

**AUSTRALIAN ANTARCTIC TERRITORY**

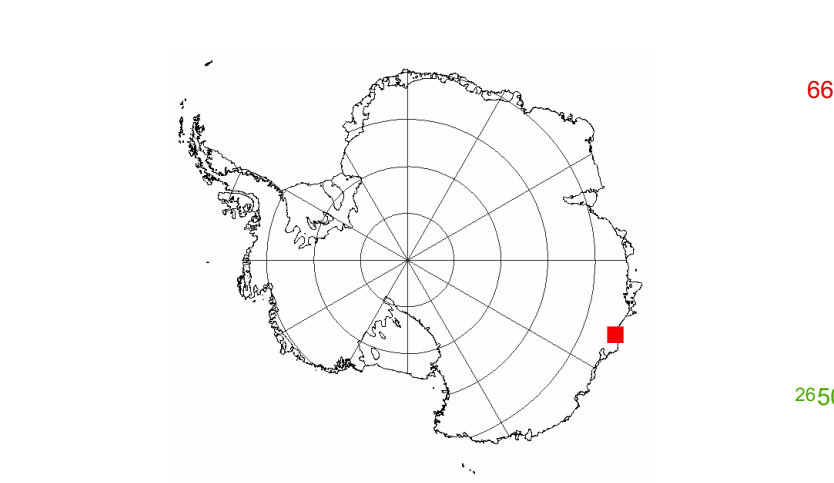


**WINDMILL ISLANDS**

CASEY TO WILKINS AERODROME (DIGITAL ONLY)

**ANTARCTICA**

Edition 3

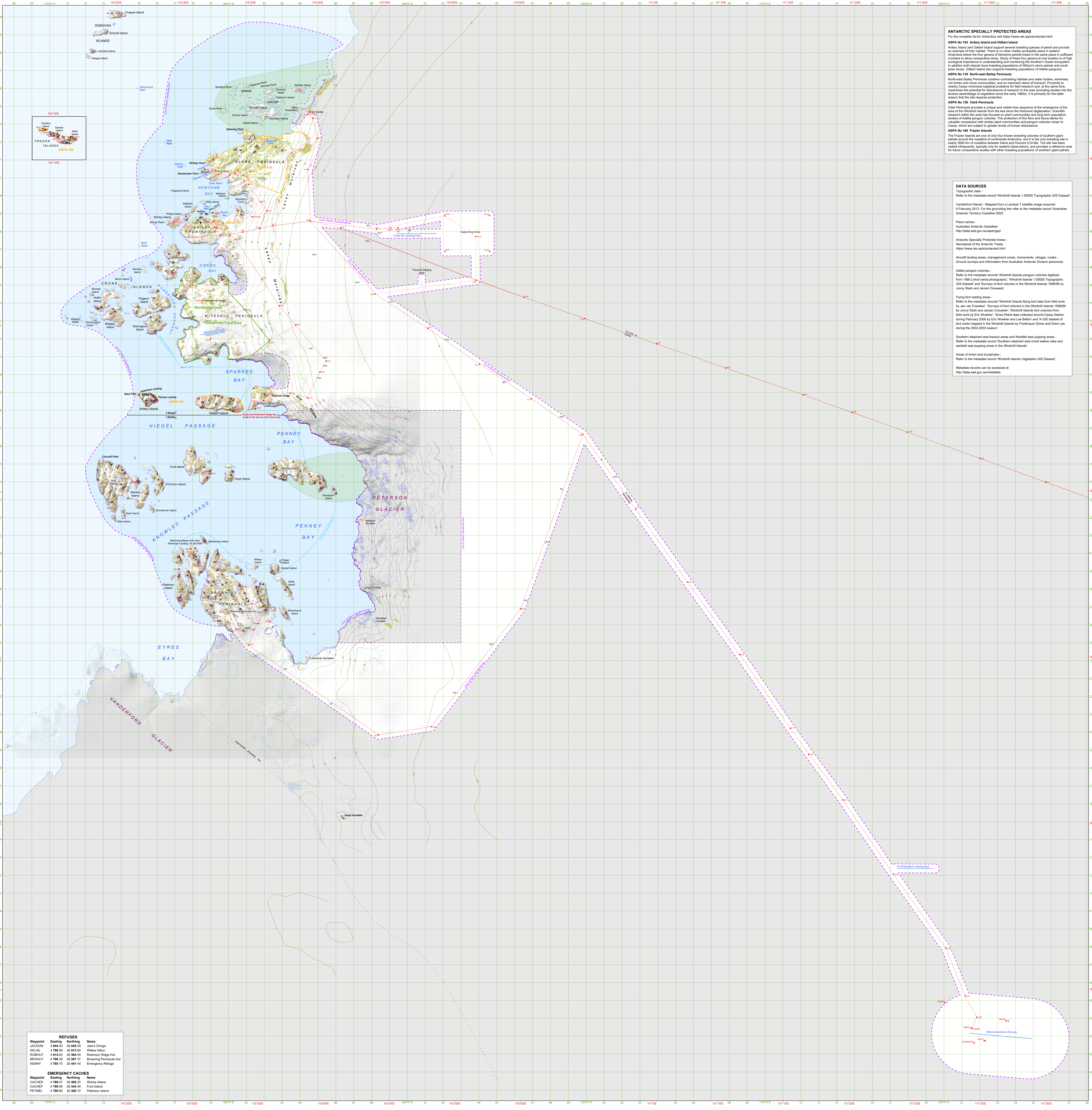
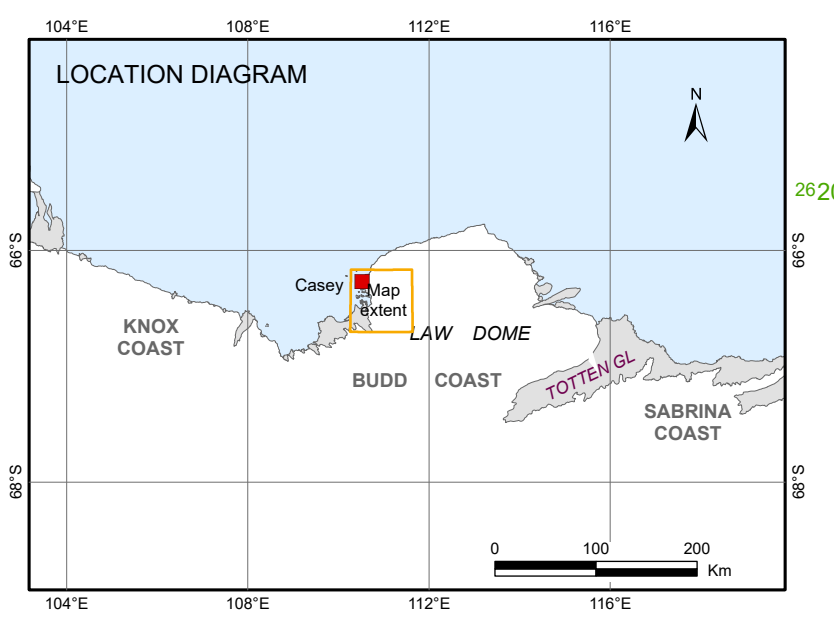


Scale 1 : 50 000

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

True, Grid and Magnetic North are shown diagrammatically above for the corner of the map. Magnetic North is correct to December 2022 and moves westerly by about 0.2° each year.

- 175 Contour elevation (metres)
- Reef
- Monument
- Relief
- Emergency cache
- Camp
- Reliable Rescue Boat landing site
- Automatic Weather Station (AWS)
- Station
- Station uncommissioned
- Helicopter landing area with fuel facilities
- Helicopter landing area without facilities
- Route - fixed, Waypoint
- Route - approximate, Waypoint
- Coastline
- Front of an ice drain
- Overlapping line of an ice tongue
- Cleavase
- Ice shelf
- Rock out
- Contour (20m interval) definition/comment
- Contour (20m interval) definition/comment
- Lichen
- Biopyrites
- Lake
- Mosses
- 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's storm petrel nesting area
- Adelie penguin colony
- Southern elephant seal rookery area (Jan - May)
- Weddell seal pupping area (Dec - Nov)
- Antarctic Specially Protected Area (ASPA) Entry is prohibited without a permit. All activities must be in accordance with the management plan.
- 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.
- Michael Peninsula Unrestricted Travel Area Vehicles and foot travel are permitted anywhere within this area.
- Extent of Casey Recreation Levels map



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

**ASPA No 163 Anzley Island and Othert Island**  
 Anzley Island and Othert Island support several breeding species of penguin and provide an example of their habitat. There are other nearby islands in southern Antarctica where the four genera of fulmarine 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 Adelie penguins.

**ASPA No 138 North-east Bailey Peninsula**  
 North-east Bailey Peninsula contains contrasting habitats and water bodies, extremely rich faunal and coastal communities, and important stands of herbwood. Proximity to nearby Casey minimizes logistical problems for field research and, at the same time, maximizes the potential for disturbance-free 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 visible 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 Adelie 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 3000 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 grounding line refer to the metadata record 'Australian Antarctic Territory Coastline 2003'

Place names  
 Australian Antarctic Gazetteer  
<http://data.ats.gov.au/aahaz/gaz/>

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.

Adelie penguin colonies - Refer to the metadata records 'Windmill Islands penguin colonies digitised from 1950 bird aerial photography', 'Windmill Islands 1:50000 Topographic GIS Dataset' and 'Surveys of bird colonies in the Windmill Islands 1998/99 by Jonny Stank and Jeroen Grootveld'

Flying bird nesting areas - Refer to the metadata records 'Windmill Islands flying bird data from field work by Jan van Franeker', 'Surveys of bird colonies in the Windmill Islands 1998/99 by Jonny Stank and Jeroen Grootveld', 'Windmill Islands bird colonies from field work by Eric Wooller', 'Snow Petrel data collected around Casey Station during February 2003 by Eric Wooller and Lee Batten' and 'A GIS dataset of bird nests mapped in the Windmill Islands, by Frederique Olivier and Diane Lee during the 2002-2003 season'

Southern elephant seal rookery areas and Weddell seal pupping areas - Refer to the metadata record 'Southern elephant seal rookery sites and Weddell seal pupping areas in the Windmill Islands'

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	20 545 09	Jack's Dome
WELSH	4 790 00	20 613 06	Wilkes Haven
ROBHUT	4 814 62	20 384 05	Robinson Ridge Hut
BROGHU	4 799 00	20 287 37	Brewing Peninsula Hut
KENNY	4 785 70	20 441 44	Emergency Refuge

EMERGENCY CACHES			
Waypoint	Easting	Northing	Name
CACHE5	4 789 07	20 446 25	Shirley Island
CACHEF	4 789 05	20 344 49	Foot Island
PETMEL	4 786 60	20 300 72	Poterson Island

CAUTION: Absence of the depiction of ice-free areas does not necessarily indicate an ice-free area.

Produced by the Australian Antarctic Data Centre  
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 Please email comments to: [mapinfo@antarctica.gov.au](mailto:mapinfo@antarctica.gov.au)