (Winter)18	Type of scientific laboratories: Biology, Chemistry, Scientific	c divina
Logistic area (m²)58Number of beds9ShowersYeLaundry facilitiesYePower supply typeFossil fue RenewablPower supply (V)24Power supply (hours per day)2Hydroponics facilitiesYeNumber of staff on station (peak/summer season)6Number of staff on station (peak/summer season)3Number of staff on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages9Scientific services possible: Dry and wet laboratories, electonics1Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateYeMEDICAL FACILITIESYeArea of medical facility (m²)18Staff with basic medical training or doctor (Winter)18	51	5
Showers Ye Laundry facilities Ye Power supply type Fossil fue Power supply (V) 24 Power supply (hours per day) 22 Hydroponics facilities Ye Number of staff on station (peak/summer season) 6 Number of scientists on station (peak/summer season) 3 Number of staff on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Number of scientists and others) 5 Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages 5 Scientific services possible: Dry and wet laboratories, electonics 1 Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate Ye MEDICAL FACILITIES Ye Area of medical facility (m ²) 18 Staff with basic medical training or doctor (Winter) 18		584
Laundry facilitiesYeLaundry facilitiesYePower supply typeFossil fue RenewablePower supply (V)24Power supply (hours per day)2Hydroponics facilitiesYeNumber of staff on station (peak/summer season)6Number of scientists on station (peak/summer season)3Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of personnel at a time9(staff, scientists and others)9Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guagesScientific services possible: Dry and wet laboratories, electonicsLong-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateMEDICAL FACILITIESYeArea of medical facility (m²)18Staff with basic medical training or doctor (Winter)	Number of beds	99
Power supply typeFossil fue RenewablePower supply (V)24Power supply (hours per day)2Hydroponics facilitiesYeNumber of staff on station (peak/summer season)6Number of scientists on station (peak/summer season)3Number of scientists on station (peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages9Scientific services possible: Dry and wet laboratories, electonics1Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateYeMEDICAL FACILITIESYeArea of medical facility (m²)18Staff with basic medical training or doctor (Summer)18Staff with basic medical training or doctor (Winter)18	Showers	Yes
RenewablePower supply (V)24Power supply (hours per day)2Hydroponics facilitiesYetNumber of staff on station (peak/summer season)6Number of scientists on station (peak/summer season)3Number of staff on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages5Specific services possible: Dry and wet laboratories, electonics1Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateYetMEDICAL FACILITIESYetArea of medical facility (m²)18Staff with basic medical training or doctor (Summer)Staff with basic medical training or doctor (Winter)	Laundry facilities	Yes
Power supply (to)2Power supply (hours per day)2Hydroponics facilitiesYeNumber of staff on station (peak/summer season)6Number of scientists on station (peak/summer season)3Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Max number of personnel at a time9(staff, scientists and others)9Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guagesScientific services possible: Dry and wet laboratories, electonicsLong-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateMEDICAL FACILITIESYeArea of medical facility (m²)18Staff with basic medical training or doctor (Summer)Staff with basic medical training or doctor (Winter)	Power supply type	Fossil fuel, Renewable
Hydroponics facilities Ye Number of staff on station (peak/summer season) 6 Number of scientists on station (peak/summer season) 3 Number of scientists on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Max number of personnel at a time 9 (staff, scientists and others) 5 Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages 5 Scientific services possible: Dry and wet laboratories, electonics 1 Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate Ye MEDICAL FACILITIES Ye Area of medical facility (m ²) 18 Staff with basic medical training or doctor (Summer) 5 Staff with basic medical training or doctor (Winter) 18	Power supply (V)	240
Number of staff on station (peak/summer season)6Number of scientists on station (peak/summer season)3Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)1Number of scientists on station (off peak/winter season)9Max number of personnel at a time9(staff, scientists and others)9Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guagesScientific services possible: Dry and wet laboratories, electonicsLong-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climateMEDICAL FACILITIESYeArea of medical facility (m²)18Staff with basic medical training or doctor (Summer)Staff with basic medical training or doctor (Winter)	Power supply (hours per day)	24
Number of scientists on station (peak/summer season) 3 Number of staff on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Max number of personnel at a time 9 (staff, scientists and others) 9 Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages 9 Scientific services possible: Dry and wet laboratories, electonics 1 Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate Yee MEDICAL FACILITIES Yee Area of medical facility (m²) 18 Staff with basic medical training or doctor (Summer) 18 Staff with basic medical training or doctor (Winter) 18	Hydroponics facilities	Yes
Number of staff on station (off peak/winter season) 1 Number of scientists on station (off peak/winter season) 1 Max number of personnel at a time 9 (staff, scientists and others) 9 Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages 9 Scientific services possible: Dry and wet laboratories, electonics 1 Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate Ye MEDICAL FACILITIES Ye Area of medical facility (m ²) 18 Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)	Number of staff on station (peak/summer season)	67
Number of scientists on station (off peak/winter season) Max number of personnel at a time 9 (staff, scientists and others) 9 Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages 9 Scientific services possible: Dry and wet laboratories, electonics 100 Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate Yet MEDICAL FACILITIES Yet Area of medical facility (m²) 18 Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)	Number of scientists on station (peak/summer season)	32
Max number of personnel at a time 9 (staff, scientists and others) 9 Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages 9 Scientific services possible: Dry and wet laboratories, electonics 10 Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate Yet MEDICAL FACILITIES Yet Area of medical facility (m²) 18 Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)	Number of staff on station (off peak/winter season)	18
(staff, scientists and others) Specific device/Scientific equipment: GPS, induction magnetometers, ionosonde, riometer, seismometers, tide guages Scientific services possible: Dry and wet laboratories, electonics Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate MEDICAL FACILITIES Ye Area of medical facility (m ²) 18 Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)	Number of scientists on station (off peak/winter season)	2
ionosonde, riometer, seismometers, tide guages Scientific services possible: Dry and wet laboratories, electonics Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate MEDICAL FACILITIES Ye Area of medical facility (m ²) 18 Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)	1	99
Long-term monitoring/observations: lonosphere, geomagnetic and seismic, meteorology, sea birds, sea level and climate Yet MEDICAL FACILITIES Yet Area of medical facility (m²) 18 Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)	Specific device/Scientific equipment: GPS, induction magnetometers,	
seismic, meteorology, sea birds, sea level and climate MEDICAL FACILITIES Ye Area of medical facility (m²) 18 Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)		
Area of medical facility (m²) 18 Staff with basic medical training or doctor (Summer) 18 Staff with basic medical training or doctor (Winter) 18		
Staff with basic medical training or doctor (Summer) Staff with basic medical training or doctor (Winter)	MEDICAL FACILITIES	Yes
Staff with basic medical training or doctor (Winter)	Area of medical facility (m ²)	187
	Staff with basic medical training or doctor (Summer)	2
Capability: Basic, Dental, Surgery	Staff with basic medical training or doctor (Winter)	1
	Capability: Basic, Dental, Surgery	



AUSTRALIA

Main science disciplines

Atmospheric chemistry and physics, Climate change, Climatology, Ecology, Environmental sciences, Geodesy, Geophysics, GIS, Glaciology, Human biology, Hydrology, Mapping, Marine biology, Medicine, Microbiology, Pollution, Soil science, Terrestrial biology.

Equipment: Aeromedical equipment, Altitude medicine, Ana	aesthesia,	
Biochemistry, Blood transfusion medicine, Diagnostic ultras		
Diagnostic X-ray, Haematology, Laboratory diagnostics, Mi	crobiology,	
Ophthalmology, Telemedicine	0.400	
Distance to hospital (km)	3430	
Closest emergency facility in Antarctica (km)	1401	
Closest emergency facility external (km)	3430	
Medical research capabilities	Yes	
Medical screening requirements	Yes	
VEHICLES AT FACILITY		
Sea transportation:		
Land transportation: Wheeled and tracked		
WORKSHOP FACILITIES		
ICTS, Mechanical, Metal workshop, Plexiglas workshop, We	boc	
workshop		
COMMUNICATIONS		
Computer, E-mail, Fax, Internet, Printer, Satellite phone, Scanner, Telephone, VHF		
TRANSPORT AND FREIGHT		
Access	Air, Sea	
Transport to facility: Airplane, Ship.		
Number of airstrips	1	
Length (m) of longest runway	3600	
Width (m) of longest runway	45	
Number of flight visits per year 20		
Period of flight visits per year: January, February, March, November,		
December		
Helipad	Yes	
Number of ship visits per year	3	
Period of ship visits per year: January, February, March, No December	vember,	
Ship landing facilities:		

Davis Australian Antarctic Division

68°34'35.8''S 77°58'02.6''E

Type: Station

Operational period: Year-round

Location

Davis is on Broad Peninsula in the Vestfold Hills, Princess Elizabeth Land. The Vestfold Hills are an ice free region covering an area of ~400 km².

Biodiversity and natural environment

Various sites in the area have heightened protection as Antarctic Specially Protected Areas. The region's features include:

- hundreds of freshwater and saline lakes and waterbodies of outstanding and unique scenic variety and beauty, and intrinsic, scientific and educational value;
- hundreds of thousands of breeding birds, including populations/sites with international status;
- a palaeontological site of world significance.

History and facilities

The first landing in the region was made in 1935. Davis was established in 1957, rebuilt in the 1990s and has been routinely modified since. The station is now a large and complex facility.

General research and databases

Davis-collected data sets are lodged with the Australian Antarctic Data Centre (AADC). Data held in the AADC are qualified with metadata and discoverable through the Catalogue of Australian Antarctic and Subantarctic Metadata (CAASM – http://data.aad.gov.au/aadc/metadata). Some data are also delivered through customised applications on the AADC website – http://data.aad.gov.au.

CLIMATE	
Climate zone	Coastal Antarctica
Permafrost	Discontinuous
Mean annual wind speed (km/h)	19.6
Max wind speed (km/h)	206
Dominant wind direction	NE
Sea Ice Break Up	December
Snow free period	January, December
Total annual precipitation (mm)	
Precipitation type	Snow
Mean annual temperature (°C)	-7.3
Mean temperature in February (°C)	-0.2
Mean temperature in July (°C)	-14.3
ENVIRONMENT	
Region	Continental Antarctica
Antarctic Environmental Domain: D – East Antarctic coastal geologic	
Antarctic Conservation Biogeographic Reg	ion: 7 East Antarctica
Altitude of facility (m)	27
Type of surface facility built on	Ice-free ground
Long term monitoring	Yes
Waste management	Yes
Hazard(ous) management	Yes
Fuel spill response capability	Yes



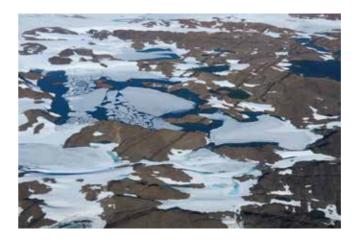
Features in the facility area

Bird colonies, Coast, Crevasse, Fjord, Hill, Ice cap or glacier, Lake, Melt streams, Moraine, Other Biological, Permanent snowpatches, Plateau, Rivers, Rock, Sea, Sea ice, Seal colonies, Shoreline, Snow.

Main science disciplines

Atmospheric chemistry and physics, Climate change, Climatology, Ecology, Environmental sciences, Geodesy, Geology, Geophysics, GIS, Glaciology, Human biology, Limnology, Mapping, Marine biology, Medicine, Microbiology, Oceanography, Paleoecology, Pollution, Soil science, Terrestrial biology.





AUSTRALIA

FACILITIES INFRASTRUCTURE		
Area under roof (m ²)	8000	
Area scientific laboratories (m ²)	400	
Type of scientific laboratories: Biology, Chemistry, Scienti		
Conference room (capacity)	5	
Logistic area (m ²)	578	
Number of beds	91	
Showers	Yes	
Laundry facilities	Yes	
Power supply type	Fossil fuel	
Power supply (V)	240	
Power supply (hours per day)	24	
Hydroponics facilities	Yes	
Number of staff on station (peak/summer season)	62	
Number of scientists on station (peak/summer season)	29	
Number of staff on station (off peak/winter season)	15	
Number of scientists on station (off peak/winter season)	2	
Max number of personnel at a time (staff, scientists and others)	91	
Specific device/Scientific equipment: All sky camera, clou		
GPS, Induction magnetometers, meteor radars, MFSA rad		
onosonde, riometers, scanning OH radiometer, spectome Scientific services possible: Dry and wet laboratories, elec		
Long-term monitoring/observations: Geomagnetic, ionos	ohere, lower	
middle and upper atmosphere, meteorology, sea birds, se climate	a level and	
MEDICAL FACILITIES	Yes	
Area of medical facility (m ²)	191	
Staff with basic medical training or doctor (Summer)	1	
Staff with basic medical training or doctor (Winter)	1	
Capability: Basic, Dental, Surgery	4826	
Equipment: Aeromedical equipment, Altitude medicine, Anaesthesia, Biochemistry, Blood transfusion medicine, Diagnostic ultrasound, Diagnostic X-ray, Haematology, Laboratory diagnostics, Microbiology, Ophthalmology, Telemedicine		
Distance to hospital (km)	4826	
Closest emergency facility in Antarctica (km)	109	
Closest emergency facility external (km)	4826	
Medical research capabilities	Yes	
Medical screening requirements	Yes	
VEHICLES AT FACILITY		
Sea transportation:		
Land transportation: Wheeled and tracked WORKSHOP FACILITIES		
ICTS, Mechanical, Metal workshop, Plexiglas workshop, V workshop	Vood	
COMMUNICATIONS		
Computer, E-mail, Fax, Internet, Printer, Satellite phone, Scanner,		
Telephone, VHF TRANSPORT AND FREIGHT		
Access	Air, Sea	
Transport to facility: Airplane, Ship	,	
Number of airstrips	2	
Length (m) of longest runway	2200	
Width (m) of longest runway	50	
Number of flight visits per year	20	
Period of flight visits per year: January, February, March, November, December		
Helipad	Yes	
Number of ship visits per year	3	
Period of ship visits per year: January, February, March, N		
December		
Ship landing facilities: None		

Mawson Australian Antarctic Division

67°36'09.7''S 62°52'27.7''E

Type: Station Operational period: Year-round

Location

Mawson is located on the south-eastern shore of Horseshoe Harbour, a small ice-free rock outcrop ~ 900 m by 700 m on the edge of the continental ice cap. The coastline to both Mawson's east and west is mostly sheer ice cliffs, while the continental ice sheet behind it attains a height of some 1000 m within 35 km.

Biodiversity and natural environment

The region around Mawson supports breeding colonies of Emperor and Adélie penguins, snow petrels, Antarctic petrels, Wilson's storm petrels, cape petrels, southern giant petrels, Antarctic fulmars and skuas. Weddell seals are common in the vicinity of the station – other species less so. Various sites in the station's vicinity have heightened protection as Antarctic Specially Protected Areas.

History and facilities

The Australian flag was first raised at the Mawson station site on 13 February 1954 by a party led by Dr Phillip Law. A research station has continuously occupied the site since. It was named after Sir Douglas Mawson. The original station was replaced in the 1990s, some of the original buildings remain on site.

General research and databases

Mawson-collected data sets are lodged with the Australian Antarctic Data Centre. Data held in the AADC are qualified with metadata and discoverable through the Catalogue of Australian Antarctic and Subantarctic Metadata (CAASM – http://data.aad. gov.au/aadc/metadata). Some data are also delivered through customised applications on the AADC website – http://data.aad. gov.au.

CLIMATE		
Climate zone	Coastal Antarctica	
Permafrost	Discontinuous	
Mean annual wind speed (km/h)	41	
Max wind speed (km/h)	248	
Dominant wind direction	SE	
Sea Ice Break Up	January	
Snow free period	None	
Total annual precipitation (mm)		
Precipitation type	Snow	
Mean annual temperature (°C)	-8.3	
Mean temperature in February (°C)	-1.4	
Mean temperature in July (°C)	-15	
ENVIRONMENT		
Region	Continental Antarctica	
Antarctic Environmental Domain: D – East Antarctic coastal geologic		
Antarctic Conservation Biogeographic Region: 7 East Antarctica		
Altitude of facility (m)	15	
Type of surface facility built on	Ice-free ground	
Long term monitoring	Yes	
Waste management	Yes	
Hazard(ous) management	Yes	
Fuel spill response capability	Yes	



Features in the facility area

Bird colonies, Blue ice, Coast, Crevasse, Hill, Ice cap or glacier, Ice shelf, Melt streams, Moraine, Nunatak, Other Biological, Permanent snowpatches, Plateau, Rock, Sea, Sea ice, Seal colonies, Shoreline, Snow.

FACILITIES INFRASTRUCTURE	
Area under roof (m ²)	6000
Area scientific laboratories (m ²)	144
Type of scientific laboratories:	
Conference room (capacity)	
Logistic area (m ²)	552
Number of beds	53
Showers	Yes
Laundry facilities	Yes
Power supply type	Fossil fuel, Renewable
Power supply (V)	240
Power supply (hours per day)	24
Hydroponics facilities	Yes
Number of staff on station (peak/summer season)	50
Number of scientists on station (peak/summer season)	3
Number of staff on station (off peak/winter season)	15
Number of scientists on station (off peak/winter season)	
Max number of personnel at a time (staff, scientists and others)	53
Specific device/Scientific equipment: Ionosonde, GPS, n neutron detectors, riometers, seismometers, tide gauges	0 .
Scientific services possible: Dry laboratory, electonics	
Long-term monitoring/observations: Cosmic ray, geomag	,
seismic, ionosphere, meteorology, sea level and climate,	sea birds Yes
MEDICAL FACILITIES	184
Area of medical facility (m ²)	184
Staff with basic medical training or doctor (Summer)	1
Staff with basic medical training or doctor (Winter)	1
Capability: Basic, Dental, Surgery	



AUSTRALIA

Main science disciplines

Atmospheric chemistry and physics, Climate change, Climatology, Ecology, Environmental sciences, Geodesy, Geophysics, GIS, Glaciology, Human biology, Mapping, Marine biology, Medicine, Pollution.

Equipment: Aeromedical equipment, Altitude medicine, Anaesthesia, Biochemistry, Blood transfusion medicine, Diagnostic ultrasound, Diagnostic X-ray, Haematology, Laboratory diagnostics, Microbiology, Ophthalmology, Telemedicine	
Distance to hospital (km)	4593
Closest emergency facility in Antarctica (km)	636
Closest emergency facility external (km)	4593
Medical research capabilities	Yes
Medical screening requirements	Yes
VEHICLES AT FACILITY	
Sea transportation:	
Land transportation: Wheeled and tracked	
WORKSHOP FACILITIES	
ICTS, Mechanical, Metal workshop, Plexiglas workshop, Wood	
workshop	
COMMUNICATIONS	
Computer, E-mail, Fax, Internet, Printer, Satellite phone, Scanner,	
Telephone, VHF	
	A1 0
Access	Air, Sea
Transport to facility: Airplane, Ship	
Number of airstrips	2
Length (m) of longest runway	1620
Width (m) of longest runway	90
Number of flight visits per year	10
Period of flight visits per year: January, February, March, November, December	
Helipad	Yes
Number of ship visits per year	
Period of ship visits per year: January, February, March, N December	lovember,
Ship landing facilities:	