

British Antarctic Survey publications 2003

Publications are listed by programme

Q3 programmes

Signals in Antarctica of Past Global Changes

Refereed research papers 2003 listed in ISI database

** = NERC employees who are not BAS staff

++ = collaborators in UK universities

%% = collaborators in the UK non-university public sector

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BARNES P.R.F. 2003. Comment on "Grain boundary ridge on sintered bonds between ice crystals" [J. Appl. Phys., 90, 5782 (2001)]. *Journal of Applied Physics*, **93**, No. 1, 783-785.

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BORY A.J.-M., BISCAYE P.E.##, PIOTROWSKI A.M.## & STEFFENSEN J.P.## 2003. Regional variability of ice core dust composition and provenance in Greenland. *Geochemistry, Geophysics, Geosystems*, **4**, No. 12 (2003), 1107, doi:10.1029/2003GC000627, 8p.

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JONES A.E. & WOLFF E.W. 2003. An analysis of the oxidation potential of the South Pole boundary layer and the influence of stratospheric ozone depletion. *Journal of Geophysical Research*, **108**, No. D18, 4565, doi:10.1029/2003JD003379 (Paper ACH 1 in this issue, 7p.)

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Ó COFAIGH C.++, TAYLOR J.++, DOWDESWELL J.A.++ & **PUDSEY C.J.** 2003. Palaeo-ice streams, trough mouth fans and high-latitude continental slope sedimentation. *Boreas*, **32**, 37-55.

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SABBE K.##, VERLEYEN E.##, **HODGSON D.A.**, VANHOUTTE K.## & VYVERMAN W.## 2003. Benthic diatom flora of freshwater and saline lakes in the Larsemann Hills and Rauer Islands (East Antarctica). *Antarctic Science*, **15**, No. 2, 227-248.

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WOLFF E.W. 2003. Whither Antarctic sea ice? *Science*, **302**, No. 5648 , 1164.

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Books chapters

LEAVITT P.R., HODGSON D.A. & PIENITZ, R. 2003. Past UVR environments and impacts in lakes. (In Helbling, E. W. & Zagarese, H., eds. UV effects in aquatic organisms and ecosystems. *Comprehensive series in photochemistry and photobiology*, vol. 1. Cambridge, Royal Society of Chemistry, 509-545).

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Global Interactions of the Antarctic Ice Sheet

Refereed research papers 2003 listed in ISI database

** = NERC employees who are not BAS staff

++ = collaborators in UK universities

%% = collaborators in the UK non-university public sector

= overseas collaborators

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AÐALGEIRSDÓTTIR G.##, **GUDMUNDSSON G.H.** & BJÖRNSSON H.## 2003. A regression model for the mass-balance distribution of the Vatnajökull ice cap Iceland. *Annals of Glaciology*, **37**, 189-193.

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HOLLAND D.M.##, JACOBS S.S.## & JENKINS A. 2003. Modelling the ocean circulation beneath the Ross Ice Shelf. *Antarctic Science*, **15**, No. 1, 13-23.

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RIPPIN D.M.++, BAMBER J.L.++, SIEGERT M.J.++, VAUGHAN D.G. & CORR H.F.J. 2003. Basal topography and ice flow in the Bailey/Slessor region of East Antarctica. *Journal of Geophysical Research*, **108**, No. F1, 6008, doi:10.1029/2003JF000039, 11p.

SIEGERT M.J.++, HINDMARSH R.C.A. & HAMILTON G.S.## 2003. Evidence for a large surface ablation zone in central East Antarctica during the last Ice Age. *Quaternary Research*, **59**, No. 1, 114-121.

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SUGIYAMA S.##, GUDMUNDSSON G.H. & HELBING J.## 2003. Numerical investigation of the effects of temporal variations in basal lubrication on englacial strain-rate distribution. *Annals of Glaciology*, **37**, 49-54.

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Books edited

WHITE J.D.L., SMELLIE J.L. & CLAGUE D.A., eds. 2003. Explosive subaqueous volcanism. *Geophysical monograph*, 140. Washington, D.C., American Geophysical Union, 379p.

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sediments. *Geological Society special publication*, 211. London, Geological Society, 127-142.)

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VAUGHAN D.G. 2003. Review of *The skeptical environmentalist: measuring the real state of the world* by B. Lomborg. Cambridge, Cambridge University Press, 2001. *Antarctic Science*, **15**, No. 1, 165-166.

VAUGHAN D.G. 2003. Review of *Tropical glaciers* by G. Kaser and H. Osmaston. Cambridge University Press, 2002. *Journal of Glaciology*, **49**, No. 165, 323.

Antarctic Climate Processes

Refereed research papers 2003 listed in ISI database

** = NERC employees who are not BAS staff

++ = collaborators in UK universities

%% = collaborators in the UK non-university public sector

= overseas collaborators

ANDERSON P.S. 2003. Fine-scale structure observed in a stable atmospheric boundary layer by SODAR and kite-borne tethered sonde. *Boundary-Layer Meteorology*, **107**, No. 2, 323-351.

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KING J.C. 2003. Validation of ECMWF sea level pressure analyses over the Bellingshausen Sea, Antarctica. *Weather and Forecasting*, **18**, 536-540.

KING J.C. & COMISO J.C.## 2003. The spatial coherence of interannual temperature variations in the Antarctic Peninsula. *Geophysical Research Letters*, **30**, No. 2, 1040, doi:10.1029/GL015580 (Paper 12 in this issue, 4p.)

KRAHMANN G.##, VISBECK M.##, SMETHIE W.## and 14 others## (including **I.A. RENFREW** of BAS) 2003. The Labrador Sea Deep Convection Experiment data collection. *Geochemistry, Geophysics, Geosystems*, **4**, No. 10, 1091, doi:10.1029/2003GC000536, 10p.

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PENDLEBURY S.F.##, ADAMS N.D.##, HART T.L.## & **TURNER J.** 2003. Numerical weather prediction model performance over high southern latitudes. *Monthly Weather Review*, **131**, No. 2, 335-353.

TURNER J., HARANGOZO S.A., KING J.C., CONNOLLEY W.M., LACHLAN-COPE T.A. & MARSHALL G.J. 2003. An exceptional winter sea-ice retreat/advance in the Bellingshausen Sea, Antarctica. *Atmosphere-Ocean*, **41**, No. 2, 171-185.

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RENFREW I.A. 2003. Review of *An introduction to atmospheric thermodynamics* by A.A. Tsonis. Cambridge University Press, 2002. *Weather*, **58**, No. 1, 43-44.

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Magnetic Reconnection, Substorms and their Consequences

Refereed research papers 2003 listed in ISI database

** = NERC employees who are not BAS staff
++ = collaborators in UK universities
%% = collaborators in the UK non-university public sector
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Book chapters

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Geospace Atmosphere Transfer Functions

Refereed research papers 2003 listed in ISI database

** = NERC employees who are not BAS staff

++ = collaborators in UK universities

%% = collaborators in the UK non-university public sector

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