

AUSTRALIAN ANTARCTIC TERRITORY



SITE OF SPECIAL SCIENTIFIC INTEREST No. 16 NORTH-EAST BAILEY PENINSULA, BUDD COAST, WILKES LAND

Management Plan

i. Description of Site.

Bailey Peninsula is situated between Newcomb and O'Brien Bays at the west end of Vincennes Bay, opposite the Windmill Islands, on Budd Coast at lat 66°17'S, long 110°32'E.

The site consists of an irregular area of rock exposed during summer, surrounding the Casey Station transmitter building. The boundary, which is demarcated, is shown on the map attached to the Management Plan for Site of Special Scientific Interest No 17 (below).

ii. Reason for designation.

The Site is not unique in the Windmill Islands region context but is representative of a diverse assemblage of vegetation; it contains contrasting habitats and water bodies; has extremely rich (by continental Antarctic standards) lichen and moss communities and an important stand of liverwort. Proximity to Casey Station minimizes logistic problems with respect to field research and, at the same time, maximizes the potential for disturbance of study areas. It is primarily for this latter reason that this Site, where research is concentrated, requires protection.

iii. Outline of research.

The Site contains three extensive and contrasting moss fields which are the subject of taxonomic, ecological and physiological studies which commenced during the summer of 1982-83. Additional studies include population ecology of invertebrates associated with the vegetation, and soil/water chemistry. Permanent lichen growth monitoring sites have also been established as have sites monitoring annual growth increments in mosses.

iv. Date of expiry of designation.

31 December 2000.

v. Access points.

None specified, although access to the transmitter building near the south-east end of the Site should be via the ice/snow of the oversnow access route to Law Dome, several kilometres to the south.

vi. Pedestrian and vehicular routes.

Access to the area should be restricted as far as possible to that necessary to conduct scientific work and operate the transmitter building. Vehicles should be restricted to existing access routes. These are clearly demarcated. No helicopter landing is permitted within the Site. Particular care should be taken to avoid damage to bryophytes and lichens, disrupting of soil and periglacial features, and to avoid causing changes to water quality or drainage. Selected study reference areas (eg three contrasting moss communities) have been delimited by marked stakes without causing disturbance to the environment. Access to these areas should be restricted to scientists participating in the study programme.

vii. Other kinds of scientific investigations which would not cause harmful interference.

Scientific research other than the programmes for which the Site has been designated should be kept to a minimum.

viii. Scientific sampling.

Sampling should be kept to the minimum and should not affect the existing research programmes.

ix. Other restraints.

No storage or disposal of any products relating to human occupancy of the Station should occur in the Site.

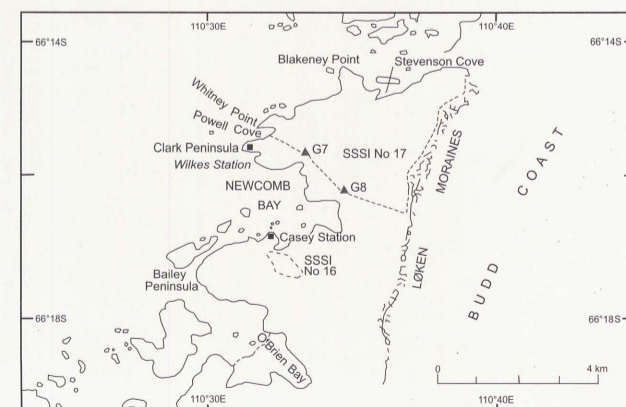


Figure 1

Note :

1. SSSI boundary on Figure 2 is a proposed new boundary. The current legal boundary is defined in the Management Plan and indicated in Figure 1.
2. When travelling from Casey to Law Dome or Penguin Pass, care should be exercised not to venture north of the indicated route. To do so may result in unauthorised entry into SSSI 16.

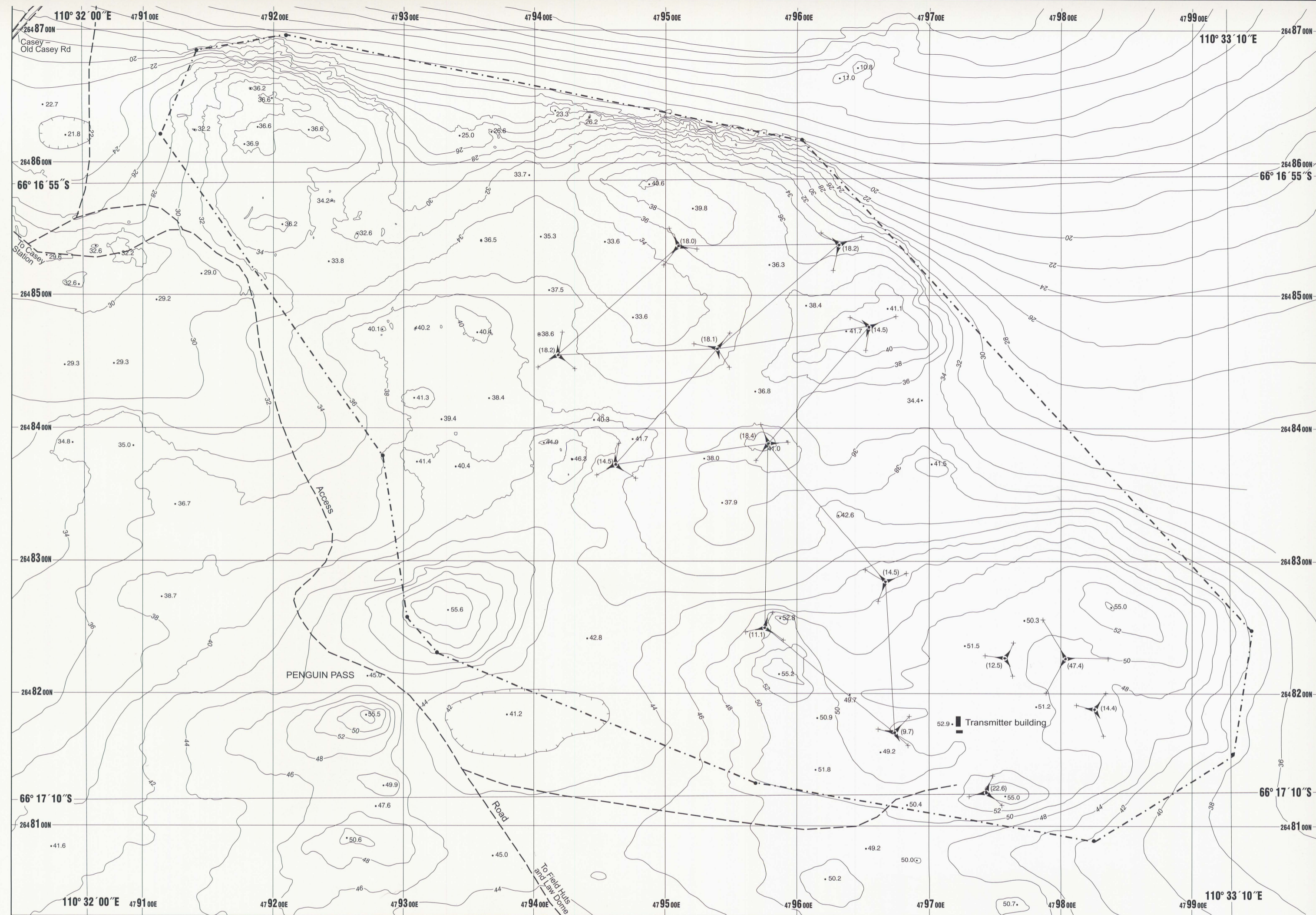
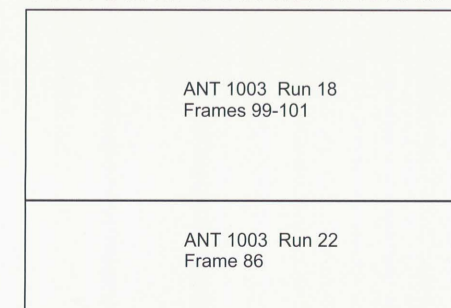


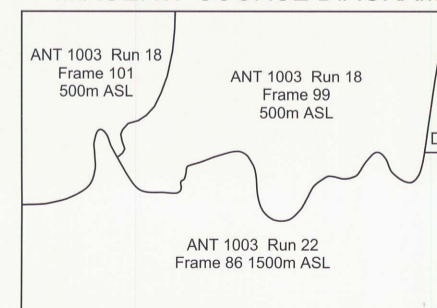
Figure 2

CONTOURS: SOURCE DIAGRAM

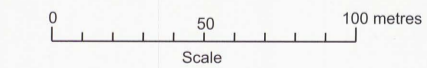


This diagram shows the film identifiers, run and frame numbers of the ANARE aerial photography from which lakes, rock edges and spot height elevations shown on this map have been derived.

IMAGERY: SOURCE DIAGRAM



This diagram shows the film identifiers, run and frame numbers of the ANARE aerial photography which constitute the imagery shown on this map. The image is a mosaic of three aerial photographs each of which has been scanned and digitally processed to form an orthophoto. The aerial photography was acquired from a Zeiss UMK 1318 metric camera. The film format is 120mm by 166mm.



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