

British Antarctic Survey publications 2007

Publications are listed by programme

** = NERC employees who are not BAS staff
++ = collaborators in UK universities
%% = collaborators in the UK non-university public sector
= overseas collaborators
\$\$ = commercial sector collaborators

Q4 Programmes

GEACEP: Greenhouse to Icehouse. Evolution of the Antarctic Cryosphere and Palaeoenvironment

Refereed research papers 2007 listed in ISI database

FRANCIS J.E.++, **HAYWOOD A.M.**, ASHWORTH A.C.## & VALDES P.J.++ 2007. Tundra environments in the Neogene Sirius Group, Antarctica: evidence from the geological record and coupled atmosphere-vegetation models. *Journal of the Geological Society*, **164**, Pt. 2, 317-322.

GLADSTONE R.++, FLECKER R.++, VALDES P.J.++, **LUNT D.J.** & MARKWICK P.J.++ 2007. The Mediterranean hydrologic budget from a Late Miocene global climate simulation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **251**, No. 2, 254-267.

HAYWOOD A.M., VALDES P.J.++ & **PECK V.L.** 2007. A permanent El Niño-like state during the Pliocene? *Paleoceanography*, **22**, No. 1, PA1213, doi:10.1029/2006PA001323, 21p.

JOHNSON J.S. & **SMELLIE J.L.** 2007. Zeolite compositions as proxies for eruptive palaeoenvironment. *Geochemistry, Geophysics, Geosystems*, **8**, No. 3, Q03009, doi:10.1029/2006GC001450, 19p.

LUNT D.J., ROSS I.++, HOPLEY P.J.++ & VALDES P.J.++ 2007. Modelling Late Oligocene C₄ grasses and climate. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **251**, No. 2, 239-253.

WILLIAMS M.++, **HAYWOOD A.M.**, VAUTRAVERS M., SELLWOOD B.W.++, **HILLENBRAND C.-D.**, WILKINSON I.P.** & MILLER C.G.%% 2007. Relative effect of taphonomy on calcification temperature estimates from fossil planktonic foraminifera. *Geobios*, **40**, No. 6, 861-874.

Refereed research papers 2007 NOT listed in ISI database

ARMADILLO E.##, **FERRACCIOLI F.**, ZUNINO A.## & BOZZO E.## 2007. Aeromagnetic anomaly patterns reveal buried faults along the eastern margin of the Wilkes Subglacial Basin (East Antarctica). (In Cooper, A.K., Raymond, C.R. & ISAES Editorial Team, eds. Antarctica: a keystone in a changing world. Online

proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 - September 1 2007. *U.S. Geological Survey Open-File Report*, 2007-1047. U.S. Geological Survey, National Academy Press, Short Research Paper 091, doi:10.3133/of2007-1047.srp091, 4p.)

ARMADILLO E.##, **FERRACCIOLI F.**, ZUNINO A.##, BOZZO E.##, ROCCHI S.## & ARMIENTI P.## 2007. Aeromagnetic search for Cenozoic magmatism over the Admiralty Mountains Block (East Antarctica). (In Cooper, A.K., Raymond, C.R. & ISAES Editorial Team, eds. Antarctica: a keystone in a changing world. Online proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 - September 1 2007. *U.S. Geological Survey Open-File Report*, 2007-1047. U.S. Geological Survey, National Academy Press, Short Research Paper 075, doi:10.3133/of2007-1047.srp075, 4p.)

CORR H.F.J., FERRACCIOLI F., FREARSON N., JORDAN T., ROBINSON C., ARMADILLO E.##, CANEVA G.##, BOZZO E.## & TABACCO I.## 2007. Airborne radio-echo sounding of the Wilkes Subglacial Basin, the Transantarctic Mountains and the Dome C region. *Terra Antartica Reports*, No. 13, 55-63.

FERRACCIOLI F., JORDAN T., ARMADILLO E.##, BOZZO E.##, **CORR H.F.J.**, CANEVA G.##, **ROBINSON C., FREARSON N. & TABACCO I.##** 2007. Collaborative aerogeophysical campaign targets the Wilkes Subglacial Basin the Transantarctic Mountains and the Dome C region. *Terra Antartica Reports*, No. 13, 1-36.

JORDAN T., FERRACCIOLI F., CORR H.F.J., ROBINSON C., CANEVA G.##, ARMADILLO E.##, BOZZO E.## & **FREARSON N.** 2007. Linking the Wilkes Subglacial Basin the Transantarctic Mountains and the Ross Sea with a new airborne gravity survey. *Terra Antartica Reports*, No. 13, 37-54.

JORDAN T.A., FERRACCIOLI F., JONES P.C., SMELLIE J.L., GHIDELLA M.E.##, **CORR H.F.J. & ZAKRAJSEK A.F.##** 2007. High-resolution airborne gravity imaging over James Ross Island (West Antarctica). (In Cooper A.K. Raymond C.R. & ISAES Editorial Team eds. Antarctica: a keystone in a changing world. Online proceedings of the 10th International Symposium on Antarctic Earth Sciences Santa Barbara California August 26 - September 1 2007. *U.S. Geological Survey Open-File Report* 2007-1047. U.S. Geological Survey National Academy Press Short Research Paper 060 doi:10.3133/of2007-1047.srp060 4p.)

SMELLIE J.L., ROCCHI S.## & ARMIENTI P.## 2007. Joint Italian-British petrological-palaeoenvironmental investigations of Neogene volcanic sequences in northern Victoria Land, 2005-06. *Terra Antartica Reports*, No. 13, 103-110.

Books edited and other edited volumes

BOZZO E.## & **FERRACCIOLI F.**, eds. 2007. The Italian-British Antarctic geophysical and geophysical survey in northern Victoria Land 2005-06 - towards the International Polar Year 2007-08. *Terra antartica reports*, no. 13. Siena, Terra Antartica Publication, vi 110p.

CLARKE G.K.C.## & SMELLIE J.L., eds. 2007. Papers from the International Symposium on Earth and Planetary Ice-Volcano Interactions, held in Reykjavik, Iceland, June 2006. *Annals of Glaciology*, **45**, 202p.

Book chapters

HAYWOOD A.M., VALDES P.J.++, **HILL D.J.** & WILLIAMS M.++ 2007. The mid-Pliocene warm period: a test-bed for integrating data and models. (In Williams, M., Haywood, A.M., Gregory, F.J. & Schmidt, D.N., eds. Deep-time perspectives on climate change: marrying the signal from computer models and biological proxies. *Micropalaeontological Society Special Publications*. London, Geological Society, 443–458.)

HILL D.J., **HAYWOOD A.M.**, **HINDMARSH R.C.A.** & VALDES P.J.++ 2007. Characterizing ice sheets during the Pliocene: evidence from data and models. (In Williams, M., Haywood, A.M., Gregory, F.J. & Schmidt, D.N., eds. Deep-time perspectives on climate change: marrying the signal from computer models and biological proxies. *Micropalaeontological Society Special Publications*. London, Geological Society, 517–538.)

SMELLIE J.L. 2007. Bransfield Strait and South Shetland Islands, geology of. (In: Riffenburgh, B., ed. *Encyclopedia of the Antarctic. Vol. 1: A-K*. New York, Routledge, 177-179.)

SMELLIE J.L. 2007. South Sandwich Islands. (In: Riffenburgh, B., ed. *Encyclopedia of the Antarctic. Vol. 2: L-Z*. New York, Routledge, 921-922.)

SMELLIE J.L. 2007. South Shetland Islands. (In: Riffenburgh, B., ed. *Encyclopedia of the Antarctic. Vol. 2: L-Z*. New York, Routledge, 922-926.)

VAUGHAN A.P.M. 2007. Climate and geology – a Phanerozoic perspective. (In Williams, M., Haywood, A.M., Gregory, F.J. & Schmidt, D.N., eds. Deep-time perspectives on climate change: marrying the signal from computer models and biological proxies. *Micropalaeontological Society Special Publications*. London, Geological Society, 5–60.)

Unrefereed publications

McDONALD C.M.++, FRANCIS J.E.++, COMPTON S.G.++, HAYWOOD A.M.++, ASHWORTH A.C.##, HINOJOSA L.F.## & **SMELLIE J.L.** 2007. Herbivory in Antarctic fossil forests: evolutionary and palaeoclimatic significance. (In Cooper, A.K., Raymond, C.R. & ISAES Editorial Team, eds. *Antarctica: a keystone in a changing world*. Online proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 - September 1 2007. *U.S. Geological Survey Open-File Report*, 2007-1047. U.S. Geological Survey, National Academy Press, Extended abstract 059, 4p.)

NELSON A.E., **SMELLIE J.L.**, **HAMBREY M.J.++**, **WILLIAMS M.++**, **SALZMANN U.** & **VAUTRAVERS M.J.** 2007. Neogene environmental history deduced from glacial sediments on James Ross Island, northern Antarctic

Peninsula. (In Cooper, A.K., Raymond, C.R. & ISAES Editorial Team, eds. Antarctica: a keystone in a changing world. Online proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 - September 1 2007. *U.S. Geological Survey Open-File Report*, 2007-1047. U.S. Geological Survey, National Academy Press, Extended abstract 058, 4p.)

SMELLIE J.L., NELSON A.E., JOHNSON J.S., McINTOSH W.C.##, ESSER R.##, GUDMUNDSSON M.T.##, HAMBREY M.J.++ & VAN WYK DE VRIES B.## 2007. Six million years of environmental (glacial - interglacial) conditions preserved in volcanic lithofacies of the James Ross Island Volcanic Group, northern Antarctic Peninsula. (In Cooper, A.K., Raymond, C.R. & ISAES Editorial Team, eds. Antarctica: a keystone in a changing world. Online proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 - September 1 2007. *U.S. Geological Survey Open-File Report*, 2007-1047. U.S. Geological Survey, National Academy Press, Extended abstract 208, 4p.)

CACHE: Climate and Chemistry: Forcings and Phasings in the Earth System

Refereed research papers 2007 listed in ISI database

ABRAM N.J., MULVANEY R., WOLFF E.W. & MUDELSEE M.## 2007. Ice core records as sea ice proxies: an evaluation from the Weddell Sea region of Antarctica. *Journal of Geophysical Research*, **112**, No. D15, D15101, doi:10.1029/2006JD008139, 13p.

ANASTASIO C.##, GALBAVY E.S.##, **HUTTERLI M.A.**, BURKHART J.F.## & FRIEL D.K.## 2007. Photoformation of hydroxyl radical on snow grains at Summit, Greenland. *Atmospheric Environment*, **41**, No. 24, 5110-5121.

ASSONOV S.S.##, BRENNINKMEIJER C.A.M.##, JÖCKEL P.##, **MULVANEY R.**, BERNARD S.## & CHAPPELLAZ J.## 2007. Evidence for a CO increase in the SH during 20th century based on firn air samples from Berkner Island, Antarctica. *Atmospheric Chemistry and Physics*, **7**, No. 2, 295-308.

CHEN G.##, HUEY L.G.##, CRAWFORD J.H.##, OLSON J.R.##, **HUTTERLI M.A.**, SJOSTEDT S.J.##, TANNER D.J.##, DIBB J.E.##, LEFER B.##, BLAKE N.J.##, DAVIS D.## & STOHL A.## 2007. An assessment of the polar HO_x photochemical budget based on 2003 Summit Greenland field observations. *Atmospheric Environment*, **41**, No. 36, 7806-7820.

FISCHER H.##, FUNDEL F.##, RUTH U.##, TWARLOH B.##, WEGNER A.##, UDISTI R.##, BECAGLI S.##, CASTELLANO E.##, MORGANTI A.##, SEVERI M.##, **WOLFF E.W., LITTOT G.C., RÖTHLISBERGER R., MULVANEY R., HUTTERLI M.A.**, KAUFMANN P.##, FEDERER U.##, LAMBERT F.##, BIGLER M.##, HANSSON M.##, JONSELL U.##, DE ANGELIS M.##, BOUTRON C.##, SIGGAARD-ANDERSEN M.L.##, STEFFENSEN J.P.##, BARBANTE C.##, GASPARI V.##, GABRIELLI P.## & WAGENBACH D.##

2007. Reconstruction of millennial changes in dust emission transport and regional sea ice coverage using the deep EPICA ice cores from the Atlantic and Indian Ocean sector of Antarctica. *Earth and Planetary Science Letters*, **260**, No. 1-2, 340-354.

FISCHER H.##, SIGGAARD-ANDERSEN M.L.##, RUTH U.##, **RÖTHLISBERGER R. & WOLFF E.W.** 2007. Glacial/interglacial changes in mineral dust and sea-salt records in polar ice cores: sources transport and deposition. *Reviews of Geophysics*, **45**, No. 1, RG1002, doi:10.1029/2005RG000192, 26p.

GRANNAS A.M.##, **JONES A.E.**, DIBB J.E.##, and 31 others## ++ (including **HUTTERLI M. & WOLFF E.W.**). 2007. An overview of snow photochemistry: evidence, mechanisms and impacts. *Atmospheric Chemistry and Physics*, **7**, No. 16, 4329-4373.

HELMIG D.##, OLTMANS S.##, CARLSON D.##, LAMARQUE J.-F.##, **JONES A.E.**, LABUSCHAGNE C.##, ANLAUF K.## & HAYDEN K.## 2007. A review of surface ozone in the polar regions. *Atmospheric Environment*, **41**, No. 24, 5138-5161.

HUTTERLI M.A., CRUEGER T.##, FISCHER H.##, ANDERSEN K.K.##, RAIBLE C.C.##, STOCKER T.F.##, SIGGAARD-ANDERSEN M.L.##, McCONNELL J.R.##, BALES R.C.## & BURKHART J.F.## 2007. The influence of regional circulation patterns on wet and dry mineral dust and sea salt deposition over Greenland. *Climate Dynamics*, **28**, No. 6, 635-647.

JOUZEL J.## & 31 others##, including **WOLFF E.W.** 2007. Orbital and millennial Antarctic climate variability over the past 800,000 years. *Science*, **317**, No. 5839, 793-796.

KAWAMURA K.##, PARRENIN F.##, LISIECKI L.##, UEMURA R.##, VIMEUX F.##, SEVERINGHAUS J.P.##, **HUTTERLI M.A.**, NAKAZAWA T.##, AOKI S.##, JOUZEL J.##, RAYMO M.E.##, MATSUMOTO K.##, NAKATA H.##, MOTOYAMA H.##, FUJITA S.##, GOTO-AZUMA K.##, FUJII Y.## & WATANABE O.## 2007. Northern Hemisphere forcing of climatic cycles in Antarctica over the past 360,000 years. *Nature*, **448**, No. 7156, 912-916.

MARTRAT B.##, GRIMALT J.O.##, SHACKLETON N.J.++, de ABREU L.++, **HUTTERLI M.A.** & STOCKER T.F.## 2007. Four climate cycles of recurring deep and surface water destabilizations on the Iberian margin. *Science*, **317**, No. 5837, 502-507.

PARRENIN F.##, BARNOLA J.M.##, BEER J.##, BLUNIER T.##, CASTELLANO E.##, CHAPPELLAZ J.##, DREYFUS G.##, FISCHER H.##, FUJITA S.##, JOUZEL J.##, KAWAMURA K.##, LEMIEUX-DUDON B.##, LOULERGUE L.##, MASSON-DELMOTTE V.##, NARCISI B.##, PETIT J.R.##, RAISBECK G.##, RAYNAUD D.##, RUTH U.##, SCHWANDER J.##, SEVERI M.##, SPAHNI R.##, STEFFENSEN J.P.##, SVENSSON A.##, UDISTI R.##, WAELBROECK C.## & **WOLFF E.W.** 2007. The EDC3 chronology for the EPICA Dome C ice core. *Climate of the Past*, **3**, No. 3, 485-497.

ROTSCHKY G.##, HOLMLUND P.##, ISAKSSON E.##, **MULVANEY R.**, OERTER H.##, VAN DEN BROEKE M.R.## & WINTHER J.-G.## 2007. A new surface accumulation map for western Dronning Maud Land, Antarctica, from interpolation of point measurements. *Journal of Glaciology*, **53**, No. 182, 385-395

RUTH U.##, BARNOLA J.M.##, BEER J.##, BIGLER M.##, BLUNIER T.##, CASTELLANO E.##, FISCHER H.##, FUNDEL F.##., HUYBRECHTS P.##, KAUFMANN P.##., KIPFSTUHL S.##, LAMBRECHT A.##, MORGANTI A.##, OERTER H.##, PARRENIN F.##, RYBAK O.#, SEVERI M.##, UDISTI R.##, WILHELMS F.##. & **WOLFF E.W.** 2007. "EDML1": a chronology for the EPICA deep ice core from Dronning Maud Land, Antarctica, over the last 150 000 years. *Climate of the Past*, **3**, No. 3, 475-484.

SAUNDERS K.M.##, MCMINN A.##, ROBERTS D.##, **HODGSON D.A.** & HEIJNIS H.## 2007. Recent human-induced salinity changes in Ramsar-listed Orielton Lagoon, south-east Tasmania, Australia: a new approach for coastal lagoon conservation and management. *Aquatic Conservation: Marine and Freshwater Ecosystems*, **17**, No. 1, 51-70.

SEVERI M.##, BECAGLI S.##, CASTELLANO E.##, MORGANTI A.##, TRAVERSI R.##, UDISTI R.##, RUTH U.##, FISCHER H.##, HUYBRECHTS P.##, **WOLFF E.W.**, PARRENIN F.##, KAUFMANN P.##, LAMBERT F.## & STEFFENSEN J.P.## 2007. Synchronisation of the EDML and EDC ice cores for the last 52 kyr by volcanic signature matching. *Climate of the Past*, **3**, No. 3, 367-374.

SIMPSON W.R.##, von GLASOW R.++, RIEDEL K.##, **ANDERSON P.S.**, ARIYA P.##, BOTTENHEIM J.W.##, BURROWS J., CARPENTER L.++, FRIESS U.##, GOODSITE M.E.##, HEARD D.E.++, **HUTTERLI M.A.**, JACOBI H.-W.++, KALESCHKE L.##, NEFF W.##, PLANE J.++, PLATT U.##, RICHTER A.##, **ROSCOE H.K.**, SANDER R.##, SHEPSON P.B.##, SODEAU J.##, STEFFEN A.##, WAGNER T.## & **WOLFF E.W.** 2007. Halogens and their role in polar boundary-layer ozone depletion. *Atmospheric Chemistry and Physics*, **7**, No. 16, 4375-4418.

SJOSTEDT S.J.##, HUEY L.G.##, TANNER D.J.##, PEISCHL J.##, CHEN G.##, DIBB J.E.##, LEFER B.##, **HUTTERLI M.A.**, BEYERSDORF A.J.##, BLAKE N.J.##, BLAKE D.R.##, SUEPER D.##, RYERSON T.##, BURKHART J.F.## & STOHL A.## 2007. Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003. *Atmospheric Environment*, **41**, No. 24, 5122-5137.

SMITH J.A., BENTLEY M.J.++, **HODGSON D.A.** & **COOK A.J.** 2007. George VI Ice Shelf: past history, present behaviour and potential mechanisms for future collapse. *Antarctic Science*, **19**, No. 1, 131-142.

SMITH J.A., BENTLEY M.J.++, **HODGSON D.A.**, **ROBERTS S.J.**, LENG M.J.**, LLOYD J.M.++, **BARRETT M.S.**, BRYANT C.** & SUGDEN D.E.++ 2007. Oceanic and atmospheric forcing of early Holocene ice shelf retreat, George VI Ice Shelf, Antarctic Peninsula. *Quaternary Science Reviews*, **26**, No. 3-4, 500-516.

THOMAS E.R., WOLFF E.W., MULVANEY R., STEFFENSEN J.P.##, JOHNSEN S.J.##, ARROWSMITH C.**, WHITE J.W.C.##, VAUGHN B.H.## & POPP T.## 2007. The 8.2 ka event from Greenland ice cores. *Quaternary Science Reviews*, **26**, No. 1-2, 70-81.

VYVERMAN W.##, VERLEYEN E.##, SABBE K.##, VANHOUTTE K.##, STERKEN M.##, **HODGSON D.A.**, MANN D.G.%%, JUGGINS S.++, VAN de VIJVER B.##, JONES V.J.++, FLOWER R.++, ROBERTS D.##, CHEPURNOV V.A.##, KILROY C.##, VANORMELINGEN P.## & De WEVER A.## 2007. Historical processes constrain patterns in global diatom diversity. *Ecology*, **88**, No. 8, 1924-1931.

WOLFF E.W. 2007. When is the "present"? *Quaternary Science Reviews*, **26**, No. 25-28 2007.

WOLFF E.W. & SPAHNI R.## 2007. Methane and nitrous oxide in the ice core record. *Philosophical Transactions of the Royal Society of London, Series A*, **365**, No. 1856, 1775-1792.

WOLFF E.W., HUTTERLI M.A. & JONES A.E. 2007. Past atmospheric composition and chemistry from ice cores - progress and prospects. *Environmental Chemistry*, **4**, No. 4, 211-216.

WORTON D.R.++, STURGES W.T.++, GOHAR L.K.++, SHINE K.P.++, MARTINERIE P.##, ORAM D.E.++, HUMPHREY S.P.++, BEGLEY P.++, GUNN L.++, BARNOLA J.M.##, SCHWANDER J.## & **MULVANEY R.** 2007. Atmospheric trends and radiative forcings of CF₄ and C₂F₆ inferred from firn air. *Environmental Science & Technology*, **41**, No. 7, 2184-2189.

Book chapters

WOLFF E.W. 2007. Ice chemistry. (*In: Riffenburgh, B., ed. Encyclopedia of the Antarctic. Vol. 1: A-K.* New York, Routledge, 501-504.)

WOLFF E.W. 2007. Ice core analysis and dating techniques. (*In: Riffenburgh, B., ed. Encyclopedia of the Antarctic. Vol. 1: A-K.* New York, Routledge, 504-507.)

WOLFF E.W. 2007. Paleoclimatology. (*In: Riffenburgh, B., ed. Encyclopedia of the Antarctic. Vol. 2: L-Z.* New York, Routledge, 707-713.)

Unrefereed publications

COLLINS L.G., ALLEN C.S., PIKE J.++ & HODGSON D.A. 2007. The Scotia Sea: reconstructing glacial climates from diatom assemblages. (*In Cooper, A.K., Raymond, C.R. & ISAES Editorial Team, eds. Antarctica: a keystone in a changing world. Online proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 - September 1 2007. U.S. Geological Survey Open-File Report, 2007-1047.* U.S. Geological Survey, National Academy Press, Extended abstract 136, 6p.)

HEY A.R.++, PIKE J.++, ALLEN C.S. & HODGSON D.A. 2007. Palaeoclimate reconstructions from the Antarctic Peninsula: diatoms as indicators of Holocene environmental change. (In Cooper, A.K., Raymond, C.R. & ISAES Editorial Team, eds. Antarctica: a keystone in a changing world. Online proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 - September 1 2007. U.S. Geological Survey Open-File Report, 2007-1047. U.S. Geological Survey, National Academy Press, Extended abstract 045, 4p.)

HODGSON D.A., WOLFF E.W., MULVANEY R. & ALLEN C.S. 2007. Extending the Americas paleoclimate transect through the Antarctic Peninsula to the Pole. *PAGES News*, **15**, No. 1, 6-7.

HØV O.##, SHEPSON P.B.## & WOLFF E.W. 2007. The chemical composition of the polar atmosphere - the IPY contribution. *WMO Bulletin*, **56**, No. 4, 263-269.

JONES A.E. 2007. The surprising polar troposphere. *Environmental Chemistry Group Bulletin*, July 2007, 6-9

SROKOSZ M.A.**, WOLFF E.W. & BYFIELD V.** 2007. Rapid climate change and the role of ocean circulation. Rapid Climate Change International Science Conference, Birmingham, U.K., 24-27 October 2006. [Meeting report]. *Eos. Transactions, American Geophysical Union*, **88**, No. 13, 142.

WOLFF E.W. 2007. Frozen in time: the chemistry of polar ice cores. *Environmental Chemistry Group Bulletin*, July 2007, 3-6.

WOLFF E.W. 2007. An ice-core scientist wonders what makes the Earth run hot and cold. *Nature*, **447**, No. 7142, 235.

WOLFF E.W. 2007. International Partnerships in Ice Core Sciences (IPICS) and the future of European ice coring. (In Cardinal, D. & Lipiatou, E., eds. Polar environment and climate: the challenges. Conference proceedings, International symposium, Brussels, March 2007. European research in the context of the International Polar Year. *Climate change and natural hazards series*, 11. Brussels, European Commission, 111-113.)

GRADES: Glacial Retreat in Antarctica and Deglaciation of the Earth System

Refereed research papers 2007 listed in ISI database

BART P.J.##, HILLENBRAND C.-D., EHRMANN W.##, IWAI M.##, WINTER D.## & WARNY S.A.## 2007. Are Antarctic Peninsula Ice Sheet grounding events manifest in sedimentary cycles on the adjacent continental rise? *Marine Geology*, **236**, No. 1-2, 1-13.

BINGHAM R.G. & SIEGERT M.J.++ 2007. Radar-derived bed roughness characterization of Institute and Möller ice streams, West Antarctica, and comparison

with Siple Coast ice streams. *Geophysical Research Letters*, **34**, No. 21, L21504, doi:10.1029/2007GL031483, 5p.

BRADWELL T.** , STOKER M.S.** & LARTER R.D. 2007. Geomorphological signature and flow dynamics of The Minch palaeo-ice stream, NW Scotland. *Journal of Quaternary Science*, **22**, No. 6, 609-617.

CURRY P. & PUDSEY C.J. 2007. New Quaternary sedimentary records from near the Larsen C and former Larsen B ice shelves; evidence for Holocene stability. *Antarctic Science*, **19**, No. 3, 355-364.

GU DMUNDSSON G.H. 2007. Tides and the flow of Rutford Ice Stream, West Antarctica. *Journal of Geophysical Research*, **112**, No. F4, F04007, doi:10.1029/2006JF000731, 8p.

HÉLIÈRE F.##, LIN C.-C.##, CORR H.F.J. & VAUGHAN D.G. 2007. Radio echo sounding of Pine Island Glacier, West Antarctica: aperture synthesis processing and analysis of feasibility from space. *IEEE Transactions on Geoscience and Remote Sensing*, **45**, No. 8, 2573-2582.

KING E.C. & JARVIS E.P. 2007. Use of shear waves to measure Poisson's ratio in polar firn. *Journal of Environmental and Engineering Geophysics*, **12**, No. 1, 15-21.

KING E.C., WOODWARD J.++ & SMITH A.M. 2007. Seismic and radar observations of subglacial bed forms beneath the onset zone of Rutford Ice Stream, Antarctica. *Journal of Glaciology*, **53**, No. 183, 665-672.

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LAMBRECHT A.##, SANDHÄGER H.##, VAUGHAN D.G. & MAYER C.## 2007. New ice thickness maps of Filchner-Ronne Ice Shelf, Antarctica with specific focus on grounding lines and marine ice. *Antarctic Science*, **19**, No. 4, 521-532.

MURRAY T.++, SMITH A.M., KING M.A.++ & WEEDON G.P.++ 2007. Ice flow modulated by tides at up to annual periods on Rutford Ice Stream, West Antarctica. *Geophysical Research Letters*, **34**, No. 18, L18503, doi:10.1029/2007GL031207, 6p.

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