

AUSTRALIAN ANTARCTIC TERRITORY

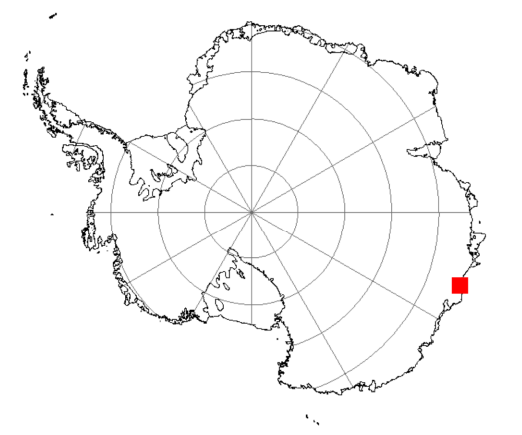


WINDMILL ISLANDS

CASEY TO WILKINS
AERODROME
(DIGITAL ONLY)

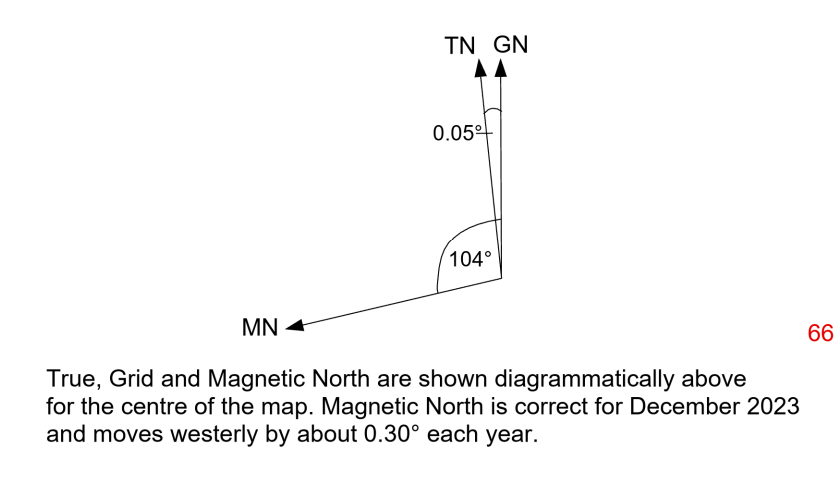
ANTARCTICA

Edition 4

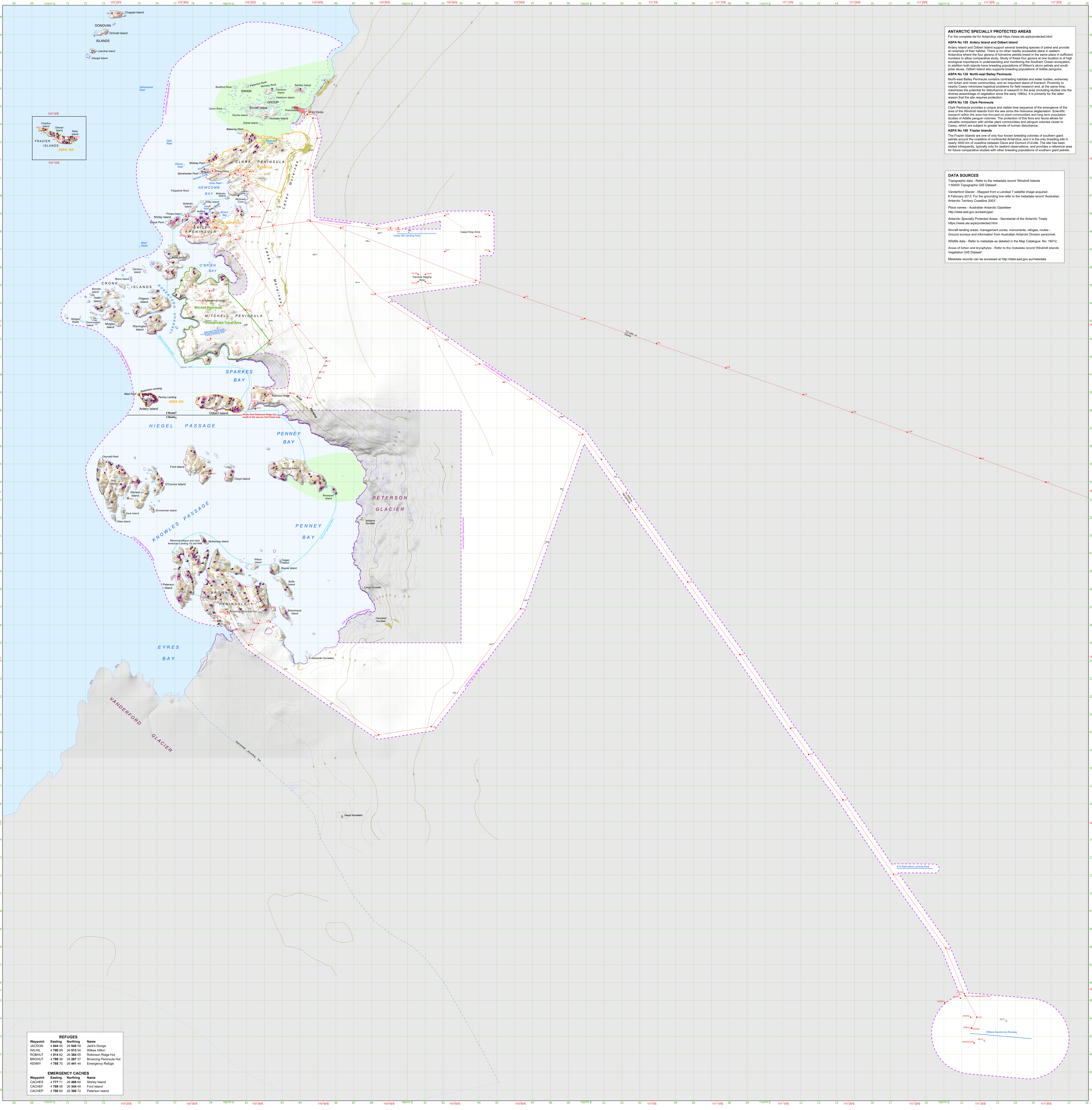
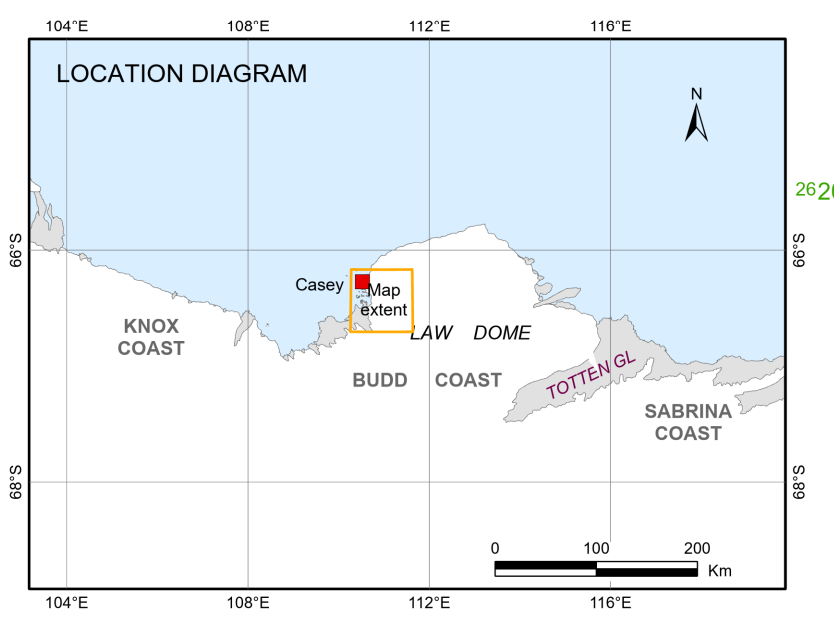


Scale 1 : 50 000

PROJECTION: Universal Transverse Mercator Zone 49
HORIZONTAL DATUM: WGS84
VERTICAL DATUM: Mean Sea Level
CONTOUR INTERVAL: 20 metres
NOMENCLATURE: Names have been approved and are sourced from the Australian Antarctic Gazetteer



- 175 Spot elevation (metres)
- ▲ Reef
- ▲ Monument
- ▲ Ridge
- ▲ Emergency cache
- ▲ Camp
- ▲ Antarctic Research Coast Landing site
- ▲ Antarctic Weather Station (AWS)
- Station
- Station (decommissioned)
- ⊙ Helicopter landing area with/without facilities
- Road - Road, Waypoint
- Road - approximate, Waypoint
- Coastline
- Front of an ice tongue
- Drawing line of an ice tongue
- Crevasse
- Ice shelf
- Rock out
- Contour (20m interval) definition/contour
- Contour (20m interval) definition/contour
- Lichen
- Bryophytes
- Lake
- Moraine
- Ice-free area
- Antarctic petrel nesting area
- Cape petrel nesting area
- Snow petrel nesting area
- South polar skua nesting area
- Southern fulmar nesting area
- Southern giant petrel nesting area
- Wilson storm petrel nesting area
- Adie's penguin colony
- Southern elephant seal roosting area (Jan - May)
- Hottel seal roosting area (Oct - Nov)
- Note: Hottel seal areas may be present on sea ice in the field on edge
- Antarctic Specially Protected Area (ASPA)
- Note: ASPA areas may be present on sea ice in the field on edge
- Limit of Station Operational Area
- The Station Leader may grant permission for travel within this boundary. Operations outside this boundary require Head Office approval.
- Sea Ice Travel Boundary
- The Station Leader may grant permission for travel on sea ice up to this boundary. Sea ice travel outside this boundary requires Head Office approval.
- Mitchell Peninsula Unrestricted Travel Area
- Vehicle and foot travel are permitted anywhere within the area.
- Extent of Casey Recreation Limits map
- Hazard - Features in ice camp may be present
- City to be assessed after PFD assessment and approval from Fleet Operations Manager



ANTARCTIC SPECIALLY PROTECTED AREAS
For the complete list for Antarctica visit <https://www.ats.gov.au/protected.html>

ASPA No 163 Artery Island and Othert Island
Artery Island and Othert Island support several breeding species of penguin and provide an example of their habitat. There is no other nearby accessible place in eastern Antarctica where the four genera of fulmar penguins breed in the same place in sufficient numbers to allow comparative study. Study of these four genera at one location is of high ecological importance in understanding and monitoring the Southern Ocean ecosystem. In addition both islands have breeding populations of Wilson's storm petrel and south polar skua. Othert Island also supports breeding populations of Adie's penguins.

ASPA No 138 North-east Bailey Peninsula
North-east Bailey Peninsula contains contrasting habitats and water bodies, extremely low lichen and moss coverages, and an important state of tundra. Proximity to nearby Casey minimizes logistical problems for field research and, at the same time, maximizes the potential for disturbance of research in the area including studies into the diverse assemblage of vegetation since the early 1950s. It is primarily for the latter reason that the site requires protection.

ASPA No 136 Clark Peninsula
Clark Peninsula provides a unique and viable time sequence of the emergence of the area of the Windmill Islands from the sea since the Holocene deglaciation. Scientific research within the area has focused on plant communities and long term population studies of Adie's penguin colonies. The protection of this flora and fauna allows for valuable comparison with similar plant communities and penguin colonies closer to Casey, which are subject to greater levels of human disturbance.

ASPA No 160 Frazier Islands
The Frazier Islands are one of only four known breeding colonies of southern giant petrels around the coastline of continental Antarctica, and is the only breeding site in nearly 5000 km of coastline between Clark and Dumont d'Urville. The site has been visited infrequently, typically only for seabird observations, and provides a reference area for future comparative studies with other breeding populations of southern giant petrels.

DATA SOURCES

Topographic data - Refer to the metadata record Windmill Islands 1:50000 Topographic GIS Dataset

Vanderford Glacier - Mapped from a Landsat 7 satellite image acquired 6 February 2013. For the geospatial file refer to the metadata record Australian Antarctic Territory Coastline 2007.

Place names - Australian Antarctic Gazetteer <http://names.ats.gov.au/auantgaz/>

Antarctic Specially Protected Areas - Secretariat of the Antarctic Treaty <https://www.ats.gov.au/protected.html>

Aircraft landing areas, management zones, monuments, refuges, routes - Ground surveys and information from Australian Antarctic Division personnel.

Wildlife data - Refer to metadata as detailed in the Map Catalogue, No. 16012.

Areas of lichen and bryophytes - Refer to the metadata record Windmill Islands Vegetation GIS Dataset.

Metadata records can be accessed at <http://data.ats.gov.au/metadata>

REFUGES			
Waypoint	Easting	Northing	Name
JACDON	4 844 00	20 646 09	Jack's Dingo
WILKS	4 790 00	20 613 04	Wilks Hut
ROBHUT	4 814 62	20 384 05	Robinson Ridge Hut
BROWHT	4 799 00	20 282 37	Browning Peninsula Hut
KENNY	4 785 70	20 441 44	Emergency Refuge

EMERGENCY CACHES			
Waypoint	Easting	Northing	Name
CACHE8	4 777 71	20 488 00	Stinky Island
CACHE9	4 789 00	20 344 49	Foot Island
CACHEP	4 780 00	20 300 72	Poterson Island

Produced by the Australian Antarctic Data Centre
September 2023, Map Catalogue No. 16013
Map Catalogue at <http://names.ats.gov.au/metadata/>
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