

ANTARCTIC GEOLOGICAL 1:250,000 MAP SERIES MOUNT JOYCE QUADRANGLE (VICTORIA LAND) 1999

Authors: C. Baroni, G. Dellisio, G. Orsi

EXPLANATION

Soles, glacial colluvium and moraine (a), Quaternary; Ricker Hills tillite (b); Ferrar volcanic suite

POST-ROSS MAGMATISM AND SEDIMENTATION

Kirkpatrick Basalt (kb); Ferrar dolerite (fd); Beacon Supergroup

TERRANES OF THE ROSS OROGEN

Wilson Terrane; Granite Harbour Granodiorite and Granite (Ghgr); Admiralty Igneous Complex

WILSON TERRANE

Granite Harbour Granodiorite and Granite (Ghgr); Wilson Terrane

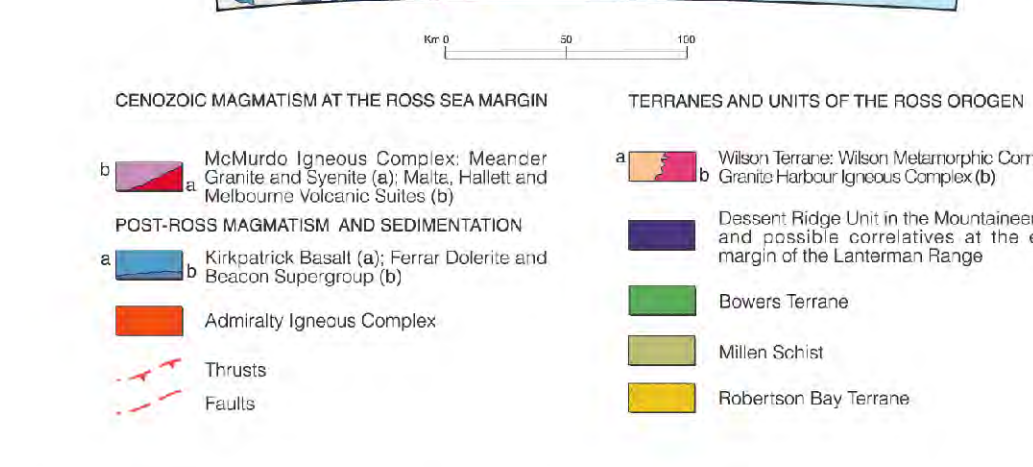
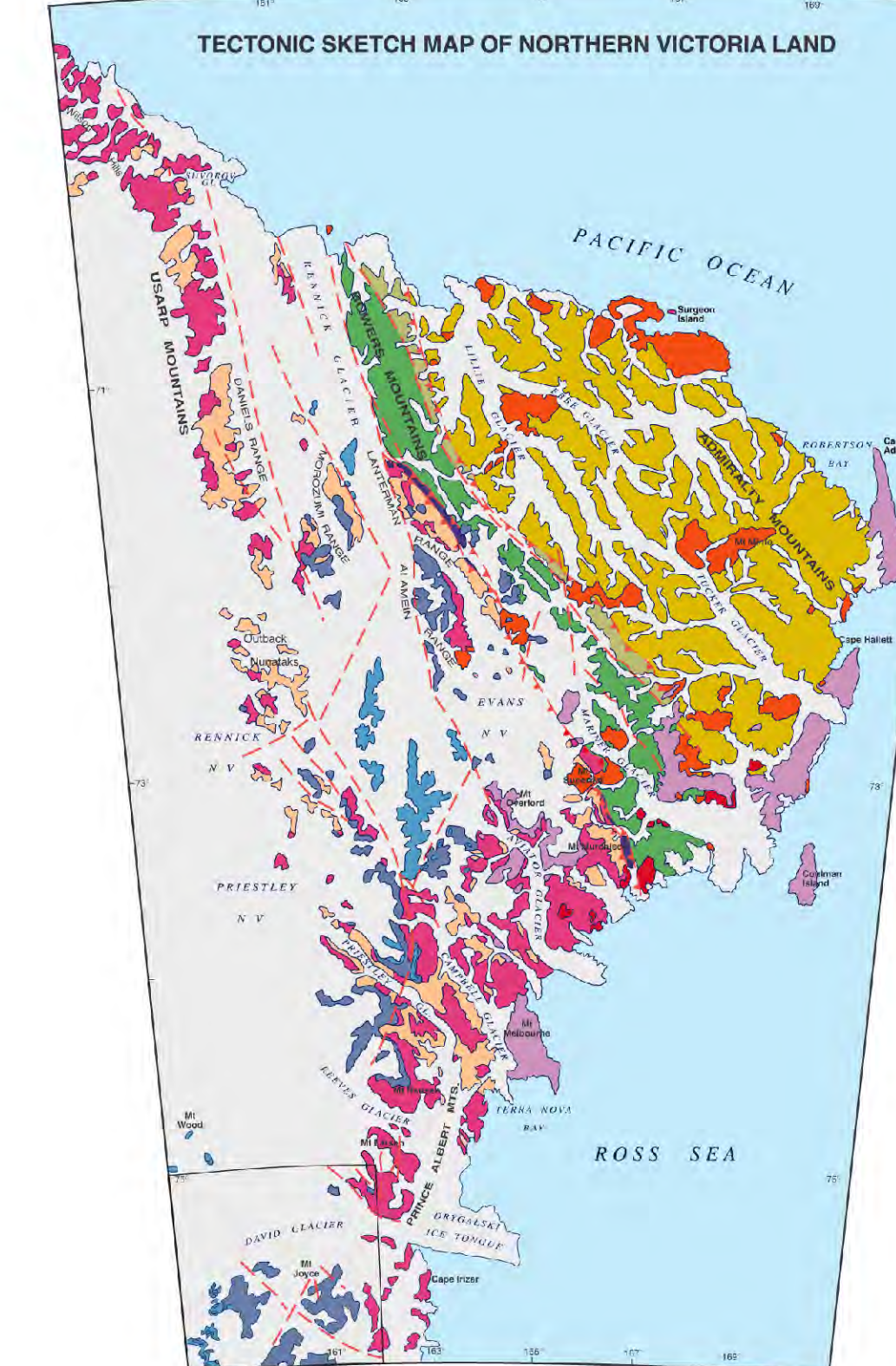
WILSON METAMORPHIC COMPLEX

Amphibolite facies metasediments (Am); Amphibolite facies metasediments (Am)

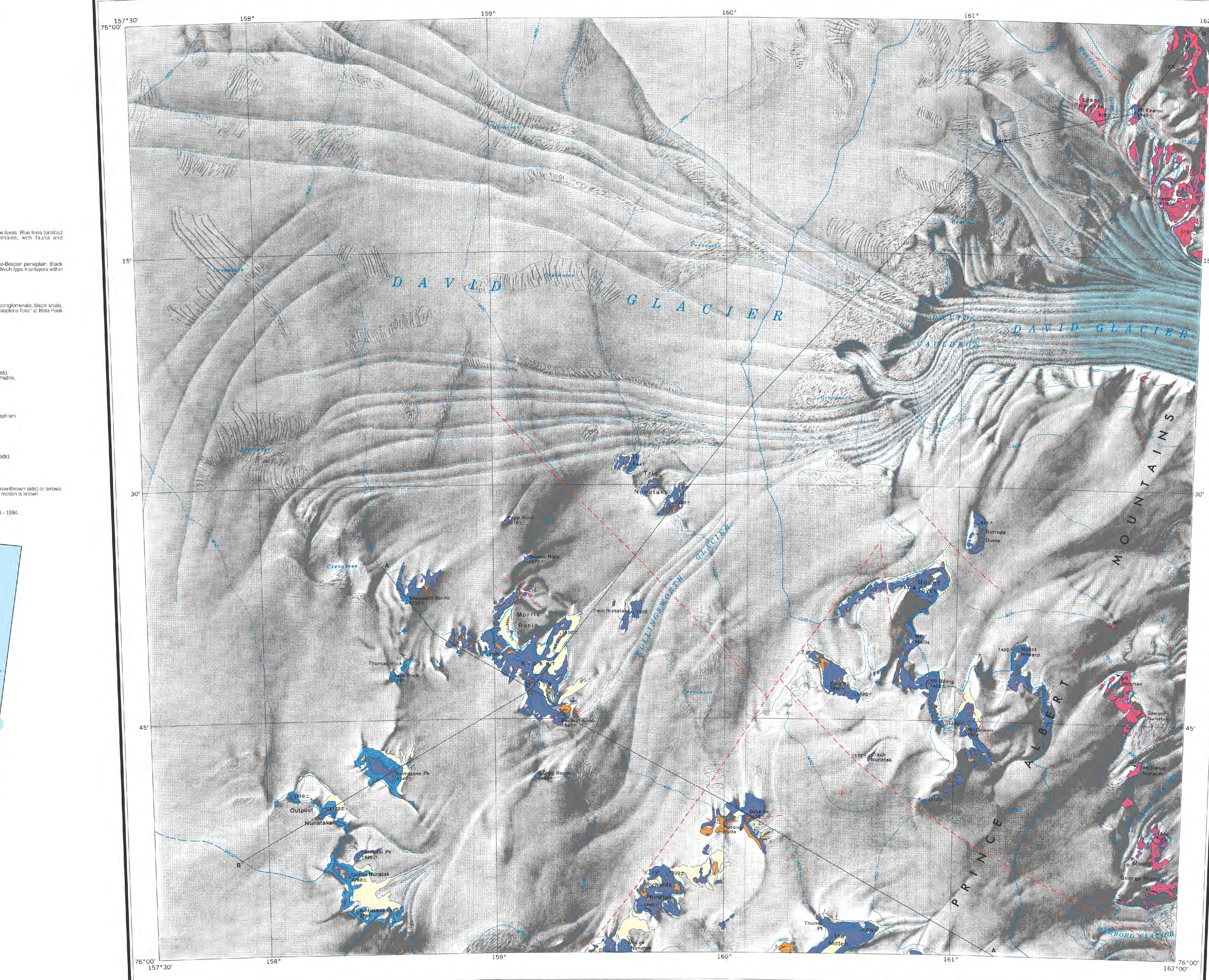
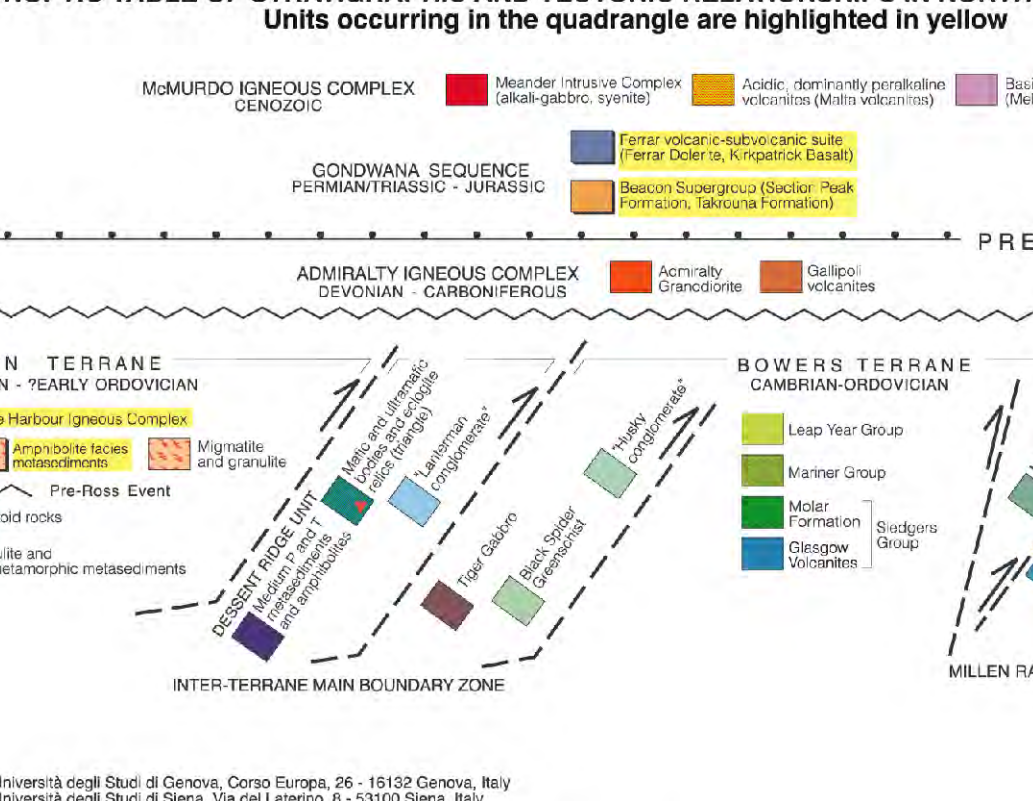
SYMBOLS

Geological boundary; Bedding; Fault; Fossiliferous (branchiopods); Fossiliferous (plants); Fault (on the downthrown side) or arrows where the sense of motion is known; Shale AGRUP 1993 - 1994

TECTONIC SKETCH MAP OF NORTHERN VICTORIA LAND

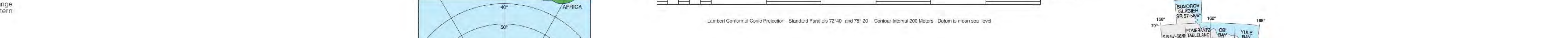


SYNOPTIC TABLE OF STRATIGRAPHIC AND TECTONIC RELATIONSHIPS IN NORTHERN VICTORIA LAND



SCALE 1:250,000; U.S. GEOLOGICAL SURVEY MAP ANTHROPOGENIC 1:250,000 RECONSTRUCTION SERIES

LOCATION DIAGRAM



INDEX TO ADJOINING SHEETS



TECTONICS

ROSS TECTONICS; In this quadrangle the effects of the Ross tectonic events are not evident, apart the occurrence itself of the Granite Harbour intrusive rocks which were interpreted as the magmatic signature of a Ross-age continental margin convergence.

ACKNOWLEDGMENTS

The authors are grateful to G. Brambilla for paleontological studies of Triassic flora, and to E. Bozzo and F. Ferracoli for their contribution on the tectonics.

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Granite Harbour Igneous Complex; Wilson Terrane; Beacon Supergroup

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PREVIOUS WORK; The region considered here was first visited during the Heroic Age of Antarctic exploration. The Magnetic Pole Party of the Shackleton Expedition (1907-1909) crossed the Transantarctic Mountains at the David Glacier.

SHORT DESCRIPTION OF GEOLOGY; The Mount Joyce quadrangle encompasses an early Palaeozoic igneous basement and a following cover spanning in age from Permian to Jurassic.

LITHOSTRATIGRAPHY; Wilson Terrane; Granite Harbour Igneous Complex; Beacon Supergroup

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