

**WEATHER WARNING**  
Weather conditions in the Casey area are subject to rapid deterioration. Early indications of approaching bad weather are cirrus clouds in the south and south-east, followed by drift tails above the Loken Moraine. Once the weather starts to deteriorate, you should seek shelter immediately.

**SEA-ICE WARNING**  
The sea-ice at Casey rarely reaches greater than 500mm in thickness and may frequently be blown out during the year. Extreme caution must be exercised when travelling on the sea-ice do not travel alone, do carry a rope, and take procedures as detailed in the ANARE Field Manual. Cross-country skiing is the safest form of sea-ice travel at Casey.

**MELT WARNING**  
During the period December-February the plateau ice and snow at Casey melt extensively, resulting in deep ravines and melt lakes, especially near the coast. These features persist until frozen or filled in by winter weather. Beware when travelling by any means that a break-through into a melt-lake or stream may be sudden or violent.

**RUBBISH CONTROL**  
Wind will rapidly disperse un-secured rubbish; please collect all waste and return it to the station for disposal or mark and secure it for later removal.

**SITES OF SPECIAL SCIENTIFIC INTEREST**  
(ENTRY TO THESE SITES IS STRICTLY BY PERMIT ONLY)  
SSSI 16 is located on the eastern boundary of station limits and is gazetted to protect the extremely rich lichen and moss communities. It contains the main site on the Antarctic continent for liverwort.  
SSSI 17 is located on the Clark Peninsula to the east of Wilkes, and is gazetted to protect moss and lichen control sites which provide baseline data to monitor environmental impact at Casey.

**MOVEMENT IN THE AREA**  
The Casey area is extremely rich in moss and lichen beds, and contains many breeding sites for Wilson's Storm Petrels and Snow Petrels; vehicles are restricted to prepared roads, ice or snow-covered surfaces to protect these features. When moving about the area by vehicle or foot please avoid disturbance to breeding birds, and where at all possible, avoid walking through moss or lichen beds.

**MAGNETICALLY QUIET ZONES**  
**QUIET ZONE 1 (AGSO):** Building activity and use of vehicles or equipment should not occur within a 100m radius of the Magnetometer Buildings. Approach by foot should be avoided within a 50m radius of these buildings.  
**QUIET ZONE 2 (ASP):** comprises a Fluxgate Magnetometer (on the station ship) and Induction Magnetometer (nearest from station). The Fluxgate Magnetometer measures variations in the Earth's magnetic field and is used in conjunction with the (AGSO) Absolute Magnetometers to establish baselines. The Induction Magnetometer measures rapid variations in the Earth's magnetic field.

**RADIO FREQUENCY (RF) QUIET ZONE**  
Vehicles and radios should not be used within this quiet zone.

**GPS ANTENNA**  
Building activity and use of vehicles or equipment should not occur within a 50m radius of the GPS antenna. The antenna should not be approached by foot closer than 5m.

**CASEY METEOROLOGICAL DETAILS**

	January	February	March	April	May	June	July	August	September	October	November	December
Average mean daily maximum (C)	2.9	0.4	-3.5	-7.8	-9.1	-9.5	-10.7	-11.4	-10.8	-7.1	-2.0	2.0
Average mean daily minimum (C)	-1.9	-4.8	-9.1	-14.5	-17.1	-18.3	-18.2	-18.0	-14.8	-9.9	-3.2	-3.2
Days 5.1mm or more rainfall	6	8	9	10	10	10	10	10	10	10	10	10
Average mean daily wind speed (km/h)	18.0	18.0	22.0	22.0	24.0	24.0	24.0	24.0	28.0	28.0	28.0	19.0
Average mean daily sunshine (hours)	6.5	3.0	3.0	2.0	1.0	0.4	0.5	1.2	3.3	4.9	8.3	8.2
Average number of gale days (24 knots)	7.0	8.0	8.0	7.0	9.0	10.0	12.0	11.0	9.0	8.0	6.0	6.0
Highest maximum wind gust (km/h)	67/165	110/167	130/176	135/209	160/255	180/220	180/217	180/230	110/291	100/232	110/202	100/204

**TO**

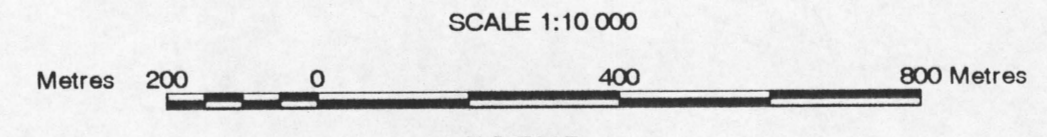
S1	7 KM
JACK'S DONGA	10 KM
LANYON JUNCTION	16 KM
BLYTH JUNCTION	67 KM
BROWNING PENINSULA	69 KM
ANTARCTIC CIRCLE	79 KM
S2	84 KM
DOMESTIC BUILDING	118 KM

MAGNETIC NORTH IS CORRECT FOR CASEY STATION FOR 1995 AND MOVES WESTERLY BY ABOUT 0.1 DEGREES PER ANNUM

COMPILED FROM AERIAL PHOTOGRAPHY DATED JANUARY 1994  
COMPLETION DATE: SEPTEMBER 1994  
FILM NO. ANT100 FRAMES 95-128 DATE: 4-1-1994  
FILM NO. ANT100 FRAMES 40-88 DATE: 4-1-1994  
VERTICAL DATUM: MEAN SEA LEVEL  
HORIZONTAL DATUM: WORLD GEODETIC SYSTEM 1984  
PROJECTION: UNIVERSAL TRANSVERSE MERCATOR, ZONE 49  
CONTOUR INTERVAL: 10 METRES

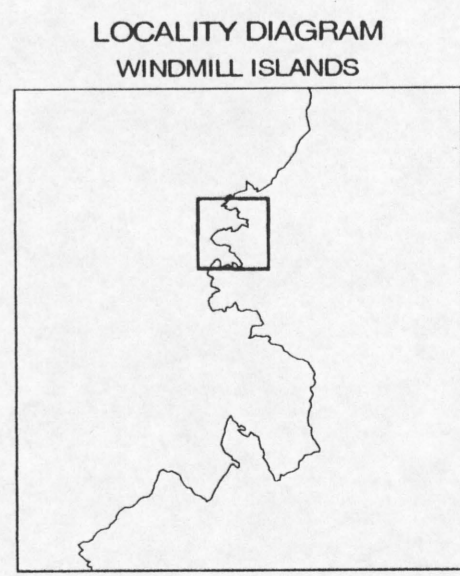
- HOW TO QUOTE A GRID REFERENCE FOR A PARTICULAR POINT**  
eg G20 on BEALL ISLAND
- Quote this map.....CASEY
  - Locate the VERTICAL line of grid ticks to the left of the point .....76
  - Estimate the tenths from the line of ticks to the point .....8
  - Locate the HORIZONTAL line of grid ticks below the point .....46
  - Estimate the tenths from the line of ticks to the point .....3
- Thus the reference for G20 is CASEY 769463

WARNING: ABSENCE OF CREVASSE SYMBOL DOES NOT MEAN CREVASSES ARE ABSENT



- LEGEND**
- CONTOUR MINOR
  - CONTOUR MAJOR
  - CONTOUR DEPRESSION
  - CONTOUR (APPROXIMATE)
  - EXPOSED ROCK
  - SPOT HEIGHT
  - COAST
  - COAST (APPROX)
  - TOP ICE CLIFF
  - ROAD
  - MELT LAKE
  - BUILDING
  - SURVEY MARK (MONUMENTED)
  - BENCH MARK
  - MAST OR AERIAL
  - HELICOPTER PAD
  - ANCHORAGE
  - ADELIE PENGUIN ROOKERY
  - FOOT/SKI ROUTE
  - OVERSNOW ROUTE
  - REFUGE

- INDEX TO BUILDINGS**
- |                             |                    |
|-----------------------------|--------------------|
| 1 INNESTAD ROOM             | 10 POWER HOUSE     |
| 2 WORKSHOP                  | 11 TANK HOUSE      |
| 3 EMERGENCY VEHICLE SHELTER | 12 OPERATIONS      |
| 4 BLACK FUEL FARM           | 13 BALCON BUILDING |
| 5 SELESTONES                | 14 EMERGENCY POWER |
| 6 STORE                     | 15 WASTE TREATMENT |
| 7 INCUBATOR                 | 16 WIND TURBINE    |
| 8 DOMESTIC BUILDING         | 17 WORKSHOP        |
| 9 SCIENCE                   | 18 WORKSHOP        |



AUSTRALIAN ANTARCTIC TERRITORY  
**CASEY STATION**  
LOCAL AREA MAP  
THIRD EDITION - SEPTEMBER 1996

