

A wide-angle photograph of an Antarctic landscape. In the foreground, two people in dark winter gear are walking away from the camera across a flat, snow-covered plain. The middle ground is dominated by a vast, undulating expanse of snow and ice, with some darker patches visible. In the background, a large, snow-covered mountain range stretches across the horizon under a clear, pale blue sky. The overall scene is desolate and expansive.

NEW ZEALAND ANTARCTIC
BIBLIOGRAPHY
2000-2005

2000 2005
NEW ZEALAND ANTARCTIC BIBLIOGRAPHY

New Zealand Antarctic Bibliography 2000-2005.
Compiled by Shulamit Gordon – Christchurch: Antarctica New Zealand, 2006.

ISBN 0-478-10968-7

Cover Image: Pressure Ridges near Mt Erebus
(Antarctica NZ Pictorial Collection: K242:05/06)

INTRODUCTION

The *New Zealand Antarctic Bibliography 2000-2005* comprises references to Antarctic publications by authors supported by Antarctica New Zealand (or its predecessors). The Bibliography includes reviewed and un-reviewed publications in journals and books, theses, internal University and Governmental reports, and workshop proceedings.

The references are arranged chronologically by first author. This document along with a searchable version is accessible from Antarctica New Zealand's web site www.antarcticanz.govt.nz.

Due to the involvement of many organisations and persons in the New Zealand programme, this Bibliography is not without omissions. It would be appreciated if any such omissions could be notified to:

Science Advisor
Antarctica New Zealand
Private Bag 4745
Christchurch

Phone: +64 3 358 0200
Fax: +64 3 358 0211
Email: info@antarcticanz.govt.nz



2000

2000

A

Ables, S.T. Fraser, B.J. Olson, J.V. Morris, R.J.
Conjugate ULF field line resonances at cusp latitudes.
Advances in space research 26(1): 125-130, 2000.

Abraham, E.R. Law, C.S. Boyd, P.W. Lavender, S.J. Maldonado, M.T. Bowie, A.R.
Importance of stirring in the development of an iron-fertilised phytoplankton bloom.
Nature 407: 727-730, 2000.

Aghib, F.S. Claps, M. Sarti, M.
Preliminary report on the main diagenetic features of the Oligocene strata from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 393-400, 2000.

Aislabie, J. Foght, J. Saul, D.
Aromatic hydrocarbon-degrading bacteria from soil near Scott Base, Antarctica.
Polar biology 23: 183-188, 2000.

Allan, V. Cadenhead, N. Tetley, G. (eds)
Proceedings of the Antarctic Tourism Workshop.
Christchurch: Antarctica New Zealand. 2000.
ISBN 0478109571

Askin, R.A. Raine, J.I.
Oligocene and Early Miocene terrestrial palynology of the Cape Roberts drillhole CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 493-501, 2000.

Atkins, C. Barrett, P.
Field report for 1997 on glacial deposits at Allan Hills, Antarctica.
Wellington, New Zealand: Victoria University of Wellington. 2000.
[Antarctic data series no. 22]

Axelsson, M. Davison, W. Franklin, C.E.
Cholinergic and adrenergic tone on the heart of the Antarctic dragonfish, *Gymnodraco acuticeps*, living at sub-zero temperatures.
Experimental biology online 5(3): 1-6, 2000.

B

Balks, E.R. Balks, M.R.
GPS surveying in Antarctica
Survey quarterly 24: 32-34, 2000.

Balks, M. Kimble, J. Paetzold, R. Aislabie, J. Campbell, I.
Effects of hydrocarbon contaminants on the temperature and moisture regimes of cryosols of the Ross Sea region, Antarctica.
in Contaminants in Freezing Ground. Collected proceedings of 2nd International Conference, 2-5 July, 2000, Cambridge University. 2000. pp.33-39.

Bannister, S. Sneider, R.K. Passier, M.L
Shear-wave velocities under the Transantarctic Mountains and Terror Rift from surface wave inversion.
Geophysical research letters 27(2): 281-284, 2000.

Barrett, P.J. Anderson, J
Grain size analysis of samples from CRP-2/2A, Victoria Land Basin, Antarctica (short note).
Terra Antartica 7(3): 373-378, 2000.

Bej, A.K. Saul, D. Aislabie, J.
Cold-tolerant alkane-degrading *Rhodococcus* species from Antarctica.
Polar biology 23: 100-105, 2000.

Bellanca, A. Neri, R. Sprovieri, M.
Bulk geochemistry of the sand fraction from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 553-560, 2000.

Blanchette, R.A. Held, B.W. Farrell, R.L. Duncan, S.
Wood deterioration in the historic huts of Antarctica.
Phytopathology 90(6): S7, 2000

Boyd, P.W. Watson, A. Law, C.S. Abraham, E. Trull, T. Murdoch, R. Bakker, D.C.E. Bowie, A.R. Charette, M. Croot, P. et al.
A mesoscale phytoplankton bloom in the polar Southern Ocean stimulated by iron fertilization.
Nature 407: 695-702, 2000.

Bradner, J.R. Sidhu, R.K. Yee, B. Skotnicki, M.L. Selkirk, P.M. Nevalainen, K.M.H.
A new *Embellisia* isolate associated with the Antarctic moss *Bryum argenteum*.
Polar biology 23: 730-732, 2000.

Brink, J.D. Jarrard, R.D.
Petrophysics of core plugs from CRP-2A drillhole, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 231-240, 2000.



Brink, J.D. Jarrard, R.D. Bucker, C. Wonik, T. Talarico, F.
Sedimentological interpretation of CRP-2/2A logs, Victoria Land Basin, Antarctica: glacial and sea-level significance.

Terra Antartica 7(3): 349-360, 2000.

Broadly, P.A. Lokhorst, G.M.

Coccolithus chlorolobata gen. et sp. nov. (*Gloeotilales*, *Chlorophyceae*) from La Gorce Mountains, Antarctica.

Algological studies 100: 1-9, 2000.

Bucker, C.J. Wonik, T. Jarrard, R.

The temperature and salinity profile in CRP-2/2A, Victoria Land Basin, Antarctica.

Terra Antartica 7(3): 255-259, 2000.

Bucker, C.J. Jarrard, R.D. Wonik, T. Brink, J.D.

Analysis of downhole logging data from CRP-2/2A, Victoria Land Basin, Antarctica: a multivariate statistical approach.

Terra Antartica 7(3): 299-310, 2000.

C

Campbell, I.B.

Properties of soils at Lake Hoare Nematode Experimental Site, Taylor Valley, Antarctica. Interim results from November/December field investigation. 2000.

[Land and Soil Survey Consultancy Services special report no. 1]

Campbell, I.B. Claridge, G.G.C.

Soil temperature, moisture and salinity patterns in Transantarctic Mountain cold desert ecosystems. *in* Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broadly P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.233-240.

ISBN 047306877X

Claps, M. Niessen, F. Florindo, F.

High-frequency analysis of physical properties from CRP-2/2A, Victoria Land Basin, Antarctica and implications for sedimentation rate.

Terra Antartica 7(3): 379-388, 2000.

Claridge, G.G.C. Campbell, I.B. Sheppard, D.S.

Carbon pools in Antarctica and their significance for global climate change.

in Global climate change and cold regions ecosystems. Lal R. Kimble J.M. Stewart B.A. (eds) Boca Raton, Florida: Lewis Publishers. 2000. pp.59-78.

[Advances in soil science series]

ISBN 1566704596

Cox, S. Parkinson, D.L. Allibone, A.H. Cooper, A.F.
Isotopic character of Cambro-Ordovician plutonism, southern Victoria Land, Antarctica.
New Zealand journal of geology and geophysics 43: 501-520, 2000.

D

Davey, F.J. Jarrard, R.D.
Geophysics and physical properties studies for CRP-2/2A; Introduction.
Antarctic science 7(3): 213-214, 2000.

Davey, F.J. Brancolini, G. Hamilton, R.J. Henrys, S.A. Sorlien, C.C. Bartek, L.R.
A revised correlation of the seismic stratigraphy at the Cape Roberts drill sites with the seismic stratigraphy of the Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 215-220, 2000.

Davison, W. Howard-Williams, C. Broady, P. (eds)
Antarctic Ecosystems: models for wider ecological understanding.
Christchurch, New Zealand: New Zealand Natural Sciences. 2000.
ISBN 047306877X

Davison, W.
Adaptive evolution.
in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.101-102.
ISBN 047306877X

Davison, W.
Human Impact.
in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.295-296.
ISBN 047306877X

Dietrich, H.G. Klosa, D. Wittich, C.
Carbonate contents in CRP-2/2A, Victoria Land Basin, Antarctica (short note).
Terra Antartica 7(3): 389-391, 2000.

Dingle, R.V.
Ostracoda from CRP-1 and CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 479-492, 2000.

Dixon, T.W. Squire, V.A.
Energy transport velocity of flexural waves in a random medium.
Waves in random media 10(1): 83-102, 2000.



2000

Downes, M.T. Howard-Williams, C. Hawes, I. Schwarz, A.-M.J.
Nitrogen dynamics in a tidal lagoon at Bratina Island, McMurdo Ice Shelf, Antarctica.
in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams
C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.19-25.
ISBN 047306877X

E

Ehrmann, W. Talarico, F.
Provenance and climate CRP-2/2A; Introduction.
Terra Antartica 7(4): 527-528, 2000.

Ehrmann, W.
Smectite content and crystallinity in sediments from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 575-580, 2000.

Evans, C.W. Hills, J.M. Dickson, J.M.J.
Heavy metal pollution in Antarctica: a molecular ecotoxicological approach to exposure
assessment.
Journal of fish biology 57A: 8-19, 2000.

F

Fielding, C.R. Naish, T.R. Woolfe, K.J. Lavelle, MA.
Facies analysis and sequence stratigraphy of CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 323-338, 2000.

Fioretti, A.M. Lanza, R.
Preliminary palaeomagnetic results from the Devonian-Carboniferous Admiralty Intrusives
(northern Victoria Land, Antarctica).
Terra Antartica 7(5): 657-664, 2000.

Fitzsimons, S.J. Lorrain, R.D. Vandergoes, M.J.
Behaviour of subglacial sediment and basal ice in a cold glacier.
in Deformation of glacial materials. Maltman A.J. Hubbard B. Hambrey M.J. (eds). London:
Geological Society. 2000. pp.181-190.
[Geological society special publication: 176]
ISBN 186239072X

Fraser, B.J. Russell, C.T. Means, J.D. Menk, F.W. Waters, C.L.
FedSat, an Australian research microsatellite.
Advances in space research 25: 1325, 2000.

G

Galeotti, S. Cita, M.B. Coccioni, R.
Foraminiferal biostratigraphy and palaeoecology from two intervals of the CRP-2/2A drillhole,
Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 473-478, 2000.

Gieseg, S.P. Cuddihy, S. Hill, J.V. Davison, W.
A comparison of plasma vitamin C and E levels in two Antarctic and two temperate water fish species.
Comparative biochemistry and physiology B 125: 371-378, 2000.

Gordon, S. (comp)
New Zealand Antarctic Bibliography 1956-1999.
Christchurch: Antarctica New Zealand. 2000.
ISBN 047810958X

Graham, I.J. Barry, B.J. Ditchburn, R.G. Whitehead, N.E.
Validation of cosmogenic nuclide production rate scaling factors through direct measurement.
Nuclear instruments and methods in physics research B 172: 802-805, 2000.

Green, T.G.A. Schroeter, B. Seppelt, D.
Effect of temperature, light and ambient UV on the photosynthesis of the moss *Bryum argenteum* Hedw. in continental Antarctica.
in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.165-170.
ISBN 047306877X

Green, T.G.A. Maseyk, K. Pannowitz, S. Seppelt, R.D. Schroeter, B.
Extreme elevated in situ carbon dioxide levels around the moss *Bryum subrotundifolium* JAEG., BER. S. GALL. in Antarctica.
Bibliotheca lichenologica 75: 389-396, 2000.

Greenfield, L.G.
Some properties of water soluble substances from Antarctic and Arctic mosses and lichens.
Bibliotheca lichenologica 72: 71-78, 2000.

H

Hall, B.L. Denton, G.H. Hendy, C.H.
Evidence from Taylor Valley for a Grounded Ice Sheet in the Ross Sea, Antarctica.
Geografiska annaler 82A(2-3): 275-304, 2000.

Hambrey, M.J. van der Meer, J.J.M.
Sedimentary environments for CRP-2/2A; Introduction.
Terra Antartica 7(3): 311-312, 2000.

Hannah, M.J. Wilson, G.H. Wrenn, J.H.
Oligocene and Miocene marine palynomorphs from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 503-511, 2000.



2000

Harcourt, R.G. Hindell, M.A. Bell, D.G. Waas, J.R.
Three-dimensional dive profiles of free-ranging Weddell seals.
Polar biology 23: 479-487, 2000.

Hawes, I. Schwarz, A-M.
Absorption and utilization of low irradiance by cyanobacterial mats in two ice-covered Antarctic lakes.
Journal of phycology 37(1): 5-15, 2000.

Hendy, C.H.
The role of polar lake ice as a filter for glacial lacustrine sediments.
Geografiska annaler 82A(2-3): 271-274, 2000.

Hendy, C.H. Sadler, A.J. Denton, G.H. Hall, B.L.
Proglacial lake-ice conveyors: a new mechanism for deposition of drift in polar environments.
Geografiska annaler 82A(2-3): 249-270, 2000.

Hendy, C.H.
Late quaternary lakes in the McMurdo Sound region of Antarctica.
Geografiska annaler 82A(2-3): 411-432, 2000.

Henrys, S.A. Bücker, C.J. Bartek, L.R. Bannister, S. Niessen, F. Wonik, T.
Correlation of seismic reflectors with CRP 2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 221-230, 2000.

Higgins, S.M. Hendy, C.H. Denton, G.H.
Geochronology of Bonney Drift, Taylor Valley, Antarctica; evidence of interglacial expansion of Taylor Glacier.
Geografiska annaler 82A: 391-410, 2000.

Higgins, S.M. Denton, G.H. Hendy, C.H.
Glacial geomorphology of Bonney Drift, Taylor Valley, Antarctica.
Geografiska annaler 82A: 365-390, 2000.

Hitzfeld, B. Lampert, C.S. Spaeth, N. Mountfort, D.O. Kaspar, H. Dietrich, D.R.
Toxin production in cyanobacterial mats from ponds on the McMurdo Ice Shelf.
Toxicon 38(12): 1731-1748, 2000.

Hunger, S.A.
A study on molecular systematics of the Antarctic Bryum species and the development of microsatellite DNA markers in Bryum argenteum Hedw.
M.Sc., University of Waikato, 2000.

Hunter, F.M. Harcourt, R. Wright, M. Davis, L.S.
Strategic allocation of ejaculates by male Adélie penguins.
Proceedings of the Royal Society of London B(267): 1541-1545, 2000.

J

Jarrard, R.D. Brink, J.D. Bücker, C. Wonik, T. Wilson, T. Paulsen, T.
Bedding dips in CRP-2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 261-270, 2000.

H

Kettler, R.M. Papastavros, E.
Preliminary results of bitumen and whole-rock elemental analyses of CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 361-367, 2000.

Krissek, L.A. Kyle, P.R.
Geochemical indicators of weathering, Cenozoic palaeoclimates, and provenance from fine-grained sediments in CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 589-597, 2000.

L

Lavelle, M.
Strontium isotope stratigraphy and age model for CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 611-619, 2000.

Lieberman, R.S. Smith, A.K. Franke, S.J. Vincent, R.A. Isler, J.A. Manson, A.H. Meed, C.E. Fraser, G.J. Fahrutdinova, A.H. Thayaparan, T. et al.
Comparison of mesospheric and lower thermospheric residual wind with High Resolution Doppler Imager, medium frequency, and meteor radar winds.
Journal of geophysical research 105D: 27023-27035, 2000.

m

Macdonald, J.A.
Neuromuscular temperature compensation in fish: a comparative study.
in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.134-141. ISBN 047306877X

Marshall, C. Crossman, D. Love, C. McInnes, S. Flemming, R.
Structural studies of cold-adaptation: lactate dehydrogenases from notothenioid fish.
in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.123-133. ISBN 047306877X

McClintock, M.K. White, J.D.L.
Phreatomagmatism at Coombs Hills, Antarctica: large-scale laterally quarrying eruptions as a precursor to flood basalt volcanism.
Terra nostra 6: 336-341, 2000.



McIntosh, W.C.

⁴⁰Ar/³⁹Ar geochronology of tephra and volcanic clasts in CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 621-630, 2000.

McMinn, A. Ashworth, C. Ryan, K.G.

In situ net primary productivity of an Antarctic fast ice bottom algal community.
Marine ecology progress series 21: 177-185, 2000.

Mellish, S.D.

Panorama Geology, Antarctica. A study of the mafic, undersaturated and granitic alkaline Ross Orogeny magmatism from Panorama Ridge, southern Victoria Land, Antarctica.
M.Sc., University of Otago, 2000.

Metcalfe, V. Brennan, S. George, P.

The infamous Antarctic toothfish (*Dissostichus mawsoni*): a journey from the laboratory to the ice.
New Zealand bioscience February: 6-10, 2000.

Meyer-Rochow, V.B.

Risks, especially for the eye, emanating from the rise of solar UV-radiation in the Arctic and Antarctic regions.
International journal of circumpolar health 59: 38-51, 2000.

Millar, C. Lambert, D.

Oh brother!
New Scientist 19 February: 30-33, 2000.

Montgomery, J.C.

Adaptive evolution of Antarctic fishes.
in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.103-108.
ISBN 047306877X

Montgomery, J.C. Clements, K.

Disaptation and recovery in the evolution of Antarctic fish.
Trends in ecology and evolution 15(7): 267-271, 2000.

Moos, D. Jarrard, R.D. Paulsen, T.S. Scholz, E. Wilson, T.J.

Acoustic borehole televiwer results from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 279-286, 2000.

Mukasa, S.B. Dalziel, I.W.D.

Marie Byrd Land, West Antarctica: evolution of Gondwana's Pacific margin constrained by zircon U-Pb geochronology and feldspar common Pb compositions.

Geological Society of America bulletin 112(4): 611-627, 2000.

N

Neudegg, D.A. Fraser, B.J. Menk, F.W. Waters, C.L. Burns, G.B. Morris, R.J.

ULF wave attenuation in the high latitude ionospheric waveguide.

Advances in space research 25(7-8): 1559-1565, 2000.

Neumann, M. Ehrmann, W.

Mineralogy of sediments from CRP-2/2A, Victoria Land Basin, Antarctica as revealed by X-ray diffraction.

Terra Antartica 7(4): 561-566, 2000.

Niessen, F. Kopsch, C. Polozek, K.

Velocity and porosity from CRP-2/2A core logs, Victoria Land Basin, Antarctica.

Terra Antartica 7(3): 241-253, 2000.

P

Paulsen, T.S. Wilson, T.J. Moos, D. Jarrard, R.D. Wilson, G.S.

Orientation of CRP-2A core, Victoria Land Basin, Antarctica.

Terra Antartica 7(3): 271-278, 2000.

Polozek, K.

Distribution of heavy minerals in CRP-2/2A, Victoria Land Basin, Antarctica.

Terra Antartica 7(4): 567-573, 2000.

Powell, M.D. Forster, M.E. Davison, W.

In vitro carbon dioxide excretion from erythrocytes of two species of Antarctic fishes and its inhibition by catecholamines.

Journal of fish biology 57(supplement A): 112-120, 2000.

Powell, R.D. Krissek, L.A. van der Meer, J.J.M.

Preliminary depositional environmental analysis of CRP-2/2A, Victoria Land Basin, Antarctica: palaeoglaciological and palaeoclimatic inferences.

Terra Antartica 7(3): 313-322, 2000.

R

Rae, R. Howard-Williams, C. Hawes, I. Vincent, W.F.

Temperature dependence of photosynthetic recovery from solar damage in Antarctic phytoplankton.

in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.182-189. ISBN 047306877X



Raine, J.I. Watkins, D.K.
Palaeontological studies for CRP-2/2A; Introduction.
Terra Antartica 7(4): 413-415, 2000.

Redvers, G.
Dispersion and fate of sewage and wastewater components from Scott Base, Antarctica.
M.Sc., University of Auckland, 2000.

Ritchie, P.A. Lambert, D.M.
A repeat complex in the mitochondrial control region of Adélie penguins from Antarctica.
Genome 43: 1-6, 2000.

Roberts, A.P. Barrett, P.J.
Chronology and chronostratigraphy CRP-2/2A; Introduction.
Terra Antartica 7(4): 609-610, 2000.

Scherer, R.P. Bohaty, S.M. Harwood, D.M.
Oligocene and Lower Miocene siliceous microfossil biostratigraphy of Cape Roberts Project Core CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 417-442, 2000.

Schroeter, B. Schlenzog, M. Green, T.G.A. (eds)
New Aspects in Cryptogamic Research: Contributions in Honour of Ludger Kappen.
Berlin, Stuttgart: Bibliotheca Lichenologica. 2000.
[Band 75]
ISBN 3-443-58054-8

Setti, M. Marinoni, L. López -Galindo, A. Delgado-Huertas, A.
Compositional and morphological features of the smectites of the sediments of CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 581-587, 2000.

Sheppard, D.S. Claridge, G.G.C. Campbell, I.B.
Metal contamination of soils at Scott Base, Antarctica.
Applied geochemistry 15: 513-530, 2000.

Sinclair, B.J.
Antarctica-realm of the springtail.
New Zealand alpine journal 113-114, 2000.

Sinclair, B.J.

The ecology and physiology of New Zealand Alpine and Antarctic arthropods.

Ph.D., University of Otago, 2000.

Sjöling, S. Cowan, D.A.

Detecting human bacterial contamination in Antarctic soils.

Polar biology 23: 644-650, 2000.

Skotnicki, P. Selkirk, M. Ninham, J.A.

Genetic diversity, colonisation and dispersal of mosses in the Ross Sea region of Antarctica.

in Antarctic Ecosystems: models for wider ecological understanding. Davison W. Howard-Williams

C. Broady P. (eds) Christchurch, New Zealand: New Zealand Natural Sciences. 2000. pp.26-31.

ISBN 047306877X

Skotnicki, M.L. Ninham, J.A. Selkirk, P.M.

Genetic diversity, mutagenesis and dispersal of Antarctic mosses - a review of progress with molecular studies.

Antarctic science 12: 363-373, 2000.

Smellie, J.L.

Erosional history of the Transantarctic Mountains deduced from sand grain detrital modes in CRP-2/2A, Victoria Land Basin, Antarctica.

Terra Antarctica 7(4): 545-552, 2000.

Smith, P. McVeagh, M.

Allozyme and microsatellite DNA markers of toothfish population structure in the Southern Ocean.

Journal of fish biology 57A: 72-83, 2000.

Solomon, P.M. Barrett, J. Connor, B.J. Zoonematkermani, S. Parrish, A. Lee, A. Pyle, J.

Chipperfield, M.

Seasonal observations of chlorine monoxide in the stratosphere over Antarctica during the 1996-1998 ozone holes and comparison with the SLIMCAT three-dimensional model.

Journal of geophysical research 105(D23): 28979-29001, 2000.

Squire, V.A. Dixon, T.W.

An analytic model for wave propagation across a crack in an ice sheet.

in Proceedings of the 10th International Offshore and Polar Engineering Conference. Golden, CO:

International Society of Offshore and Polar Engineers. 2000. pp.652-655.

Squire, V.A. Dixon, T.W.

An analytic model for wave propagation across a crack in an ice sheet.

International journal of offshore and polar engineering 10(3): 173-176, 2000.



Squire, V.A. Dixon, T.W.
Scattering of flexural waves from a coated cylindrical anomaly in a thin plate.
Journal of sound and vibration 236(2): 367-373, 2000.

Steel, G.D.
Polar bonds: the environmental relationship in polar regions.
Environment and behavior 32(6): 796-816, 2000.

Strong, C.P. Webb, P.N.
Oligocene and Miocene foraminifera from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 461-472, 2000.

Suedfeld, P. Steel, G.D.
The environmental psychology of capsule habitats.
Annual review of psychology 51: 227-253, 2000.

T

Talarico, F. Sandroni, S. Fielding, C. Atkins, C.
Variability, petrography and provenance of basement clasts in core from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 529-544, 2000.

Taviani, M. Beu, A.G. Jonkers, H.A.
Macrofossils from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 513-526, 2000.

Trodahl, H.J. McGuinness, M.J. Langhorne, P.J. Collins, K. Pantoja, A.E. Smith, I.J. Haskell, T.G.
Heat transport in McMurdo Sound first year fast ice.
Journal of geophysical research 105(C5): 11,347-11,358, 2000.

V

van der Meer, J.J.M.
Microscopic observations of the first 300 metres of CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 339-348, 2000.

Verosub, K.L. Florindo, F. Sagnotti, L. Roberts, A.P. Wilson, G.S.
Environmental magnetism of Oligocene - Miocene glaciomarine strata from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 599-608, 2000.

Vincent, W.F. Gibson, J.A. Pienitz, R. Villeneuve, V. Broady, P. Hamilton, P.B. Howard-Williams, C.
Ice shelf microbial ecosystems in the High Arctic and implications for life on Snowball Earth.
Naturwissenschaften 87: 137-141, 2000.

Vincent, W.F. Howard-Williams, C.
Life on Snowball Earth.
Science 187: 2421, 2000.

von Biel, H.A.
The interpretation of Antarctic mesospheric partial reflection data.
in CRL Alaska Project, Joint Upper Atmosphere Working Groups Meeting, March 7-8, 2000. Tokyo: Communications Research Laboratory. 2000. pp.249-256.

W

Watkins, D.K. Villa, G.
Palaeogene calcareous nannofossils from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 443-452, 2000.

Watson, A.J. Bakker, D.C.E. Ridgewell, A.J. Boyd, P.W. Law, C.S.
Effect of iron supply on Southern Ocean CO₂ uptake and implications for glacial CO₂.
Nature 407: 730-733, 2000.

Webb, P.N. Strong, C.P.
Pliocene benthic foraminifera from CRP-2/2A (lithostratigraphic unit 2.2), Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 453-459, 2000.

Weiss, K. Suedfeld, P. Steel, G.D. Tanaka, M.
Psychological adjustments during three Japanese Antarctic research expeditions.
Environment and behavior 32: 142-156, 2000.

Wharton, D.A. Judge, K.F. Worland, M.R.
Cold acclimation and cryoprotectants in a freeze-tolerant Antarctic nematode, *Panagrolaimus davidi*.
Journal of comparative physiology B 170(4): 321-327, 2000.

Whitehead, J.M. McKelvey, B.C. McMinn, A.
Cenozoic glacial deposits in the Southern Prince Charles Mountains of East Antarctica (short note).
Terra Antartica 7(5): 655-656, 2000.

Wilson, T.J. Paulsen, T.S.
Brittle deformation patterns of CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(3): 287-298, 2000.

Wilson, G.S. Florindo, F. Sagnotti, L. Verosub, K.L. Roberts, A.P.
Magnetostratigraphy of Oligocene - Miocene glaciomarine strata from CRP-2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 7(4): 631-646, 2000.



2000

Wilson, G.S. Bohaty, S.M. Fielding, C.R. Florindo, F. Hannah, M.J. Harwood, D.M. McIntosh, W.C. Naish, T.R. Roberts, A.P. Sagnotti, L. et al.

Chronostratigraphy of CRP-2/2A, Victoria Land Basin, Antarctica.

Terra Antartica 7(4): 647-654, 2000.

Wilson, G.S.

Glacial geology and origin of fossiliferous-erratic-bearing moraines, Southern McMurdo Sound, Antarctica: an alternative ice sheet hypothesis.

in Paleobiology and paleoenvironments of Eocene rocks, McMurdo Sound, East Antarctica. Stilwell J.D. Feldmann R.M. (eds). Washington: American Geophysical Union. 2000. pp.19-37.

[Antarctic research series: 76]

ISBN 0875909477

Wood, S.W. Jones, N.B. Connor, B.J. Kreher, K. Keys, J.G. Matthews, W.A. Stephen, T.M. Goldman, A. Murcray, F.J. Rinsland, C.P. et al.

Chlorine partitioning in the high latitude stratosphere from ground based spectroscopic measurements at Arrival Heights, Antarctica.

in Quadrennial Ozone Symposium. Bojkov R.D. Shibasaki K. (eds). Tokyo: EORC/NASDA. 2000. pp.821-822.

Woolfe, K.J. Stewart, L.K. Fielding, C.R. Lavelle, M.

Laser-derived, particle size data from CRP-2/2A: implications for sequence and seismic stratigraphy.

Terra Antartica 7(3): 369-372, 2000.

2001

A

Ables, S.T. Fraser, B.J. Menk, F.W. Neudegg, R.J. Ruiyuan, L.
Outer magnetosphere topology and Pc5 ULF waves at high latitudes.
ANARE reports 146: 355-368, 2001.

Aislabie, J. Fraser, R. Duncan, S. Farrell, R.L.
Effects of oil spills on microbial heterotrophs in Antarctic soils.
Polar biology 24: 308-313, 2001.

Aislabie, J.
Oil in Antarctic soils.
Soil horizons 6: 11, 2001.

Armienti, P. Tamponi, M. Pompilio, M.
Sand provenance from major and trace element analyses of bulk rock and sand grains from CRP2/2A, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 569-582, 2001.

Atkins, C.B.
Glacial influence from clast features in Oligocene and Miocene strata cored in CRP-2/2A and CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 263-274, 2001.

B

Ballard, G. Ainley, D.G. Ribic, C.A. Barton, K.J.
Effect of instrument attachment on foraging trip duration and nesting success of Adélie penguins.
Condor 103: 481-490, 2001.

Barrett, P.J.
Climate change - an Antarctic perspective.
New Zealand science review 58(1): 18-23, 2001.

Barrett, P.J. van der Meer, J.J.M. Laird, M.G.
Sedimentary environments for CRP-3; Introduction.
Terra Antartica 8(3): 205-206, 2001.

Barrett, P.J.
Grain-size analysis of samples from Cape Roberts Core CRP-3, Victoria Land Basin, Antarctica, with inferences about depositional setting and environment.
Terra Antartica 8(3): 245-254, 2001.



Barrett, P.J. Thomson, M.R.A. Verosub, K.L.
Chronology and chronostratigraphy for CRP-3; Introduction.
Terra Antartica 8(4): 583, 2001.

Bodeker, G.E. Connor, B.J. Liley, J.B. Matthews, W.A.
The global mass of ozone: 1978-1998.
Geophysical research letters 28(14): 2819-2822, 2001.

Bond, P.E.
Optical propagation through sea-ice.
Ph.D., University of Otago, 2001.

Bowie, A. Maldonado, M.T. Frew, R. Croot, P. Achterberg, E.P. Worsfold, P.J. Law, C.S. Boyd, P.W.
The fate of added iron during a fertilisation experiment in the Southern Ocean.
Deep-sea research II 48(11-12): 2703-2743, 2001.

Boyd, P.W. Abraham, E.R.
Iron mediated changes in the phytoplankton photosynthetic competence during SOIREE.
Deep-sea research II 48(11-12): 2529-2550, 2001.

Boyd, P.W. Law, C.S.
The Southern Ocean Iron Release Experiment (SOIREE) - introduction and summary.
Deep-sea research II 48(11-12): 2425-2438, 2001.

Bücker, C.J. Jarrard, R.D. Wonik, T.
Downhole temperature, radiogenic heat production, and heat flow from the CRP-3 drillhole,
Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 151-159, 2001.

Bücker, C.J. Jarrard, R.D. Niessen, F. Wonik, T.
Statistical analysis of wireline logging data of the CRP-3 drillhole (Victoria Land Basin, Antarctica).
Terra Antartica 8(4): 491-505, 2001.

Butler, E.R.T.
Beaches in McMurdo Sound, Antarctica.
Ph.D., Victoria University of Wellington, 2001.

Campbell, I. Balks, M.
The state of the Ross Sea region terrestrial environment: Soils and ice-free areas.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.
Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.4.16-4.33.
ISBN 047810961X

Cantrill, D.J.

Early Oligocene *Nothofagus* from CRP-3, Antarctica: implications for the vegetation history.
Terra Antartica 8(4): 401-406, 2001.

Carton, G.

Responses of anterior lateral line afferent neurones to water flow and odour-conditioned rheotaxis in Anguilla spp.
Ph.D., University of Auckland, 2001.

Clarkson, T. Wood, S.

The state of the Ross Sea region atmosphere: Atmosphere.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.
Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.6.2-6.13.
ISBN 047810961X

Cook, Y. Craw, D.

Amalgamation of disparate crustal fragments in the Walcott Bay-Foster Glacier area, south Victoria Land, Antarctica.
New Zealand journal of geology and geophysics 44: 403-416, 2001.

Cox, S.L. Macdonald, J.A.

Temperature compensation of postsynaptic currents from the extraocular muscle of temperate teleost fishes.
Journal of comparative physiology A 187(3): 197-203, 2001.

D

Davey, F.J. Bucker, C.J.

Geophysics and tectonic studies for CRP-3; Introduction.
Terra Antartica 8(3): 125-126, 2001.

Davison, W.

Respiration of the emerald rockcod, a notothenioid fish from Antarctica.
New Zealand natural sciences 26: 13-20, 2001.

De Santis, L. Davey, F. Prato, S. Brancolini, G.

Subsidence at the Cape Roberts Project (CRP) drillsites from backstripping techniques, Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 137-141, 2001.

Dietrich, H.G. Klosa, D. Wittich, C.

Carbon content in CRP-3 drillcore, Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 299-302, 2001.



Dingle, R.V. Majoran, S.
Palaeo-climatic and -biogeographical implications of Oligocene ostracoda from CRP-2/2A and CRP-3 drillholes, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 369-382, 2001.

Dixon, T.W. Squire, V.A.
Energy transport in the marginal ice zone.
Journal of geophysical research 106(C9): 19917-19929, 2001.

Dixon, T.W. Squire, V.A.
On modelling an iceberg embedded in shore fast sea ice.
Journal of engineering mathematics 40(3): 211-236, 2001.

E

Eggington, S. Forster, M.E. Davison, W.
Control of vascular tone in notothenioid fishes is determined by phylogeny, not environmental temperature.
American journal of physiology 280: R1197-R1205, 2001.

Ehrmann, W.
Variations in smectite content and crystallinity in sediments from CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 533-542, 2001.

Elliot, D.H. Hanson, R.E.
Origin of widespread, exceptionally thick basaltic phreatomagmatic tuff breccia in the Middle Jurassic Prebble and Mawson Formations, Antarctica.
Journal of volcanology and geothermal research 111(1-4): 183-201, 2001.

F

Fernandez-Valiente, E. Quesada, A. Howard-Williams, C. Hawes, I.
N₂-fixation in cyanobacterial mats from ponds on the McMurdo Ice Shelf, Antarctica.
Microbial ecology 42(3): 338-349, 2001.

Fielding, C.R. Naish, T.R. Woolfe, K.J.
Facies architecture of the CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 217-224, 2001.

Fielding, C.R. Dunbar, G.B. Bryce, S.M.
Laser-derived particle size data from CRP-3, Victoria Land Basin, Antarctica: implications for sequence and seismic activity.
Terra Antartica 8(3): 255-262, 2001.

Fisher, G.

The state of the Ross Sea region atmosphere: Air.

in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.

Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.6.14-6.26.

ISBN 047810961X

Fitzgerald, P.G.

Apatite fission track ages associated with the altered igneous intrusive in Beacon Sandstone near the base of CRP-3, Victoria Land Basin, Antarctica.

Terra Antartica 8(4): 585-591, 2001.

Fitzsimons, S.J. McManus, K.J. Sirota, P. Lorrain, R.

Direct shear tests of materials from a cold glacier: implications for landform development.

Quaternary international 86(1): 129-137, 2001.

Fitzsimons, S.

The state of the Ross Sea region terrestrial environment: Glaciers.

in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.

Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.4.2-4.14.

ISBN 047810961X

Florindo, F. Wilson, G.S. Roberts, A.P. Sagnotti, L. Verosub, K.L.

Magnetostratigraphy of Late Eocene - Early Oligocene strata from the CRP-3 core, Victoria Land Basin, Antarctica.

Terra Antartica 8(4): 599-613, 2001.

Franklin, C.E. Axelsson, M. Davison, W.

Constancy and control of heart rate during an increase in temperature in the Antarctic fish

Pagothenia borchgrevinki.

Experimental biology online 6(1): 1-7, 2001.

Fraser, B.J. Russell, C.T. Means, J.D. Menk, F.W. Waters, C.L.

The FedSat NEWMAG magnetic field experiment.

ANARE reports 146: 405-420, 2001.

Frew, R. Bowie, A. Croot, P. Pickmere, S.

Macronutrient and trace-metal geochemistry of an in situ iron-induced Southern Ocean bloom.

Deep-sea research II 48(11-12): 2467-2481, 2001.

G

Galeotti, S. Coccioni, R.

Morphometric analysis of selected benthic foraminifera from Cape Roberts Project (CRP) and CIROS-1 cores, Victoria Land Basin, Antarctica.

Terra Antartica 8(4): 359-368, 2001.



Gall, M.P. Boyd, P.W. Hall, J. Safi, K.A. Chang, H.
Phytoplankton processes. Part 1: community structure during the Southern Ocean Iron Release Experiment (SOIREE).
Deep-sea research II 48(11-12): 2551-2570, 2001.

Gall, M.P. Strzepek, R. Maldonado, M. Boyd, P.W.
Phytoplankton processes. Part 2: rates of primary production and factors controlling algal growth during the Southern Ocean Iron Release Experiment (SOIREE).
Deep-sea research II 48(11-12): 2571-2590, 2001.

Given, D. Bassett, J.
Key pressures on the Ross Sea region environment: Tourism.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica. Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.3.24-3.37.
ISBN 047810961X

Gore, D. Rhodes, E. Augustinus, P.C. Leishman, M. Colhoun, E.A.
Bunger Hills, Antarctica - partly ice free at Last Glacial Maximum.
Geology 29: 1103-1106, 2001.

Green, T.G.A Broady, P.A.
Biological soil crusts of Antarctica.
in Biological soil crusts: structure, function, and management. Belnap J. Lange O.L. (eds). Berlin, New York: Springer-Verlag. 2001. pp.133-139.
[Ecological Studies, Volume 150]
ISBN 3540410759

Green, T.G.A.
The state of the Ross Sea region terrestrial environment: Terrestrial biota.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica. Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.4.36-4.54.
ISBN 047810961X

H

Hall, J. Safi, K.A.
The impact of in situ Fe fertilisation on the microbial food web in the Southern Ocean.
Deep-sea research II 48(11-12): 2591-2613, 2001.

Hall, K. Arocena, J. Smellie, J.
Weathering rinds and palaeoenvironmental indicators: evidence from the Cape Roberts drill core (CRP-3), Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 275-280, 2001.

Hannah, M.J. Wrenn, J.H. Wilson, G.J.

Preliminary report on Early Oligocene and ?Latest Eocene marine palynomorphs from CRP-3 drillhole, Victoria Land Basin, Antarctica.

Terra Antartica 8(4): 383-388, 2001.

Hannah, M.J. Florindo, F. Harwood, D.M. Fielding, C.R. Cape Roberts Team, Chronostratigraphy of the CRP-3 drillhole, Victoria Land Basin, Antarctica.

Terra Antartica 8(4): 615-620, 2001.

Hannon, E. Boyd, P.W. Silviso, M. Lancelot, C.

Modelling the bloom evolution and carbon flows during SOIREE: implications for future in situ iron-enrichments in the Southern Ocean.

Deep-sea research II 48(11-12): 2745-2773, 2001.

Harris, C.

Key pressures on the Ross Sea region environment: Science.

in *Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.*

Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.3.2-3.23.

ISBN 047810961X

Harwood, D.M. Bohaty, S.M.

Early Oligocene siliceous microfossil biostratigraphy of Cape Roberts Project core CRP-3, Victoria Land Basin, Antarctica.

Terra Antartica 8(4): 315-338, 2001.

Hawes, I. Moorhead, D. Sutherland, D. Schmeling, J. Swarcz, A-M

Benthic primary production in two perennially ice-covered Antarctic Lakes: patterns of biomass accumulation with a model of community metabolism.

Antarctic science 13(1): 18-27, 2001.

Hawes, I.

The state of the Ross Sea region terrestrial environment: Aquatic habitats.

in *Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.*

Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.4.58-4.78.

ISBN 047810961X

Hemmings, A.

Ross Sea region overview.

in *Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.*

Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.2.1-2.18.

ISBN 047810961X



Henry, S.A. Bucker, C.J. Niessen, F. Bartek, L.R.
Correlation of seismic reflectors with the CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antarctica 8(3): 127-136, 2001.

Howard, T.A. Menk, F.W. Morris, R.J.
Conjugacy of Pc3-4 waves in the high-latitude magnetosphere.
ANARE reports 146: 341-354, 2001.

J

Jarrard, R.D.
Petrophysics of core plugs from CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antarctica 8(3): 143-150, 2001.

Jarrard, R.D. Paulsen, T.S. Wilson, T.J.
Orientation of CRP-3, Victoria Land Basin, Antarctica.
Terra Antarctica 8(3): 161-166, 2001.

Jarrard, R.D. Bucker, C.J. Wilson, T.J. Paulsen, T.S.
Bedding dips from the CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antarctica 8(3): 167-176, 2001.

Jarrard, R.D. Moos, D. Wilson, T.J. Bucker, C.J. Paulsen, T.S.
Stress patterns observed by borehole televiewer logging of the CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antarctica 8(3): 197-204, 2001.

H

Kettler, R.M.
Results of whole-rock organic geochemical analyses of the CRP-3 drillcore, Victoria Land Basin, Antarctica.
Terra Antarctica 8(3): 303-308, 2001.

Klee, R.J.
Industrial metabolism on ice: a case study of industrial materials flows and environmental management alternatives for Scott Base, New Zealand's Antarctic research station.
Journal of the Royal Society of New Zealand 31(2): 393-409, 2001.

Knox, G. Ling, N. Patrick, M. Wilson, P.
The state of the Ross Sea region marine environment.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica. Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.5.1-5.45.
ISBN 047810961X

Krissek, L.A. Kyle, P.R.
Geochemical indicators of weathering, Cenozoic palaeoclimates, and provenance in fine-grained sediments from CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 561-568, 2001.

L

Lange, O.L. Green, T.G.A. Heber, U.
Hydration-dependent photosynthetic production of lichens: what do laboratory studies tell us about field performance?
Journal of experimental botany 52(363): 2033-2042, 2001.

Langhorne, P.J. Squire, V.A. Fox, C. Haskell, T.G.
Lifetime estimation for a fast ice sheet subjected to ocean swell.
Annals of glaciology 33: 333-338, 2001.

Lavelle, M. Fielding, C.R. Hall, M.A. Thomson, M.R.A.
Molluscan stable isotope temperature estimates of the southwestern Ross Sea during the Early Oligocene and Early Miocene, CRP-2/2A and CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 439-444, 2001.

Lavelle, M.A.
Strontium isotope stratigraphy for CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 593-597, 2001.

Law, C.S. Boyd, P.W. Watson, A.J. (guest eds)
SOIREE - the Southern Ocean iron release experiment.
Deep-sea research II 48(11-12), 2001.

Lloyd Davies, M.T. van der Meer, J.J.M.
Neogene glacial history of the Allan Hills, south Victoria Land, Antarctica-Field Report, 1999-2000.
Amsterdam, The Netherlands: Centre for Geo-ecological Research. 2001.
[ICG Rapporten 2001/4]

m

Maldonado, M.T. Boyd, P.W. LaRoche, J. Strzepek, R. Waite, A. Bowie, A.R. Croot, P.L. Frew, R.D. Price, N.M.
Iron uptake and physiological response of phytoplankton during a mesoscale Southern Ocean iron enrichment.
Limnology and oceanography 46(7): 1802-1808, 2001.

McClintock, M.K.
Phreatomagmatism at Coombs Hills, Antarctica: magma-water super-volcanism in a wet, failed rift.
M.Sc., University of Otago, 2001.



n

Naish, T.R. Woolfe, K.J. Barrett, P.J. Wilson, G.S. Atkins, C. Bohaty, S.M. Bucker, C.J. Claps, M. Davey, F.J. Dunbar, G.B. et al.
Orbitally induced oscillations in the East Antarctic ice sheet at the Oligocene/Miocene boundary.
Nature 413: 719-723, 2001.

Naish, T.R. Barrett, P.J. Dunbar, G.B. Woolfe, K.J. Dunn, A.G. Henrys, S.A. Claps, M. Powell, R.D. Fielding, C.R.
Sedimentary cyclicity in CRP drillhole, Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 225-244, 2001.

Neumann, M.
Preliminary investigations of the mineral record from CRP-3 drillcore, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 517-522, 2001.

Neumann, M. Ehrmann, W.
Mineralogy of sediments from CRP-3, Victoria Land Basin, Antarctica, as revealed by x-ray diffraction.
Terra Antartica 8(4): 523-532, 2001.

Nodder, S.D. Waite, A.M.
Is Southern Ocean carbon and biogenic silica enhanced by iron-stimulated increases in biological production? Sediment trap results from SOIREE.
Deep-sea research II 48(11-12): 2681-2701, 2001.

p

Patrick, M.
Key pressures on the Ross Sea region environment: Fishing and whaling.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.
Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.3.38-3.51.
ISBN 047810961X

Peterson, D. Howard-Williams, C. (eds)
The Latitudinal Gradient Project, report of an Antarctica New Zealand Workshop, Christchurch 15-16 August 2000.
Christchurch: Antarctica New Zealand. 2001.
[Antarctica New Zealand miscellaneous series no. 6]
ISBN 0478109598

Pompilio, M. Armienti, P. Tamponi, M.
Petrography, mineral composition and geochemistry of volcanic and subvolcanic rocks of CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 469-480, 2001.

Powell, R.D. Laird, M.G. Naish, T.R. Fielding, C.R. Krissek, L.A. van der Meer, J.J.M.
Depositional environments for strata cored in CRP-3 (Cape Roberts Project), Victoria Land Basin,
Antarctica: palaeoglaciological and palaeoclimatological influences.
Terra Antartica 8(3): 207-216, 2001.

Purdy, K.J. Hawes, I. Bryant, C.L. Fallick, A.E. Nedwell, D.B.
Estimates of sulphate reduction in Lake Vanda, Antarctica support the proposed recent history of
the lake.
Antarctic science 13: 393-399, 2001.

R

Raine, J.I. Askin, R.A.
Terrestrial palynology of Cape Roberts Project drillhole CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 389-400, 2001.

Ritchie, P.A.
The evolution of the mitochondrial control region in the Adèlie penguins of Antarctica.
Ph.D., Massey University, 2001.

Roeder, A.D. Marshall, R.K. Mitchelson, A.J. Visagathilagar, T. Ritchie, P.A. Love, D.R. Pakai, T.J.
McPartlan, H.C. Murray, N.D. Robinson, N.A. et al.
Gene flow on the ice: genetic differentiation among Adèlie penguin colonies around Antarctica.
Molecular ecology 10: 1645-1656, 2001.

Roscoe, H.K. Kreher, K. Friess, U.
Ozone loss episodes in the free Antarctic troposphere, suggesting a possible climate feedback.
Geophysical research letters 28(15): 2911-2914, 2001.

Roxburgh, G.
Environment on ice.
New Zealand geographic 50: 19-22, 2001.

S

Sagnotti, L. Verosub, K.L. Roberts, A.P. Florindo, F. Wilson, G.S.
Environmental magnetic record of the Eocene-Oligocene transition in CRP-3 drillcore, Victoria
Land Basin, Antarctica.
Terra Antartica 8(4): 507-516, 2001.

Sandroni, S. Talarico, F.
Petrography and provenance of basement clasts and clast variability in CRP-3 drillcore (Victoria
Land Basin, Antarctica).
Terra Antartica 8(4): 449-467, 2001.



Setti, M. Marinoni, L. López-Galindo, A.
Crystal-chemistry of smectites in sediments of CRP-3 drillcore (Victoria Land Basin, Antarctica): preliminary results.

Terra Antartica 8(4): 543-550, 2001.

Sharpe, M. Love, C. Marshall, C.
Lactate dehydrogenase from the Antarctic eelpout, *Lycodichthys dearborni*.

Polar biology 24(4): 258-269, 2001.

Shepherd, L.
The evolution of microsatellite DNA in ancient and modern populations of Adélie penguins in Antarctica.

M.Sc., Massey University, 2001.

Sinclair, B.J. Sjurson, H.
Terrestrial invertebrate abundance across a habitat transect in Keble Valley, Ross Island, Antarctica.

Pedobiologia 45: 134-145, 2001.

Sinclair, B.J.
On the distribution of terrestrial invertebrates at Cape Bird, Ross Island, Antarctica.

Polar biology 24: 394-400, 2001.

Sinclair, B.J. Sjurson, H.
Cold tolerance of the Antarctic springtail *Gomphiocephalus hodgsoni* (Collembola, Hypogastruridae).

Antarctic science 13(3): 271-279, 2001.

Skotnicki, M.L. Selkirk, P.M. Broady, P. Adam, K.D. Ninham, J.A.
Dispersal of the moss *Campylopus pyriformis* on geothermal ground near the summits of Mount Erebus and Mount Melbourne, Victoria Land, Antarctica.

Antarctic science 13(3): 280-285, 2001.

Smellie, J.L. Ehrmann, W. Talarico, F.
Provenance and climate petrological studies for CRP-3; Introduction.

Terra Antartica 8(4): 445-447, 2001.

Smellie, J.L.
History of Oligocene erosion, uplift and unroofing of the Transantarctic Mountains deduced from sandstone detrital modes in CRP-3 drillcore, Victoria Land Basin, Antarctica.

Terra Antartica 8(4): 481-489, 2001.

Smith, I.
Platelet ice in McMurdo Sound, Antarctica.

Ph.D., University of Otago, 2001.

Smith, I.J. Langhorne, P.J. Haskell, T.G. Trodahl, H.J. Frew, R. Vennell, M.R.
Platelet ice and the land-fast sea ice of McMurdo Sound, Antarctica.
Annals of glaciology 33: 21-27, 2001.

Smith, P.J. Gaffney, P.M. Purves, M.
Genetic markers for identification of Patagonian toothfish and Antarctic toothfish.
Journal of fish biology 58: 1190-1194, 2001.

Sprovieri, M. Bellanca, A. Neri, R.
Bulk geochemistry of the sand fraction from CRP-3 (Victoria Land Basin, Antarctica): evidence for provenance and Milankovitch climatic fluctuations.
Terra Antartica 8(4): 551-560, 2001.

Squire, V.A. Dixon, T.W.
How a region of cracked sea ice affects ice-coupled wave propagation.
Annals of glaciology 33: 327-332, 2001.

Steel, G.D.
Polar moods: the third-quarter phenomena in the Antarctic.
Environment and behavior 33(1): 126-133, 2000.

Stolarski, J. Taviani, M.
Oligocene scleractinian corals from CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 435-438, 2001.

Strong, C.P. Webb, P.N.
Lower Oligocene foraminiferal fauna from CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 347-358, 2001.

T

Taviani, M. Beu, A.G.
Palaeogene macrofossils from CRP-3 drillhole, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 423-434, 2001.

Terkildsen, M.B. Fraser, B.J. Menk, F.W. Rosenberg, T.J. Morris, R.J.
Observations of absorption patches associated with magnetic impulse events.
ANARE reports 146: 165-180, 2001.

Thomson, M.R.A. Raine, J.I. Villa, G.
Palaeontological studies for CRP-3; Introduction.
Terra Antartica 8(4): 313-314, 2001.



Thorn, V.C.
Oligocene and Early Miocene phytoliths from CRP-2/2A and CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 407-422, 2001.

Trodahl, H.J. Wilkinson, S.O.F. McGuinness, M.J. Haskell, T.G.
Thermal conductivity of sea ice: dependence on temperature and depth.
Geophysical research letters 28: 1279-1282, 2001.

Trull, T. Rintoul, S.R. Hadfield, M. Abraham, E.R.
Circulation and seasonal evolution of polar waters south of Australia: implications for iron fertilization of the Southern Ocean.
Deep-sea research II 48(11-12): 2439-2466, 2001.

W
Waite, A.M. Nodder, S.D.
The effect of in situ iron addition on the sinking rates and export flux of Southern Ocean diatoms.
Deep-sea research II 48(11-12): 2635-2654, 2001.

Waterhouse, E. (ed)
Cape Roberts Project final environmental report 1995 - 2001.
Christchurch: Antarctica New Zealand. 2001.
[Antarctica New Zealand miscellaneous series no. 7]
ISBN 0478109601

Waterhouse, E. (ed)
Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.
Christchurch: New Zealand Antarctic Institute. 2001.
ISBN 047810961X

Waterhouse, E.
Setting the scene.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.
Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.1.1-1.5.
ISBN 047810961X

Waterhouse, E.
Key Issues and conclusions.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.
Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.7.1-7.11.
ISBN 047810961X

Watkins, D.K. Wise Jr., S.W. Villa, G.
Calcareous nannofossils from Cape Roberts Project drillhole CRP-3, Victoria Land Basin, Antarctica.
Terra Antartica 8(4): 339-346, 2001.

White, J.D.L. McClintock, M.K.

Immense vent complex marks flood-basalt eruption in wet, failed rift: Coombs Hills, Antarctica.
Geology 29(10): 935-938, 2001.

Wilson, R.S. Franklin, C.E. Davison, W. Kraft, P.

Stenotherms at sub-zero temperatures: thermal dependence of swimming performance in Antarctic fish.
Journal of comparative physiology 171B: 263-269, 2001.

Wilson, P.R. Ainley, D.G. Nur, N. Jacobs, S.S. Barton, K.J. Ballard, G. Comisco, J.C.

Adélie penguin population change in the Pacific sector of Antarctica: relation to sea-ice extent and the Antarctic Circumpolar Current.
Marine ecology progress series 213: 301-309, 2001.

Wilson, T.J. Paulsen, T.S.

Fault and fracture patterns in CRP-3 core, Victoria Land Basin, Antarctica.
Terra Antartica 8(3): 177-196, 2001.

Wise Jr., S.W. Smellie, J. Aghib, F. Jarrard, R. Krissek, L.

Authigenic smectite clay coats in CRP-3 drillcore, Victoria Land Basin, Antarctica, as a possible indicator of fluid flow: a progress report.
Terra Antartica 8(3): 281-298, 2001.

Wood, S.

Key pressures on the Ross Sea region environment: Global influences.
in Ross Sea Region 2001: A state of the environment report for the Ross Sea region of Antarctica.
Waterhouse E. (ed). Christchurch: New Zealand Antarctic Institute. 2001. pp.3.52-3.63.
ISBN 047810961X

Wright, I.M. Fraser, B.J. Menk, F.W.

Observations of polar cap arc drift motion from Scott Base.
ANARE news 146: 233-246, 2001.

Z

Zeldis, J.

Mesozooplankton community composition, feeding, and export production during SOIREE.
Deep-sea research II 48(11-12): 2615-2634, 2001.



A

Aislabie, J.
Impacts of hydrocarbon spills on Antarctic soils.
in New Zealand's Antarctic research 2001-2002. Christchurch, New Zealand: Antarctica New Zealand. 2002. pp.7-9.
ISSN 1176-0036

Allibone, A. Wysoczanski, R.
Initiation of magmatism during Cambrian-Ordovician Ross orogeny in southern Victoria Land, Antarctica.
Geological Society of America bulletin 114(8): 1007-1018, 2002.

Atkins, C.B. Barrett, P.J. Hicock, S.R.
Cold glaciers erode and deposit: evidence from Allan Hills, Antarctica.
Geology 30(7): 659-662, 2002.

Augustinus, P.C.
Weathering characteristics of glacial drifts, Bunger Hills, Antarctica.
Arctic, Alpine and Antarctic Research 34(1): 65-75, 2002.

Augustinus, P.C. Duller, G.A.T.
Luminescence and radiocarbon dating of raised beach sediments, Bunger Hills, east Antarctica.
Royal Society of New Zealand bulletin 35: 419-429, 2002.

B

Balks, M.R. Paetzold, R.F. Kimble, J.M. Aislabie, J. Campbell, IB.
Effects of hydrocarbon spills on the temperature and moisture regimes of Cryosols in the Ross Sea region.
Antarctic science 14(4): 319-326, 2002.

Balks, M.R. Holmes, D.J. Aislabie, J.
Fate and effects of hydrocarbons in Antarctic soil: preliminary results of an experimental fuel spill.
in Transactions of 17th World Congress of Soil Science, 14-21 August 2002, Bangkok, Thailand. Kheoruenromne I. (ed). 2002. pp.320-329.

Banks, J.C. Mitchell, A.D. Waas, J.R. Paterson, A.M.
An unexpected pattern of molecular divergence within the blue penguin (*Eudyptula minor*) complex.
Notornis 49: 29-38, 2002.

Bannister, S. Naish, T.R.
ANDRILL site investigations, New Harbour and McMurdo Ice Shelf, Southern McMurdo Sound, Antarctica.
Lower Hutt, New Zealand: Institute of Geological and Nuclear Sciences. 2002.
[Institute of Geological and Nuclear Sciences science report 2002/01]
ISBN 0478097514

Bannister, S. Kennett, B.L.N.
Seismic activity of the Transantarctic Mountains - results from a broadband array deployment.
Terra Antarctica 9(1): 41-46, 2002.

Baraniecki, C.A. Aislabie, J. Foght, J.M.
Characterization of *Sphingomonas* sp. Ant 17, an aromatic hydrocarbon-degrading bacterium isolated from Antarctic soil.
Microbial ecology 43: 44-54, 2002.


Barrett, P.J.
An Antarctic perspective on climate change.
in New Zealand's Antarctic research 2001-2002. Christchurch, New Zealand: Antarctica New Zealand. 2002. pp.3-6.
ISSN 1176-0036

Begum, A. Broady, P.A.
Chlorellidium pyrenoidosum spec. nova (Mischococcales, Xanthophyceae) from New Zealand soils.
Algological studies 107: 163-172, 2002.

Blanchette, R.A. Held, B.W. Farrell, R.L.
Defibrillation of wood in the expedition huts of Antarctica: an unusual deterioration process occurring in the polar environment.
Polar record 38(207): 313-322, 2002.

Bradshaw, M.A. Newman, J. Aitchison, J.C.
The sedimentary geology, palaeoenvironments and ichnocoenoses of the Lower Devonian Horlick Formation, Ohio Range, Antarctica.
Antarctic science 14(4): 395-411, 2002.

Bradshaw, M.A.
Short Note: A new ichnogenus *Catenarichnus* from the Devonian of the Ohio Range, Antarctica.
Antarctic science 14(4): 422-424, 2002.

 Carton, A.G. Montgomery, J.C.
Responses of lateral line receptors to water flow in the Antarctic notothenioid, *Trematomus bernacchii*.
Polar biology 25: 789-793, 2002.



Claridge, G.G.C. Campbell, I.B.
Evidence for early invasions of the McMurdo Sound region by Ross Sea ice.
Royal Society of New Zealand bulletin 35: 373-376, 2002.

Cook, Y. Craw, D.
Neoproterozoic structural slices in the Ross Orogen, Skelton Glacier area, south Victoria Land, Antarctica.
New Zealand journal of geology and geophysics 45: 133-143, 2002.

Cottle, J.M.
Magmatic evolution of a convergent margin: a study of Ross Orogeny magmatism in the Carlyon Glacier Region, Southern Victoria Land, Antarctica.
M.Sc., University of Otago, 2002.

Cowan, D.A. Russell, N.J. Mamais, A. Sheppard, D.M.
Antarctic Dry Valley mineral soils contain unexpectedly high levels of microbial biomass.
Extremophiles 6: 431-436, 2002.

Cowie, J. (ed)
Cape Roberts Project Final Report 1995-2001.
Christchurch: Antarctica New Zealand. 2001.
[Antarctica New Zealand miscellaneous series No. 8]
ISBN 0478109628

D

Davison, W. Franklin, C.E.
The Antarctic nemertan *Parborlasia corrugatus*: an example of an extreme oxyconformer.
Polar biology 25: 238-240, 2002.

E

Eckford, R. Cook, F.D. Saul, D. Aislabie, J. Foght, J.
Free-living heterotrophic nitrogen-fixing bacteria isolated from fuel-contaminated Antarctic soils.
Applied and environmental microbiology October: 5181-5185, 2002.

F

Fitzsimons, S. Sirota, P.
Deformation structures in cold basal ice; insights into subglacial glaciotectionic processes.
in Proceedings of the 16th International Symposium on Ice, Dunedin, New Zealand, Dec. 2-6, 2002.
Vol.16 (Vol. 3). Squire V. Langhorne P.J. 2002. pp.48-56.
ISBN 1877139521

Forsyth, P.J. Mortimer, N. Turnbull, I.M.
Plutonic rocks from the Cape Roberts hinterland: Wilson Piedmont Glacier, southern Victoria Land, Antarctica.
Terra Antartica 9(2): 57-72, 2002.

G

Goff, J.R. Jennings, I.W. Dickinson, W.W.
 Depositional environments of Sirius Group sediments, Table Mountain, Dry Valleys area, Antarctica.
Geografiska annaler 84A: 11-24, 2002.

Graham, I.J. Ditchburn, R.G. Claridge, G.G.C. Whitehead, N.E. Zondervan, A. Sheppard, D.S.
 Dating Antarctic soils using atmospheric-derived ¹⁰Be and nitrate.
Royal Society of New Zealand bulletin 35: 429-436, 2002.

H

Hall, B.L. Denton, G.H. Overturf, B. Hendy, C.H.
 Glacial Lake Victoria, a high-level Antarctic lake inferred from lacustrine deposits in Victoria Valley.
Journal of quaternary science 17(7): 697-706, 2002.

Hambrey, M.J. Barrett, P.J. Powell, R.D.
 Late Oligocene and early Miocene glacial-marine sedimentation in the SW Ross Sea, Antarctica: the record from offshore drilling.
 in *Glacier-influenced Sedimentation on High-Latitude Continental Margins*. Dowdeswell J.A. Ó Cofaigh C. (eds). London: Geological Society. pp.105-128.
 [Special Publications]

Han, A.S.K.
An investigation into the tidal regime at Cape Roberts in the Ross Sea, Antarctica.
 B.Sc., University of Otago, 2002.

Haskell, T.
 Sea ice physics.
 in *New Zealand's Antarctic research 2001-2002*. Christchurch, New Zealand: Antarctica New Zealand. 2002. pp.10-13.
 ISSN 1176-0036

Hegarty, G.M. Squire, V.A.
 Large amplitude periodic waves beneath an ice sheet.
 in *Ice in the environment: proceedings of the 16th IAHR International Symposium on Ice*. Vol. 2. Squire V.A. Langhorne P.J. (eds). International Association for Hydraulic Engineering and Research. 2002. pp.310-317.
 ISBN 1877139521

Hicock, S.R. Goff, J.R. Dickinson, W.W.
 Macroscopic and mesoscopic analysis of outcrop and core, Sirius Group, Table Mountain, Dry Valleys, Antarctica.
Royal Society of New Zealand bulletin 35: 319-325, 2002.



Hindell, M.A. Harcourt, R. Waas, J.R. Thompson, D.
Fine-scale three dimensional spatial use by diving, lactating female Weddell seals *Leptonychotes weddellii*.
Marine ecology progress series 242: 275-284, 2002.

Hogg, I.D. Stevens, M.I.
Soil Fauna of Antarctic Coastal Landscapes.
in *Geoecology of Antarctic ice-free coastal landscapes*. Beyer L. Bölter M (eds). Berlin Heidelberg: Springer-Verlag. 2002. pp.265-280.
[Ecological Studies, Vol. 154]

Holmes, D.J. Balks, M.R. Aislabie, J.
The fate and effects of JP-5 fuel in Antarctic soil: a controlled experiment at Scott Base, Antarctica.
in *Contaminants in Freezing Ground. Proceedings of the 3rd International Conference, 14-18 April 2002, Hobart, Tasmania*. Snape I. Warren R. (eds). 2002. pp.110.

Horn, P.L.
Age and growth of Patagonian toothfish (*Dissostichus eleginoides*) and Antarctic toothfish (*D. mawsoni*) in waters from the New Zealand subantarctic to the Ross Sea, Antarctica.
Fisheries research 56: 275-287, 2002.

Howard-Williams, C. Hawes, I.
Antarctic inland waters; a microbe-dominated extreme environment.
in *New Zealand's Antarctic research 2001-2002*. Christchurch, New Zealand: Antarctica New Zealand. 2002. pp.14-17.
ISSN1176-0036

Huston, S.M. Waterhouse, E.J. (eds)
Ross Sea Region 2001: The Next Steps. A workshop to build on the first Antarctic state of the environment report. Proceedings.
Christchurch: New Zealand Antarctic Institute. 2002.
ISBN 0478109644

Lambert, D.M. Ritchie, P.A. Millar, C.D. Holland, B. Drummond, A.J. Baroni, C.
Rates of evolution in ancient DNA from Adélie penguins.
Science 295(March): 2270-2273, 2002.

Lloyd Davies, M.T. van der Meer, J.J.M.
The Glacial History of the East Antarctic Ice Sheet at Allan Hills and Mount Feather and contemporary Glacial processes at Blood Falls, Taylor Valley, Antarctica-Field Report, 2001-2002.
Amsterdam, The Netherlands: Centre for Geo-ecological Research. 2002.
[ICG Rapporten 02/3]
ISBN 907707905X

Lorrain, R. Sleewaegen, S. Fitzsimons, S. Stievenard, M.
Ice formation in an Antarctic glacier-dammed lake and implications for glacier interactions.
Arctic, Alpine and Antarctic Research 34(2): 150-158, 2002.

m

Matsuoka, H. Yukimatu, A.S. Yamagishi, H. Sato, N. Sofko, G.J. Fraser, B.J. Ponomarenko, P. Liu, R. Goka, T.
Coordinated observation of Pc3 pulsations near cusp latitudes.
Journal of geophysical research 107(A11, 1400) doi: 10.1029/2001JA000065, 2002.

McClintock, M.K. White, J.D.L.
Granulation of weak rock as a precursor to peperite formation: coal peperite, Coombs Hills, Antarctica.
Journal of volcanology and geothermal research 114: 205-217, 2002.

Mellish, S.D. Cooper, A.F. Walker, N.W.
The Panorama Pluton: a composite gabbro-monzodiorite early Ross Orogeny intrusion in southern Victoria Land, Antarctica.
Royal Society of New Zealand bulletin 35: 129-141, 2002.

Mortimer, N. Forsyth, P.J. Turnbull, I.M.
Reassessment of faults in the Wilson Piedmont Glacier area: implications for age and style of Transantarctic Mountains uplift.
in Antarctica at the close of a millennium: proceedings of the 8th International Symposium on Antarctic Earth Sciences, Wellington, 1999. Gamble J.A. Skinner D.N.B. Henrys S.A. (eds) Wellington: Royal Society of New Zealand. 2002. pp.207-213.
[Bulletin / Royal Society of New Zealand 35]

P

Pancheva, D. Merzlyakov, E. Mitchell, N.J. Portnyagin, Y. Manson, A.H. Jacobi, C. Meek, C.E. Luo, Y. Clark, R.R. Hocking, W.K. et al.
Global-scale tidal variability during the PSMOS campaign of June-August 1999: interaction with planetary waves.
Journal of atmospheric and solar-terrestrial physics 64(17): 1865-1896, 2002.

Pancheva, D. Mitchell, N.J. Hagan, M.E. Manson, A.H. Meek, C.E. Luo, Y. Jacobi, C.H. Kurshner, C. Clark, R.R. Hocking, W.K. et al.
Global-scale tidal structure in the mesosphere and lower thermosphere during the PSMOS campaign of June-August 1999 and comparisons with the global-scale wave model.
Journal of atmospheric and solar-terrestrial physics 64(17): 1011-1035, 2002.

Panicker, G. Aislabie, J. Saul, D. Bej, A.K.
Cold tolerance of *Pseudomonas* sp. 30-3 isolated from oil-contaminated soil, Antarctica.
Polar biology 25: 5-11, 2002.



Peterson, D.
New Zealand's Antarctic research.
in New Zealand's Antarctic research 2001-2002. Christchurch, New Zealand: Antarctica New Zealand. 2002. pp.1-2.
ISSN1176-0036

Ponomarenko, P.V. Fraser, B.J. Menk, F.W. Ables, S.T. Morris, R.J.
Cusp-latitude Pc3 spectra: band-limited and power-law components.
Annales geophysicae 20: 1539-1551, 2002.

R

Read, S.E. Cooper, A.F. Walker, N.W.
Geochemistry and U-Pb geochronology of the Neoproterozoic-Cambrian Koettlitz Glacier Alkaline Province, Royal Society Range, Transantarctic Mountains, Antarctica.
Royal Society of New Zealand bulletin 35: 143-151, 2002.

Richardson, C.D.
Geology of West Worcester Hills, southern Victoria Land, Antarctica.
M.Sc., University of Otago, 2002.

Roeder, A. Ritchie, P.A. Lambert, D.M.
New DNA markers for penguins.
Conservation genetics 3(3): 341-344, 2002.

Ryan, K.G. McMinn, A. Mitchell, K.A. Trenerry, L.
Mycosporine-like amino acids in Antarctic sea ice algae, and their response to UVB radiation.
Zeitschrift fur Naturforschung 57(c): 471-477, 2002.

S

Sheppard, D.S. Claridge, G.G.C. Campbell, I.B. Lyon, G.L. Rogers, K.M.
The origin of nitrate and sulphate in Antarctic soils.
Royal Society of New Zealand bulletin 35: 437-441, 2002.

Simpson, A.L. Cooper, A.F.
Short Note: Geochemistry of the Darwin Glacier region granitoids, southern Victoria Land.
Antarctic science 14(4): 425-426, 2002.

Simpson, A.L.
Felsic magmatism in the Darwin Glacier region, southern Victoria Land, Antarctica.
M.Sc., University of Otago, 2002.

Sinclair, B.
Effects of increased temperatures simulating climate change on terrestrial invertebrates on Ross Island, Antarctica.
Pedobiologia 46: 150-160, 2002.

Sjursen, H. Sinclair, B.J.
On the cold hardiness of *Stereotydeus mollis* (Acari: Prostigmata) from Ross Island, Antarctica.
Pedobiologia 46: 188-195, 2002.

Skotnicki, M.L. Bargagli, R. Ninham, J.A.
Genetic diversity in the moss *Pohlia nutans* on geothermal ground of Mount Rittmann, Victoria Land, Antarctica.
Polar biology 25: 771-777, 2002.

Sleewagen, S. Lorrain, R. Zoffer, Z. Azmon, E. Fitzsimons, S. Souchez, R.
Trapping of aeolian sediments and build-up of the ice cover of a dry-based Antarctic lake.
Earth surface processes and landforms 27: 307-315, 2002.

Solomon, P. Connor, B. Barrett, J. Mooney, T. Lee, A. Parrish, A.
Measurements of stratospheric ClO over Antarctica in 1996-2000 and implications for ClO dimer chemistry.
Geophysical research letters 29(25): 10.1029/2002GL015232, 2002.

Squire, V.A. Langhorne, P.J. (eds)
Ice in the environment: proceedings of 16th International Symposium on Ice, Vol. 1.
International Association of Hydraulic Engineering and Research. 2002.
ISBN 1877139521

Squire, V.A. Langhorne, P.J. (eds)
Ice in the environment: proceedings of 16th International Symposium on Ice, Vol. 2.
International Association of Hydraulic Engineering and Research. 2002.
ISBN 1877139521

Squire, V.A. Langhorne, P.J. (eds)
Ice in the environment: proceedings of 16th International Symposium on Ice, Vol. 3.
International Association of Hydraulic Engineering and Research. 2002.
ISBN 1877139521

Stevens, M.I.
Population genetic structures and dispersal patterns of arthropods in New Zealand and the Ross Dependency, Antarctica.
Ph.D., University of Waikato, 2002.



Stevens, M.I. Hogg, I.D.
Expanded distributional records of Collembola and Acari in southern Victoria Land, Antarctica.
Pedobiologia 46: 485-495, 2002.

T

Trenerry, L.J. McMinn, A. Ryan, K.G.
In situ oxygen microelectrode measurements of bottom ice algal production in McMurdo Sound, Antarctica.
Polar biology 25: 72-80, 2002.

Trenerry, L.J. McMinn, A. Ryan, K.G.
In situ oxygen microelectrode measurements of bottom ice algal production in McMurdo Sound, Antarctica.
in Ecological studies in the Antarctic sea ice zone: results of EASIZ midterm symposium. Arntz W. Clarke A. (eds). Berlin, New York: Springer-Verlag. 2002. pp.185-193.
ISBN 3540432183

W

Wharton, D.A. Goodall, G. Marshall, C.J.
Freezing rate affects the survival of a short-term freezing stress in *Panagrolaimus davidi*, an Antarctic nematode that survives intracellular freezing.
CryoLetters 23: 5-10, 2002.

Wharton, D.A.
Life at the limits: organisms in extreme environments.
Cambridge: Cambridge University Press. 2002.
ISBN 0521782120

Whitehead, N.E. Lyon, G.L. Claridge, G.G.C. Sato, H. Ikeya, M.
ESR studies on Antarctic carbonates and sulphates.
Advances in ESR applications 18: 11-18, 2002.

Williams, T.D. Squire, V.A.
Ice-coupled waves near a deep water tide crack or ice jetty.
in Ice in the environment: proceedings of the 16th IAHR International Symposium on Ice. Vol. 2. Squire V.A. Langhorne P.J. (eds). International Association for Hydraulic Engineering and Research. 2002. pp.318-326.
ISBN 1877139521

Williams, T.D. Squire, V.A.
Wave propagation across an oblique crack in an ice sheet.
International journal of offshore and polar engineering 12(3): 157-162, 2002.

Williams, T.D. Squire, V.A.

Wave propagation across an oblique crack in an ice sheet.

in Proceedings of the 12th International Offshore and Polar Engineering Conference. Cupertino, California: International Society of Offshore and Polar Engineers. 2002. pp.791-795.

Wilson, G.S. Lavelle, M. McIntosh, W.C. Roberts, A.P. Harwood, D.M. Watkins, D.K. Villa, G. Bohaty, S.M. Fielding, C.R. Florindo, F. et al.

Integrated chronostratigraphic calibration of the Oligocene-Miocene boundary at 24.0 +/- 0.1 Ma from the CRP-2A drill core, Ross Sea, Antarctica.

Geology 30(11): 1043-1046, 2002.

Wilson, G.S. Barron, J.A. Ashworth, A.C. Askin, R.A. Carter, J.A. Curren, M.G. Dalhuisen, D.H. Friedmann, E.I. Fyodorov-Davidov, D.G. Gilichinsky, D.A. et al.

The Mount Feather diamicton of the Sirius Group: an accumulation of indicators of Neogene Antarctic glacial and climate history.

Palaeogeography, palaeoclimatology, palaeoecology 182: 117-131, 2002.

Wilson, R.S. Kuchel, L.J. Franklin, C.E. Davison, W.

Turning up the heat on subzero fish: thermal dependence of sustained swimming in Antarctic fish.

Journal of thermal biology 27: 381-386, 2002.

Wood, S.W. Bodeker, G.E. Boyd, I.S. Jones, N.B. Connor, B.J. Johnston, P.V. Matthews, W.A. Nichol, S.E. Murcray, F.J. Nakajima, H. et al.

Validation of version 5.20 ILAS HNO₃, CH₄, N₂O, O₃, and NO₂ using ground-based measurements at Arrival Heights and Kiruna.

Journal of geophysical research 107(D24, 8208) doi: 10.1029/2001JD000581, 2002.



A

Ah Tow, L. Cowan, D.A.
Non-specificity of Staphylococcus generic primers.
Microbiology 149(7): 1605-1607, 2003.

Ainley, D.G. Ballard, G. Barton, K.J. Karl, B.J. Rau, G.H. Ribic, C.A. Wilson, P.R.
Spatial and temporal variation of diet within a presumed metapopulation of Adelie penguins.
Condor 105: 95-106, 2003.

Aitken, A.R.A.
Lithospheric flexure induced by the volcanic loads of the Ross Archipelago, McMurdo Sound, Antarctica.
M.Sc., University of Otago, 2003.

Ajtić, J.
Dilution of the Antarctic ozone hole into southern midlatitudes.
Ph.D., Canterbury University, 2003.

Ajtić, J. Connor, B.J. Randall, C.E. Lawrence, B.N. Bodeker, G.E. Rosenfield, J.E. Heuff, D.N.
Antarctic air over New Zealand following vortex breakdown in 1998.
Annales geophysicae 21: 2175-2183, 2003.

Atkins, C.B.
Characteristics of striae and clast shape in glacial and non-glacial environments.
Ph.D., Victoria University of Wellington, 2003.

B

Baker, G.C. Ah Tow, L. Cowan, D.A.
PCR-based detection of non-indigenous microorganisms in 'pristine' environments.
Journal of microbiological methods 53: 157-164, 2003.

Banks, J.C.
Cophylogenetic relationships of penguins and their chewing lice.
Ph.D., Lincoln University, 2003.

Banks, J.C. Palma, R.L.
A new species and new host records of *Austrogoniodes* (Insecta: Phthiraptera: Philopteridae) from penguins (Aves: Sphenisciformes).
New Zealand journal of zoology 30: 69-75, 2003.

Bannister, S. Yu, J. Leitner, B. Kennett, B.L.N.
Variations in crustal structure across the transition from West to East Antarctica, Southern Victoria Land.
Geophysical journal international 155: 870-884, 2003.

Barber, A.J.W.
The Neo-Proterozoic to Early Paleozoic evolution of the Ross Orogeny in the Reeves Bluff area, southern Victoria Land, Antarctica.
M.Sc., University of Otago, 2003.

Beckett, S.A.
The Frio Peak area, upper Walcott Glacier region, southern Victoria Land, Antarctica: a detailed study of rocks comprising Frio Shear Zone.
M.Sc., University of Otago, 2003.

Bertler, N.A.N.
Understanding the climate behaviour of the McMurdo Dry Valleys, Antarctica, from coastal ice cores.
Ph.D., Victoria University of Wellington, 2003.

C

Calvert, A.T. Mortimer, N.
Thermal history of Transantarctic Mountains K-feldspars, southern Victoria Land.
Terra Antarctica 10(1): 3-15, 2003.

Campbell, I.B. Cheppard, D.S. Claridge, G.G.C.
Properties of the Transantarctic Mountains soils and relationships and significance to soil contaminants.
Polar record 39(211): 301-308, 2003.

Campbell, I.B. Claridge, G.G.C
Thermokarst landforms in the Transantarctic Mountains region of Antarctica.
in Proceedings of the Eighth International Conference on Permafrost, 21-25 July 2003, Zurich, Switzerland. Volume 1. Phillips M. Springman S.M. Arenson L.U. (eds). 2003. pp.119-123.
ISBN 90-5809-584-3

Cummings, V.J.
Assessing biodiversity on the Antarctic sea floor.
Water and atmosphere 11(3): 10-12, 2003.

D

Davison, W. Franklin, C.E.
Hypertension in *Pagothenia borchgrevinki* caused by X-cell disease.
Journal of fish biology 63: 129-136, 2003.



Dayton, P. Thrush, S.
Antarctica.

in The Living Reef: The Ecology of New Zealand's Rocky Reefs. Andrew N. Francis M. (eds).
Nelson, New Zealand: Craig Potton Publishing, 2003. pp.256-265.
ISBN 187733302606

de los Rios, A. Wierzchos, J. Sancho, L.G. Ascaso, C.
Acid microenvironments in microbial biofilms of Antarctic endolithic microecosystems.
Environmental microbiology 5(4): 231-237, 2003.

Dickinson, W.W. Rosen, M.R.
Antarctica permafrost: an analogue for water and diagenetic minerals on Mars.
Geology 31(3): 199-202, 2003.

E

Eisert, R.
Energy metabolism of weddell seals (Leptonychotes weddellii) during the lactation period.
Ph.D., Lincoln University, 2003.

Elliott, C.
Rock weathering processes in Antarctica: a comparison of some recent studies with those from the Northern Hemisphere.
New Zealand geographer 59(1): 50-60, 2003.

Elliott, C.
Modelling the influence of moisture variations on physical rock weathering processes in Antarctica: proposed investigations and preliminary results.
in Extended abstracts - Eighth International Conference on Permafrost, Zurich, Switzerland, 20-25 July 2003. Haeberli W. Brandova D. (eds). International Permafrost Association. 2003. pp.31-32.

Elliott, C.
Surface moisture availability and rock weathering in cold climates.
New Zealand geographer 60(1): 44-51, 2003.

F

Farrell, R.L. Rhodes, P.L. Aislabie, J.
Toluene-degrading Antarctic *Pseudomonas* strains from fuel-contaminated soil.
Biochemical and biophysical research communications 312: 235-240, 2003.

Fitzsimons, S.J.
Ice-marginal terrestrial landsystems; polar continental glacier margins.
in Glacial landsystems. Evans D.J.(ed). London, United Kingdom: Arnold. 2003. pp.89-110.
ISBN 0340806656

Franklin, C.E. Wilson, R.S. Davison, W.
Locomotion at -1.0°C: burst swimming performance of five species of Antarctic fish.
Journal of thermal biology 28: 59-65, 2003.

Fraser, B.J.
Recent developments in magnetospheric diagnostics using ULF waves.
Space science reviews 107(1-2): 149-156, 2003.

G
Goring, D.G. Pyne, A.R.
Observations of sea-level variability in the Ross Sea, Antarctica.
New Zealand journal of marine and freshwater research 37: 241-249, 2003.

Guglielmin, M. Balks, M.R. Paetzold, R.F.
Towards an Antarctic Active Layer and Permafrost Monitoring Network.
in Proceedings of the Eighth International Conference on Permafrost, 21-25 July 2003, Zurich,
Switzerland. Volume 1. Phillips M. Springman S.M. Arenson L.U. (eds). Balkema. 2003. pp.337-341.

H
Handler, M.R. Wysoczanski, R.J. Gamble, J.A.
Proterozoic lithosphere in Marie Byrd Land, West Antarctica: Re-Os systematics of spinel peridotite
xenoliths.
Chemical geology 196: 131-145, 2003.

Hawes, I. Howard-Williams, C.
Pond life on the McMurdo Ice Shelf - one of the world's strangest ecosystems.
Water and atmosphere 11(3): 16-17, 2003.

Hawes, I. Schwarz, A.-M. Sutherland, D. Howard-Williams, C.
Aquatic ecosystems of the McMurdo Dry Valleys - the edge of survival.
Water and atmosphere 11(3): 18-19, 2003.

Hawkins, S.K.
Antarctic bacteria and enzyme temperature optima.
M.Sc., University of Waikato, 2003.

Held, B.W. Blanchette, R.A. Jurgens, J.A. Duncan, S. Farrell, R.L.
Deterioration and conservation issues associated with Antarctica's historic huts.
in Art, biology and conservation: biodeterioration of works of art. Koestler R.J. Koestler V.H.
Charola A.E. Nieto-Fernandez E. (eds). New York: Yale University Press. 2003. pp.370-389.
ISBN 0300104820



Herbert, N.A. Macdonald, J.A. Wells, R.M.G. Davison, W.
A difference in optomotor behaviour of two Antarctic nototheniid fishes is correlated with the presence of choroid rete mirabile and Root effect.
Polar biology 26: 411-415, 2003.

Horgan, H. Bannister, S. Naish, T. Wilson, G. Pyne, A. Clifford, A. Finnemore, M.
ANDRILL site investigations/seismic surveys, McMurdo Ice Shelf, McMurdo Sound, Antarctica.
Lower Hutt, New Zealand: Institute of Geological and Nuclear Sciences. 2003.
[Institute of Geological and Nuclear Sciences science report 2003/05]
ISBN 047809793X

Horn, P.L. Sutton, C.P. DeVries, A.L.
Evidence to support the annual formation of growth zones in otoliths of Antarctic toothfish (*Dissostichus mawsoni*). Short Note.
CCAMLR Science 10: 125-138, 2003.

H

Kröger, K. Hervig, M. Nardi, B. Oolman, L. Deshler, T. Wood, S.W. Nichol, S.
Stratospheric ozone reaches new minima above McMurdo Station, Antarctica, between 1998 and 2001.
Journal of geophysical research 108(D17, 4555) doi: 10.1029/2002JD002904, 2003.

L

Lawson, W. Elliott, C.
Strain-rate effects on the strength of debris-laden glacier ice.
New Zealand journal of geology and geophysics 46(3): 323-330, 2003.

Liu, Y.H. Fraser, B.J. Liu, R.Y. Ponomarenko, P.V.
Conjugate phase studies of ULF waves in the Pc5 band near the cusp.
Journal of geophysical research 108(A7, 1274) doi: 10.1029/2002JA009336, 2003.

Lockett, G.M.
Landslide and debris flow deposits at the margin of a large vent complex, Mawson Formation, Allan Hills, southern Victoria Land, Antarctica.
M.Sc., University of Otago, 2003.

M

Marriott, P. Horn, P.L. McMillan, P.
Species identification and age estimation from the ridge-scaled macrourid (*Macrourus whitsoni*) from the Ross Sea.
CCAMLR Science 10: 37-51, 2003.

Marshall, C.J. Johnston, N.M. Murray, B.W. Brown, P.M. Verghese, A.I.
Does the enzyme citrate synthase from several Antarctic fish show evidence of cold adaptation? *in* Antarctic biology in a global context. Huiskes A.H.L. Gieskes W.W.C. Rozema J. Schorno R. et al. (eds). Leiden, The Netherlands: Backhuys Publishers. 2003. pp.102-106.
ISBN 90578079X

McMinn, A. Ryan, K. Gademann, R.
Diurnal changes in photosynthesis of Antarctic fast ice algal communities determined by pulse amplitude modulation flurometry.
Marine biology 143: 359-367, 2003.

Mountfort, D.O. Kaspar, H. Asher, R.A. Sutherland, D.
Influences of pond geochemistry, temperature and freeze-thaw on terminal anaerobic processes occurring in sediments of six ponds of the McMurdo Ice Shelf, near Bratina Island, Antarctica.
Applied and environmental microbiology 69: 583-592, 2003.

n

Nakagawa, S. Möstl, E. Waas, J.R.
Validation of an enzyme immunoassay to measure faecal glucocorticoid metabolites from Adelie penguins (*Pygoscelis adeliae*): a non-invasive tool for estimating stress?
Polar biology 26: 491-493, 2003.

Nichol, S.E. Pfister, G. Bodeker, G.E. McKenzie, R.L. Wood, S.W. Bernhard, G.
Moderation of cloud reduction of UV in the Antarctic due to high surface albedo.
Journal of applied meteorology 42(8): 1174-1183, 2003.

p

Pannewitz, S. Schlenso, M. Green, T.G.A. Sancho, L.G. Schroeter, B.
Are lichens active under snow in continental Antarctica?
Oecologia 135: 30-38, 2003.

Pannewitz, S. Green, T.G.A. Scheidegger, C. Schlenso, M. Schroeter, B.
Activity pattern of the moss *Hennediella heimii* (Hedw.) Zand. in the Dry Valleys, Southern Victoria Land, Antarctica during the mid-austral summer.
Polar biology 26(8): 545-551, 2003.

Pettersson, J.K. Nobes, D.C.
Environmental geophysics at Scott Base: ground penetrating radar and electromagnetic induction as tools for mapping contaminated ground at Antarctic research bases.
Cold regions science and technology 37: 187-195, 2003.

Potton, C. Green, B.
Improbable Eden. The Dry Valleys of Antarctica.
Nelson, New Zealand: Craig Potton Publishing. 2003.
ISBN 18773330707

Pringle, D.J. Dickinson, W.W. Trodahl, H.J. Pyne, A.R.
Depth and seasonal variations in the thermal properties of Antarctic Dry Valley permafrost from temperature time series analysis.
Journal of geophysical research 108(B10): 2474-2487, 2003.



R

Rinsland, C.P. Mahieu, E. Zander, R. Jones, N.B. Chipperfield, M.P. Goldman, A. Anderson, J. Russell III, J.M. Demoulin, P. Notholt, J. et al.

Long-term trends of inorganic chlorine from ground-based infrared solar spectra: past increases and evidence for stabilization.

Journal of geophysical research 108(D8, 4252) doi: 10.1029/2002JD003001, 2003.

Ross, P.-S. White, J.D.L.

Discontinuous volcanic eruptions in a phreatomagmatic vent complex: Coombs Hills, South Victoria Land.

Canadian Antarctic research network newsletter 16: 4-6, 2003.

S

Sancho, L.G. Pintado, A. Green, T.G.A. Pannewitz, S. Schroeter, B.

Photosynthetic and morphological variation within and among populations of the Antarctic lichen *Umbilicaria aprina*: implications of the thallus size.

Bibliotheca lichenologica 86: 299-311, 2003.

Schlenzog, M. Schroeter, B. Pannewitz, S. Green, T.G.A.

Adaptations of mosses and lichens to irradiance stress in maritime and continental Antarctic habitats.

in *Antarctic Biology in a Global Context*. Huiskes A.H.L. Gieskes W.W.C. Rozema J. Schorno R. et al. (eds). Leiden, The Netherlands: Backhuys Publishers. 2003. pp.161-166.

ISBN 90578079X

Schofield, R.

The vertical distribution of atmospheric BrO from ground-based measurements.

Ph.D., University of Auckland, 2003.

Schwarz, A.-M. Hawes, I. Andrew, N. Norkko, A. Cummings, V. Thrush, S.

Macroalgal photosynthesis near southern global limit for growth; Cape Evans, Ross Sea, Antarctica.

Polar biology 26: 789-799, 2003.

Schwarz, A.-M.

Life in the dark: plant growth beneath the sea ice.

Water and atmosphere 11(3): 14-15, 2003.

Sinclair, B.J. Klok, C.J. Scott, M.B. Terblanche, J.S. Chown, S.L.

Diurnal variation in supercooling points of three species of Collembola from Cape Hallett, Antarctica.

Journal of insect physiology 49: 1049-1061, 2003.

Sjöling, S. Cowan, D.A.

High 16S rDNA diversity in maritime lake sediment, Bratina Island, Antarctica.

Extremophiles 7: 275-282, 2003.

Sleewaegen, S. Samyn, D. Fitzsimons, S.J. Lorrain, R.D.
Equifinality of basal ice facies from an Antarctic cold-based glacier.
Annals of glaciology 37: 257-262, 2003.

Søchting, U. Seppelt, R.D.
Caloplaca coeruleofrigida sp. nova, a lichen from continental Antarctica.
Mycotaxon 86: 163-168, 2003.

Stevens, M.I. Hogg, I.D.
Long-term isolation and recent expansion from glacial refugia revealed for the endemic springtail
Gomphiocephalus hodgsoni from Victoria Land, Antarctica.
Molecular ecology 12: 2357-2369, 2003.

T

Thrush, S.F.
Voyage on the *Italica*.
Water and atmosphere 11(3): 12, 2003.

V

von Biel, H.A.
The influence of neutral atmospheric dynamics on MF differential absorption results.
Journal of atmospheric and solar-terrestrial physics 65: 139-147, 2003.

W

Wait, B.R.
The physical and geochemical properties of meltwater ponds near Bratina Island, Antarctica.
M.Sc., University of Auckland, 2003.

Webster, J. Webster, K. Nelson, P. Waterhouse, E.
The behaviour of residual contaminants at a former station site, Antarctica.
Environmental pollution 123: 163-179, 2003.

Wery, N. Gerike, U. Sharman, A. Chaudhuri, J.B. Hough, D.W. Danson, M.J.
Use of a packed-column bioreactor. Isolation for isolation of diverse protease-producing bacteria
from Antarctic soil.
Applied and environmental microbiology 69(3): 1457-1464, 2003.

Wharton, D.A. Goodall, G. Marshall, C.J.
Freezing survival and cryoprotective dehydration as cold tolerance mechanisms in the Antarctic
nematode *Panagrolaimus davidi*.
Journal of experimental biology 206: 215-221, 2003.

Wharton, D.A.
The environmental physiology of Antarctic terrestrial nematodes: a review.
Journal of comparative physiology B 173: 621-628, 2003.



Wierzchos, J. de los Rios, A. Sancho, L.G. Green, T.G.A. Ascaso, C.
The integrated microscopical study of Antarctic endolithic microorganisms and their microhabitats.
in Antarctic Biology in a Global Context. Huiskes A.H.L. Gieskes W.W.C. Rozema J. Schorno R. et al. (eds). Leiden, The Netherlands: Backhuys Publishers. 2003. pp.152-156.
ISBN 90578079X

Wierzchos, J. Ascaso, C. Sancho, L.G. Green, T.G.A.
Iron-rich diagenetic minerals are biomarkers of microbial activity in Antarctic rocks.
Geomicrobiology journal 20: 15-24, 2003.

Wirtz, N. Lumbsch, H.T. Green, T.G.A. Türk, R. Pintado, A. Sancho, L. Schroeter, B.
Lichen fungi have low cyanobiont selectivity in maritime Antarctica.
New phytologist 160: 177-184, 2003.

Wood, S.W. Lowe, D.L. Connor, B.J. Kreher, K. Nichol, S.E. Bodeker, G.E.
The Antarctic atmosphere: barometer on a changing world.
Water and atmosphere 11(3): 20-23, 2003.

Wyszczanski, R.J. Forsyth, P.J. Woolfe, K.J.
Zircon dating and provenance of rhyolitic clasts in Beacon Conglomerate, Southern Victoria Land, Antarctica.
Terra Antartica 10(2): 67-80, 2003.

Young, K. Seale, R.B. Olsson, K. Aislabie, J. Cook, G.M.
Amino acid transport by *Sphingomonas* sp. strain Ant 17 isolated from oil-contaminated Antarctic soil.
Polar biology 26: 560-566, 2003.

Young, E.C. Millar, C.D.
Siblicidal brood reduction in South Polar Skuas.
New Zealand journal of zoology 30: 79-93, 2003.

2004

A

Adam, L.J.
The Geology of Southern White Island, Antarctica.
 B.Sc., University of Otago, 2004.

Ainley, D.G. Ribic, C.A. Ballard, G. Heath, S. Gaffney, I. Karl, B.J. Barton, K.J. Wilson, P.R. Webb, S.
 Geographic structure of Adelie penguin populations: overlap in colony-specific foraging areas.
Ecological monographs 74(1): 159-178, 2004.

Aislabie, J.M. Balks, M.R. Foght, J.M. Waterhouse, E.J.
 Hydrocarbon spills on Antarctic soils: effects and management.
Environmental science and technology 38(5): 1265-1274, 2004.

Ajtić, J. Connor, B.J. Lawrence, B.N. Bodeker, G.E. Hoppel, K.W. Rosenfield, J.E. Heuff, D.N.
 Dilution of the Antarctic Ozone Hole into Southern Midlatitudes, 1998-2000.
Journal of geophysical research 109(D17): D17107, doi: 17110.11029/12003JD004500, 2004.

Anderson, B.M. Hindmarsh, R.C.A. Lawson, W.J.
 A modelling study of the response of Hatherton Glacier to Ross Ice Sheet grounding line retreat.
Global and planetary change 42: 143-153, 2004.

B

Banks, J.C. Paterson, A.M.
 A penguin-chewing louse (Insecta: Phthiraptera) phylogeny derived from morphology.
Invertebrate systematics 18: 89-100, 2004.

Bargagli, R. Skotnicki, M.L. Marri, L. Pepi, M. Mackenzie, A. Agnorelli, C.
 New record of moss and thermophilic bacteria species and physico-chemical properties of
 geothermal soils on the northwest slope of Mt. Melbourne (Antarctica).
Polar biology 27: 423-431, 2004.

Begum, A. Broady, P.A. Fineran, B.A.
 Hot fixation for transmission electron microscopy: applications to coccoid xanthophycean algae.
Algological studies 112: 177-184, 2004.

Berkman, P.A. Cattaneo-Vietti, R. Chiantore, M. Howard-Williams, C.
 Polar emergence and the influence of increased sea-ice extent on the Cenozoic biogeography of
 pectinid molluscs in Antarctic coastal areas.
Deep-sea research II 51: 1839-1855, 2004.



Bertler, N.A.N. Barrett, P.J. Mayewski, P.A. Fogt, R.L. Kreutz, K.J. Shulmeister, J.
El Nino suppresses Antarctic warming.
Geophysical research letters 31: L15207, doi: 10.1029/2004GL020749, 2004.

Bertler, N.A.N. Mayewski, P.A. Barrett, P.J. Sneed, S.B. Handley, M.J. Kreutz, K.J. Monsoonal
circulation of the McMurdo Dry Valleys -Signal from the snow chemistry.
Annals of glaciology 39: 139-145, 2004.

Blanchette, R.A. Held, B.W. Jurgens, J.A. McNew, D.L. Harrington, T.C. Duncan, S.M. Farrell, R.L.
Wood-destroying soft rot fungi in the historic expedition huts of Antarctica.
Applied and environmental microbiology 70(3): 1328-1335, 2004.

Blanchette, R.A. Held, B.W. Jurgens, J.A. Aislabie, J. Duncan, S. Farrell, R.L.
Environmental pollutants from the Scott and Shackleton expeditions during the Heroic Age of
Antarctic exploration.
Polar record 40(213): 143-151, 2004.

Brown, I.M. Wharton, D.A. Millar, R.B.
The influence of temperature on the life history of the Antarctic nematode *Panagrolaimus davidi*.
Nematology 6(6): 883-890, 2004.

C

Coulter, R.F.
Geology of northern White Island, South Victoria Land, Antarctica.
Postgraduate Diploma in Science, University of Otago, 2004.

Cowan, D.A. Arslanoglu, A. Burton, S.G. Baker, G.C. Cameron, R.A. Smith, J.J. Meyer, Q.
Metagenomics, gene discovery and the ideal biocatalyst.
Biochemical Society Transactions 32(2): 298-302, 2004.

Cowan, D.A. Ah Tow, L.
Endangered Antarctic microbial communities.
Annual Review of Microbiology 58: 649-690, 2004.

D

De los Rios, A. Wierzos, J. Sancho, L.G. Ascaso, C.
Exploring the physiological state of continental Antarctic endolithic microorganisms by microscopy.
FEMS microbiology ecology 50: 143-152, 2004.

F

Farrell, R.L. Blanchette, R.A. Auger, M. Duncan, S.M. Held, B.W. Jurgens, J.E. Minasaki, R.
Scientific evaluation of deterioration in historic huts of Ross Island, Antarctica.
in Polar monuments and sites cultural heritage work in the Arctic and Antarctic regions. Oslo:
ICOMOS. 2004.
ISBN 82996891112

Franklin, C.E. Axelsson, M. Sundin, L. Davison, W.
Antarctic fish: Survival and performance at -1.86°C.
in Antarctic Challenges. Historical and current perspectives on Otto Nordenskjöld's Antarctic expedition 1901-1903. Göteborg: Royal Society of Arts and Sciences. 2004. pp.233-244.

H

Harrowfield, D.L.
Archaeology on ice: a review of historical archaeology in Antarctica.
New Zealand journal of archaeology 26: 5-28, 2004.

Hogg, I.D. Hebert, P.D.N.
Biological identification of springtails (*Hexapoda: Collembola*) from the Canadian Arctic, using mitochondrial DNA barcodes.
Canadian journal of zoology 82: 749-754, 2004.

Hood-Hills, S.
Internal features of a single vent structure within a large phreomagnetic vent complex, Allan Hills, southern Victoria Land, Antarctica.
M.Sc., University of Otago, 2004.

Horgan, H. Bannister, S.
Explosive source experiments from a sea-ice platform, McMurdo Sound.
Lower Hutt, New Zealand: Institute of Geological and Nuclear Sciences. 2004.
[Institute of Geological and Nuclear Sciences science report 2004/15]

Hubbard, A. Lawson, W. Anderson, B. Hubbard, B. Blatter, H.
Evidence for sub-glacial ponding across Taylor Glacier, Dry Valleys, Antarctica.
Annals of glaciology 39: 79-84, 2004.

L

Lesser, M.P. Lamare, M.D. Barker, M.F.
Transmission of ultraviolet radiation through the Antarctic annual sea ice and its biological effects on sea urchin embryos.
Limnology and oceanography 49: 1957-1963, 2004.

Lloyd Davies, M.T.
The polar paradise: the glaciation of South Victoria land, Antarctica.
Ph.D., University of Amsterdam, 2004.
ISBN 9076894450

Lloyd Davies, M.T. Fitzsimons, S.J.
Selected case studies of cold-based glaciers, South Victoria Land, Antarctica.
Quaternary Newsletter 104: 30-44, 2004.



m

Maher, P.T.
Exploring visitor experience in the Ross Sea region, Antarctica.
Canadian Antarctic research network newsletter 18: 10-11, 2004.

Meier, A. Goldman, A. Manning, P.S. Stephen, T.M. Rinsland, C.P. Jones, N.B. Wood, S.W.
Improvements to air mass calculations for ground-based infrared measurements. Note.
Journal of quantitative spectroscopy and radiative transfer 83(1): 109-113, 2004.

n

Negri, A.P. Hales, L.T. Battershill, C. Wolff, C. Webster, N.S.
TBT contamination identified in Antarctic marine sediments.
Marine pollution bulletin 48: 1142-1144, 2004.

Negrisoló, E. Maistro, S. Incarbone, M. Moro, I. dalla Valle, L. Broady, P. Andreoli, C.
Morphological convergence characterizes the evolution of Xanthophyceae (Heterokontophyta):
evidence from nuclear SSU rDNA and plastidial *rbcL* genes.
Molecular phylogenetics and evolution 33: 156-170, 2004.

Norkko, A. Thrush, S.F. Cummings, V.J. Funnell, G.A. Schwarz, A.-M. Andrew, N.L. Hawes, I.
Ecological role of *Phyllophra antarctica* drift accumulations in coastal soft-sediment communities
of McMurdo Sound, Antarctica.
Polar biology 27: 482-494, 2004.

R

Ritchie, P.A. Millar, C.D. Gibb, G.C. Baroni, C. Lambert, D.M.
Ancient DNA enables timing of the Pleistocene origin and Holocene expansion of two Adelie
penguin lineages in Antarctica.
Molecular biology and evolution 21(2): 240-248, 2004.

Ryan, K.G. Ralph, P. McMinn, A.
Acclimation of Antarctic bottom-ice algal communities to lowered salinities during melting.
Polar biology 27(11): 679-686, 2004.

s

Schlenso, M. Pannewitz, S. Green, T.G.A. Schroeter, B.
Metabolic recovery of continental Antarctic cryptogams after winter.
Polar biology 27(7): 399-408, 2004.

Schofield, R. Connor, B.J. Kreher, K. Johnston, P.V. Rodgers, C.D.
The retrieval of profile and chemical information from ground-based UV-visible spectroscopic
measurements.
Journal of quantitative spectroscopy and radiative transfer 86: 115-131, 2004.

Sciffer, M.D. Waters, C.L. Menk, F.W.
Propagation of ULF waves through the ionosphere: Inductive effect of oblique magnetic fields.
Annales geophysicae 22(4): 1155-1169, 2004.

Skotnicki, M.L. Mackenzie, A.M. Ninham, J.A. Selkirk, P.M.
High levels of genetic variability in the moss *Ceratodon purpureus* from continental Antarctica, subantarctic Heard and Macquarie Islands, and Australasia.
Polar biology 27 (11): 687-698, 2004.
(available online: <http://dx.doi.org/10.1007/s00300-004-0640-2>)

Souchez, R. Samyn, D. Lorrain, R. Pattyn, F. Fitzsimons, S.
An isotopic model for basal freeze-on associated with subglacial upward flow of pore water.
Geophysical research letters 31(2): L02401, doi:10.1029/2003GL018861, 2004.

T

Tuckey, N. Davison, W.
Mode of locomotion places selective pressures on Antarctic and temperate labriform swimming fish.
Comparative biochemistry and physiology 138: 391-398, 2004.

V

Vacchi, M. La Mesa, M. Dalu, M. Macdonald, J.
Early life stages in the life cycle of Antarctic silverfish, *Pleuragramma antarcticum* in Terra Nova Bay, Ross Sea.
Antarctic science 16(3): 299-305, 2004.

W

Wall, A.M. Balks, M.R. Campbell, D.I. Paetzold, R.F.
Soil moisture measurement in the Ross Sea region of Antarctica using Hydra soil moisture probes.
in Supersoil 2004. 3rd Australian and New Zealand Soils Conference, University of Sydney, Australia, 5-9 Dec 2004. Singh B. (ed). Published on CDROM. Website: www.regional.org.au/au/asssi/. 2004. pp.1-9.

Wall, A.
Use of TDR to determine moisture and temperature regimes in Antarctic soils in Antarctic Soils.
M.Sc., University of Waikato, 2004.

Webster, N.S. Negri, A.P. Munro, M.M.H.G. Battershill, C.N.
Diverse microbial communities inhabit Antarctic sponges.
Environmental microbiology 6(3): 288-300, 2004.

Wharton, D.A. Mutch, J.S. Wilson, P.W. Marshall, C.J. Lim, M.
A simple ice nucleation spectrometer.
CryoLetters 25(5): 335-340, 2004.



Wierzchos, J. de los Rios, A. Sancho, L.G. Ascaso, C.
Viability of endolithic micro-organisms in rocks from the McMurdo Dry Valleys of Antarctica established by confocal and fluorescence microscopy.
Journal of microscopy 216: 57-61, 2004.

Wilson, T.J. Lawver, L.A. Henrys, S. Musaka, S. Horgan, H. Weiderspahn, M. Davis, M. Whittaker, J. Lowe, A. Watson, M.
Cruise report NBP0401 19 January to 18 February 2004 - McMurdo Station to McMurdo Station, Ross Sea, Antarctica.
Lower Hutt, New Zealand: Institute of Geological and Nuclear Sciences. 2004.
[Institute of Geological and Nuclear Sciences science report 2004/03]
ISBN 0478097837-5

Wood, S.W. Batchelor, R.L. Goldman, A. Rinsland, C.P. Connor, B.J. Murcay, F.J. Stephen, T.M. Heuff, D.N.
Ground-based nitric acid measurements at Arrival Heights, Antarctica, using solar and lunar Fourier transform infrared observations.
Journal of geophysical research 109(D183707) doi: 10.1029/2004JD004665, 2004.

Wynyard, M.J.
Geology of the Cocks Glacier area, Antarctica. A study of neo-Proterozoic metamorphism, deformation and magmatism during the Ross Orogeny in south Victoria Land.
M.Sc., University of Otago, 2004.

2005

A

Ables, S.T. Fraser, B.J.
 Observing the open-closed boundary using cusp-latitude magnetometers.
Geophysical research letters 32, L10104 doi: 10.1029/2005GL022824, 2005.

Ainley, D.G. Clarke, E.D. Arrigo, K. Fraser, W.R. Kato, A. Barton, K.J. Wilson, P.R.
 Decadal-scale changes in the climate and biota of the Pacific sector of the Southern Ocean, 1950s to the 1990s.
Antarctic science 17(2): 171-182, 2005.

Ainley, D.G. Ballard, G. Karl, B.J. Dugger, K.M.
 Leopard seal predation rates at penguin colonies of different size.
Antarctic science 17(3): 335-340, 2005.

Allan, W. Lowe, D.C. Gomez, A.J. Struthers, H. Brailsford, G.W.
 Interannual variation of ¹³C in tropospheric methane: implications for possible atomic chlorine sink in the marine boundary layer.
Journal of geophysical research 110: D11306, 2005.

B

Banks, J.C. Paterson, A.M.
 Multi-host parasite species in cophylogenetic studies.
International Journal of Oarasitology 35: 741-746, 2005.

Batchelor, R.L.
Moonlight measurements of stratospheric trace gases during the 2003 Antarctic winter.
 Ph.D., Canterbury University, 2005.

Baumgaertner, A.J.G. McDonald, A.J. Fraser, G.J. Plank, G.E.
 Long-term observations of mean winds and tides in the upper mesosphere and lower thermosphere above Scott Base, Antarctica.
Journal of atmospheric and solar-terrestrial physics 67: 1480-1496, 2005.

Berkman, P.A. Cattaneo-Vietti, R. Chiantore, M. Howard-Williams, C. Cummings, V. Kvitek, R.
 Marine research in the Latitudinal Gradient Project along Victoria Land, Antarctica.
Scientia Marina 69: 57-63, 2005.

Bertler, N.A.N. Barrett, P.J. Mayewski, P.A. Fogt, R.L. Kreutz, K.J. Shulmeister, J.
 Reply to comment by Doran et al. on El Nino suppresses Antarctic warming.
Geophysical research letters 32: L07707, doi: 10.1029/2005GL022595, 2005.



Bertler, N.A.N. Barrett, P.J. Mayewski, P.A. Sneed, S.B. Naish, T.R. Morgenstern, U.
Solar forcing recorded by aerosol concentrations in coastal Antarctic glacier ice, McMurdo Dry
Valleys.

Annals of glaciology 41: 52-56, 2005.

Bertler, N.A.N. Mayewski, P.A. Aristarain, A. Barrett, P. Becagli, S. Bernardo, R. Bo, S. Xiao, C.
Curran, M. Qin, D. et al.

Antarctic Snow Chemistry.

Annals of glaciology 41: 167-179, 2005.

Brabyn, L. Green, T.G.A. Beard, C. Seppelt, R.

GIS goes nano: Vegetation studies in Victoria Land, Antarctica.

New Zealand geographer 61(2): 139-147, 2005.

Broady, P.A.

The distribution of terrestrial and hydro-terrestrial algal associations at three contrasting locations
in southern Victoria Land, Antarctica.

Algological studies 118: 95-112, 2005.

C

Cockrem, J.F.

Conservation and behavioral neuroendocrinology.

Hormones and behavior 48: 492-501, 2005.

Collins, K.T. Rogers, T.L. Terhune, J.M. McGreevy, P.D. Wheatley, K.E. Harcourt, R.G.

Individual variation of in-air female pup contact calls in Weddell seals, *Leptonychotes weddellii*.

Behaviour 142: 167-189, 2005.

Cowan, D.A. Ah Tow, L. Smith, J.J. Cary, C. Moodley, K.

Microbial molecular ecology of continental Antarctic biotopes.

in Antarctica: Global Laboratory for Scientific and International Collaboration. Tan A. Yasin Z.

Mansor M. (eds). Kuala Lumpur: Academy of Sciences Malaysia. 2005. pp.113-118.

Cowan, D.A. Ah Tow, L.

Dissemination and survival of non-indigenous bacterial genomes in pristine Antarctic
environments.

Extremophiles 9(5): 385-389, 2005.

Cummings, V.

Life beneath the ice.

Water and atmosphere 13(3): 24-25, 2005.

D

Davison, W.
Antarctic fish skeletal muscle and locomotion.
in The Physiology of Polar Fishes, 22. Farrell A. Steffensen J. (eds). New York: Academic Press.
2005. pp.317-349.
ISBN 012350446-5

De los Rios, A. Sancho, L.G. Grube, M. Wierzos, J. Ascaso, C.
Endolithic growth of two *Lecidea* lichens in granite from continental Antarctica detected by
molecular and microscopy techniques.
New phytologist 165: 181-190, 2005.

Dickinson, W. Bleakley, N.
Facies control on diagenesis in frozen sediments: The Sirius Group, Table Mountain and Mount
Feather, Dry Valleys, Antarctica.
Terra Antartica 12(1): 25-34, 2005.

Dodds, K.J. Yusoff, K.
Settlement and unsettlement in Aotearoa/New Zealand and Antarctica.
Polar record 41(217): 141-155, 2005.

Downer, J. Haskell, T.G.
Ice floe kinematics in the MIZ using GPS and accelerometers.
Annals of glaciology 33: 345-349, 2005.

E

Eisert, R. Oftedal, O.T. Lever, M. Ramdohr, S. Breier, B.H. Barrell, G.K.
Detection of food intake in a marine mammal using marine osmolytes and their analogues as
dietary biomarkers.
Marine ecology progress series 300: 213-228, 2005.

Elliott, C.
Antarctica, Scott Base and environs.
New Zealand geographer 61: 68-76, 2005.

Evans, C.W. Cziko, P. Cheng, C.C. Devries, A.L.
Spawning behaviour and early development in the naked dragonfish *Gymnodraco acuticeps*.
Antarctic science 17(3): 319-327, 2005.

F

Farrell, R.L. Duncan, S.M.
Uniqueness of Antarctica and potential for commercial success.
in Antarctic Bioprospecting. Hemmings A. Rogan-Finnemore M. (eds). Christchurch: University
of Canterbury. 2005. pp.10-40.
[Gateway Antarctica Special Publication Series, No. 0501]
ISBN 0-476-01647-9



Fitzsimons, S.J.
Mechanical behaviour and structure of the debris-rich basal ice layer.
in Glacier Science and Environmental Change. Knight P.G.(ed). Oxford: Blackwell. 2005. pp.251-259.

Franz, P.
The isotope composition of water vapour in the upper troposphere/lower stratosphere region: modeling, analysis and sampling.
Ph.D. Ruperto-Carola University of Heidelberg, 2005.

Fraser, G.J.
The antecedents and subsequent development of scientific radar in New Zealand.
Journal of atmospheric and solar-terrestrial physics 67: 1411-1418, 2005.

Friess, U. Kreher, K. Johnston, P.V. Platt, U.
Ground-based DOAS measurements of stratospheric trace gases at two Antarctic stations during the 2002 ozone hole period.
Journal of atmospheric science 63(3): 765-777, 2005.

G

Gordon, S.
The Latitudinal Gradient Project: Contributing to RiSCC.
in: Proceedings of the 5th RiSCC Workshop. Cannone N. Guglielmin M. (eds). Siena, Italy: Terra Antartica Publications. 2005. pp.27-32.
[Report no. 11]

Green, T.G.A. Kulle, D. Pannewitz, S. Sancho, L.G. Schroeter, B.
UV-A protection in mosses growing in continental Antarctica.
Polar biology 28(11): 822-827, 2005.
(available online: <http://dx.doi.org/10.1007/s00300-005-0011-7>)

H

Healy, M.
The physical and geochemical properties of glacial meltwater ponds in the Dry Valleys, Antarctica.
M.Sc., University of Auckland, 2005.

Held, B.W. Jurgens, J.A. Arenz, B.E. Duncan, S.M. Farrell, R.L. Blanchette, R.A.
Environmental factors influencing microbial growth inside the historic expedition huts of Ross Island, Antarctica.
International biodeterioration and biodegradation 55: 45-53, 2005.

Hopkins, D.W. Elberling, B. Greenfield, L.G. Gregorich, E.G. Novis, P. O'Donnell, A.G. Sparrow, A.D.
Soil micro-organisms in Antarctic dry valleys: resource supply and utilization.
in SGM Symposium 65: Micro-organisms and Earth Systems Advances in Geomicrobiology. Gadd G.M. Semple K.T. Lappin-Scott H.M. (eds). Cambridge: Cambridge University Press. 2005. pp.71-84.

Horgan, H. Naish, T. Bannister, S. Balfour, N. Wilson, G.
Seismic stratigraphy of the Plio-Pleistocene Ross Island flexural moat-fill: a prognosis for ANDRILL Program drilling beneath McMurdo-Ross Ice Shelf.
Global and planetary change 25: 83-97, 2005.

Huck, P.E. McDonald, A.J. Bodeker, G.E. Struthers, H.
Interannual variability in ozone depletion controlled by planetary waves and polar temperature.
Geophysical research letters 32(13) doi: 10.1029/2005GL022943, 2005.

J

Jungblut, A.D. Hawes, I. Montford, D. Hitzfeld, B. Dietrich, D.R. Burns, P. Neilan, A.
Diversity within cyanobacterial mat communities in variable salinity meltwater ponds of McMurdo Ice Shelf, Antarctica.
Environmental microbiology 7(4): 519-529, 2005.

L

Lowe, C.J. Seebacher, F. Davison, W.
Thermal sensitivity of heart rate and insensitivity of blood pressure in the Antarctic nototheniid *Pagothenia borchgrevinki*.
Journal of comparative physiology B 175: 97-105, 2005.

Lowe, C.J.
The effect of acute and chronic elevation of temperature on aspects of the physiology of Antarctic fishes.
Ph.D., University of Canterbury, 2005.

Lowe, C.J. Davison, W.
Plasma osmolarity, glucose concentration and erythrocyte responses of two Antarctic nototheniid fishes to acute and chronic thermal change.
Journal of fish biology 67: 752-766, 2005.

m

Mager, S.
A compositional approach to understanding the formation of basal ice in Antarctic glaciers.
Ph.D., University of Otago, 2005.

Manning, M.R. Lowe, D.C. Moss, R.C. Bodeker, G.E. Allan, W.
Short-term variations in the oxidizing power of the atmosphere.
Nature 436: 1001-1004, 2005.

Martin, A.
Antarctic bacteria, sea ice ecosystem dynamics, and global climate change.
M.Sc., Victoria University of Wellington, 2005.



Mayewski, P.A. Frezzotti, M. Bertler, N.A.N. van Ommen, T. Hamilton, G.S. Jacka, T.H. Welch, B. Frey, M. Qin, D. Ren, J. et al.

The International Trans-Antarctic Scientific Expedition (ITASE) - An Overview.

Annals of glaciology 41: 10-13, 2005.

McGaughan, A.

Genetic diversity and phylogeography of New Zealand and Antarctic arthropods.

M.Sc., University of Waikato, 2005.

Moorhead, D. Schmeling, J. Hawes, I.

Modelling the contribution of benthic microbial mats to net primary production in Lake Hoare, McMurdo Dry Valleys.

Antarctic science 17(1): 33-45, 2005.

Mountfort, D.O. Holland, P. Sprosen, J.

Method for detecting classes of micro-cystins by combination of protein phosphatase inhibition assay and ELISA: comparison with LC-MS.

Toxicon 45: 199-204, 2005.

n

Niven, R.K. Looi, S. Burgess, J.S. Harrowfield, D.L. Khalili, N. Chattopadhyay, G.

Preliminary Soil Contamination Investigation, "Mirror Peninsula", Larsemann Hills, East Antarctica. I. Total Petroleum Hydrocarbons (Diesel Range Organics).

UNSW@ADFA - School of Aerospace, Civil and Mechanical Engineering, 2005.

ISBN 0975775324

Norkko, J.

Indicators of short-term growth in bivalves: detecting environmental change across ecological scales.

Ph.D., University of Auckland, 2005.

Norkko, J. Norkko, A. Thrush, S.F. Cummings, V.J.

Detecting growth under environmental extremes: Spatial and temporal patterns in nucleic acid ratios in two Antarctic bivalves.

Journal of experimental marine biology and ecology 326: 144-156, 2005.

o

Orwin, J.F.

Frozen dunes: an indicator of climate variability, McMurdo Dry Valleys.

Canadian Antarctic research network newsletter 19: 4, 2005.

p

Pannewitz, S. Green, T.G.A. Mayesk, K. Schlenz, M. Seppelt, R. Sancho, L.G. Türk, R. Schroeter, B.

Photosynthetic responses of three common mosses from continental Antarctica.

Antarctic science 17(3): 341-352, 2005.

Pannowitz, S. Maysek, K. Schlenz, M. Seppelt, R.D. Sancho, L. Schroeter, B. Türk, Green, T.G.A.
The photosynthetic response of bryophytes to CO₂ concentrations, PPFD, temperature and water
content measured at coastal sites, Ross Sea, Antarctica.

Polar biology 26: 545-551, 2005.

Patterson, N.G. Bertler, N.A.N. Naish, T.R. Morgenstern, U.
ENSO variability in the deuterium excess record of a coastal Antarctic ice core from the McMurdo
Dry Valleys, Victoria Land.

Annals of glaciology 41: 140-146, 2005.

R

Ralph, P.J. McMinn, A. Ryan, K.G. Ashworth, C.
Short-term effect of temperature on the photokinetics of microalgae from the surface layers of
Antarctic pack ice.

Journal of phycology 41: 763-769, 2005.

Reubi, O. Ross, P.-S. White, J.D.L.
Debris avalanche deposits associated with large igneous province volcanism: an example from the
Mawson Formation, central Allan Hills, Antarctica.

Geological Society of America bulletin 117(11/12): 1615-1628, 2005.

Riedel, K. Allan, W. Weller, R. Schrems, O.
Discrepancies between formaldehyde measurements and methane oxidation model predictions in
the Antarctic troposphere: An assessment of other possible formaldehyde sources.

Journal of geophysical research 110: D15308, 2005.

Ripeka Mercier, O. Hunter, M.W. Dykstra, R. Haskell, T.G. Callaghan, P.T.
Brine diffusion in first year sea ice measured by Earth's field PGSE-NMR.

Cold regions science and technology 42: 96-105, 2005.

Ross, P.-S. Ukstins Peate, I. McClintock, M.K. Xu, Y.G. Skilling, I.P. White, J.D.L. Houghton, B.F.
Mafic volcanoclastic deposits in flood basalt provinces: A review.

Journal of volcanology and geothermal research 145: 281-314, 2005.

Ross, P.-S.
Volcanology of the Mawson Formation at Coombs and Allan Hills, South Victoria Land, Antarctica.
Ph.D., University of Otago, 2005.

Ross, P.-S. White, J.D.L.
Unusually large clastic dykes formed by elutriation of a poorly sorted, coarser-grained source.
Journal of the Geological Society of London 162: 579-582, 2005.



Ross, P.-S. White, J.D.L.
Mafic, large-volume, pyroclastic density current deposits from phreatomagmatic eruptions in the Ferrar large igneous province.
Journal of geology 113: 627-649, 2005.

Sänger, A.M. Davison, W. Eggington, S.
Muscle fine structure reflects ecotype in two nototheniids.
Journal of fish biology 66: 1371-1386, 2005.

Saul, D.J. Aislabie, J.M. Brown, C.E. Harris, L. Foght, J.M.
Hydrocarbon contamination changes the bacterial diversity of soil from around Scott Base, Antarctica.
FEMS microbiology ecology 53: 141-155, 2005.

Savage, J.E.
Provenance analysis of the Sperm Bluff Formation, southern Victoria Land, Antarctica.
M.Sc., University of Canterbury, 2005.

Schwarz, A.-M. Hawes, I. Andrew, N. Mercer, S. Cummings, V. Thrush, S.
Primary production potential of non-geniculate coralline algae at Cape Evans, Ross Sea, Antarctica.
Marine ecology progress series 294: 131-140, 2005.

Seebacher, F. Davison, W. Lowe, C.J. Franklin, C.E.
A falsification of the thermal specialization paradigm: compensation for elevated temperatures in Antarctic fishes.
Biology letters 1: 151-154, 2005.

Sewell, M.A.
Examination of the meroplankton community in the south-western Ross Sea, Antarctica, using a collapsible plankton net.
Polar biology 28: 119-131, 2005.

Shepherd, L.D. Millar, C.D. Ballard, G. Ainley, D.G. Wilson, P.R. Haynes, G.D. Baroni, C. Lambert, D.M.
Microevolution and mega-icebergs in the Antarctic.
Proceedings of the National Academy of Sciences USA 102(46): 16717-16722, 2005.

Skotnicki, M.L. Mackenzie, A.M. Clements, M.A. Selkirk, P.M.
DNA sequencing and genetic diversity of the 18S-26S nuclear ribosomal internal transcribed spacers (ITS) in nine Antarctic moss species.
Antarctic science 17(3): 377-386, 2005.

Smith, P.J. Gaffney, P.M.

Low genetic diversity in the Antarctic toothfish (*Dissostichus mawsoni*) observed with mitochondrial and intron DNA markers.

CCAMLR Science 12: 43-51, 2005.

Stern, T.A. Baxter, A.K. Barrett, P.J.

Isostatic rebound due to glacial erosion within the Transantarctic Mountains.

Geology 33(3): 221-224, 2005.

W

Wells, R.M.G. McNeill, H. Macdonald, J.A.

Fish hypnosis: induction of an atonic immobility reflex.

Marine and freshwater behaviour and psychology 38: 71-78, 2005.

Wharton, D.A. Barrett, J. Goodall, G. Marshall, C.J. Ramløv, H.

Ice-active proteins from the Antarctic nematode *Panagrolaimus davidi*.

Cryobiology 51: 198-207, 2005.

Wharton, D.A. Downes, M.F. Goodall, G. Marshall, C.J.

Freezing and cryoprotective dehydration in an Antarctic nematode (*Panagrolaimus davidi*) visualised using a freeze substitution technique.

Cryobiology 50: 21-28, 2005.

White, J.D.L. Thordarson, T. McClintock, M. Ross, P.-S.

Cracking the lid - dike emplacement above large sills of the Ferrar Province, Antarctica.

Eos Transactions AGU 86(52): Abstract V23A-0690, 2005.

Wierzchos, J. Sancho, L.G. Ascaso, C.

Biominingalization of endolithic microbes in rocks from the McMurdo Dry Valleys of Antarctica: implications for microbial fossil formation and their detection.

Environmental microbiology 7(4): 566-575, 2005.



Antarctica New Zealand

Private Bag 4745
Administration Building
International Antarctic Centre
38 Orchard Road
Christchurch
New Zealand

Tel: (64) 3 358 0200

Fax: (64) 3 358 0211

Email info@antarcticanz.govt.nz

www.antarcticanz.govt.nz



