Ministero dell'Università e della Ricerca Scientifica e Tecnologica
Programma Nazionale di Ricerche in Antartide

GIGAMAP
GERMAN-ITALIAN GEOLOGICAL ANTARCTIC MAP PROGRAM
PERTUSATI P.C. & TESSENSOHN F. Coord.

Museo Nazionale dell'Antartide
Sezione di Scienze della Terra - Siena (Italy)

ANTARCTIC GEOLOGICAL 1:250,000 MAP SERIES
RELIEF INLET QUADRANGLE
(VICTORIA LAND)

1999

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EXPLANATION

m — Scree, glacial debris and moraine (m). Quaternary.

TERRANES AND UNITS OF THE ROSS OROGEN

WILSON TERRANE

GRANITE HARBOUR IGNEOUS COMPLEX

b — GRANITE HARBOUR GRANODIORITE AND GRANITE (GHgr)
a - Syn- to post-kynematic biotite granite, granodiorite and tonalite intruded in the Wilson metamorphic complex before 480±20 Ma (cooling ages). Local name: Larsen Granodiorite. b - Post-kynematic, pink to reddish, K-feldspathic granite. Local name: Irizar Granite.

a — GRANITE HARBOUR GABBRO AND ULTRAMAFITE (GHgs)
Norite, gabbro, pyroxenite and serpentinite, affected by amphibolite facies re-equilibration followed by a greenschist facies overprint. In places, the severe deformation linked to the greenschist event causes a complete transformation in chlorite-actinolite schist. No radiometric age data is available.

SYMBOLS

Geological boundary.

Magmatic fluidality.

Felsic and mafic dyke swarm. A lot of dykes, both felsic and mafic in composition, belong to the Granite Harbour Igneous Complex, but several mafic dykes pertain to the McMurdo Igneous Complex.

Fault; tick (on the downthrown side) or arrows where the sense of motion is known.

A — Shot ACRUP 1993 - 1994

TECTONIC SKETCH MAP OF NORTHERN VICTORIA LAN

CENOZOIC MAGMATISM AT THE ROSS SEA MARGIN

b — McMurdo Igneous Complex: Meander Granite and Syenite (a); Malta, Hallett and Melbourne Volcanic Suites (b).

POST-ROSS MAGMATISM AND SEDIMENTATION

a — Kirkpatrick Basalt (a); Ferrar Dolerite and Beacon Supergroup (b)

Admiralty Igneous Complex

Thrusts

Faults

TERRANES AND UNITS OF THE ROSS OROGEN

a — Wilson Terrane: Wilson Metamorphic Complex (a); Granite Harbour Igneous Complex (b)

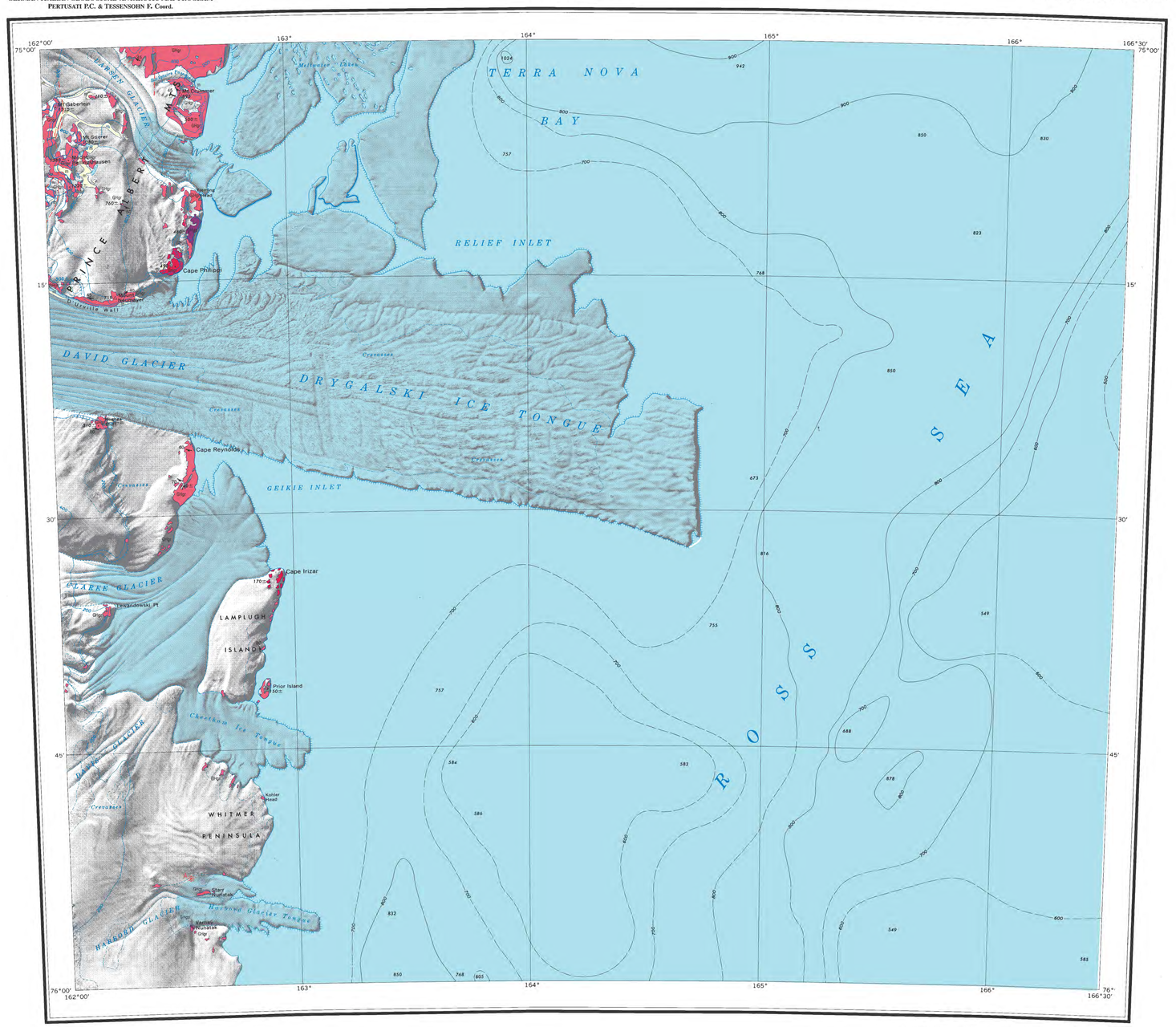
Dessent Ridge Unit in the Mountainoer Range and possible correlatives at the eastern margin of the Lanterman Range

Bowers Terrane

Millen Schist

Robertson Bay Terrane

RELIEF INLET


TERRA NOVA BAY
RELIEF INLET
PRINCE ALBERT MTS
DAVID GLACIER
DRYGALSKI ICE TONGUE
ROSS SEA
GEIKIE INLET
CLARKE GLACIER
LAMPLUGH ISLAND
WHITMER PENINSULA
HARBREN GLACIER
Cape Philippi
Cape Reynolds
Cape Irizar
Prior Island
Cape Hallett
Nunatak Group
Mt Gaberlein
Mt Glover
Mt Murphy
Mt Suess
Mt Larsen
Mt Bellingshausen
Mt Dessent
Mt Cloudmaker
Mt Neumayer
Mt Kirkpatrick
Mt Melbourne
Mt Backstairs
Mt Bowers
Mt Sabrina
Mt Abbott
Mt Rocchi
Mt Talbot
Mt Ricker
Mt Bowman
Mt Gerlache
Mt Lanterman
Mt Wilson
Mt Dwyer
Mt Kohler
Mt Star
Mt Chatfield
Mt Nunatak
Mt Longo
Mt Melbourne
Cape Adare
Cape Hallett
Cape Phillips
Cape Bernard
Cape Ryan
Cape Adams-Onslow
Cape Williams
Cape Wheeler
Cape Hickman
Cape Dalton
Cape Parry
Cape Jeffreys
Cape Hunter
Cape Lyon
Cape Bernacchi
Cape Washington
Cape Adamson
Cape Ross
Cape Bernard
Cape Ryan