

British Antarctic Survey publications 2010

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: GLOBAL SCIENCE IN THE ANTARCTIC CONTEXT

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

Refereed research papers 2010 listed in ISI database

LUNT, D.J.++, HAYWOOD, A.M.++, SCHMIDT, G.A.##, **SALZMANN, U.**, VALDES, P.J.++, DOWSETT, H.J.## 2010. Earth system sensitivity inferred from Pliocene modelling and data. *Nature Geoscience*, **3**, 60-64

WILLIAMS, M.++, **NELSON, A.E.**, **SMELLIE, J.L.**, LENG, M.J.***, JOHNSON, A.L.A.++, JARRAM, D.R.++, HAYWOOD, A.M.++, **PECK, V.L.**, ZALASIEWICZ, J.++, BENNETT, C.++, SCHÖNE, B.R.## 2010. Sea ice extent and seasonality for the Early Pliocene northern Weddell Sea. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **292**, No. 1-2, 306-318

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

Refereed research papers 2010 listed in ISI database

BENTLEY, M.J. 2010. The Antarctic palaeo record and its role in improving predictions of future Antarctic Ice Sheet change. *Journal of Quaternary Science*, **25**, No. 1, 5-18

HILLENBRAND, C.-D., SMITH, J.A., KUHN, G.##, ESPER, O.##, GERSONDE, R.##, **LARTER, R.D.**, MAHER, B.A.++, MORETON, S.G.***, SHIMMIELD, T.M.++, KORTE, M.## 2010. Age assignment of a diatomaceous ooze deposited in the western Amundsen Sea Embayment after the Last Glacial Maximum. *Journal of Quaternary Science*, **25**, No. 3, 280-295.

RICKABY, R.E.M.++, ELDERFIELD, H.++, ROBERTS, N.++, **HILLENBRAND, C.-D.**, MACKENSEN, A.## 2010. Evidence for elevated alkalinity in the glacial Southern Ocean. *Paleoceanography*, **25**, 15p.

BIOFLAME: Biodiversity, Functions, Limits and Adaptation from Molecules to Ecosystems

Refereed research papers 2010 listed in ISI database

McINNES, S.J. 2010. *Echiniscus corrugicaudatus* (Heterotardigrada; Echiniscidae) a new species from Ellsworth Land, Antarctica. *Polar Biology*, **33**, No. 1, 59-70

DISCOVERY 2010: Integrating Southern Ocean Ecosystems into the Earth System

Refereed research papers 2010 listed in ISI database

PRIEDE, I.G.++, GODBOLD, J.A.++, KING, N.J.++, **COLLINS, M.A.**, BAILEY, D.M.++, GORDON, J.D.M.++ 2010. Deep-sea demersal fish species richness in the Porcupine Seabight, NE Atlantic Ocean: global and regional patterns. *Marine Ecology*, **31**, No.1, 247-260.

POLAR SCIENCE FOR PLANET EARTH

PSPE - Chemistry and Past Climate

Refereed research papers 2010 listed in ISI database

ABRAM, N.J., THOMAS, E.R., McCONNELL, J.R.##, **MULVANEY, R., BRACEGIRDLE, T.J., SIME, L.C.**, ARISTARAIN, A.J.## 2010. Ice core evidence for a 20th century decline in sea ice in the Bellingshausen Sea, Antarctica. *Journal of Geophysical Research*, **115**, No. D23D23101, 9p

ALLEN, C.S., OAKES-FRETWELL, L.##, ANDERSON, J.B.##, **HODGSON, D.A.** 2010. A record of Holocene glacial and oceanographic variability in Neny Fjord, Antarctic Peninsula. *Holocene*, **20**, No. 4, 551-564.

BARBANTE, C.##, FISCHER, H.##, MASSON-DELMOTTE, V.##, WAELBROECK, C.##, **WOLFF, E.W.** 2010. Climate of the last million years: new insights from EPICA and other records. *Quaternary Science Reviews*, **29**, No. 1-2, 1-7

BIGLER, M.##, **RÖTHLISBERGER, R.**, LAMBERT, F.##, **WOLFF, E.W.**, CASTELLANO, E.##, UDISTI, R.##, STOCKER, T.F.##, FISCHER, H.## 2010. Atmospheric decadal variability from high-resolution Dome C ice core records of aerosol constituents beyond the Last Interglacial. *Quaternary Science Reviews*, **29**, No. 1-2, 324-337.

BLOSS, W.J.++, CAMREDON, M.++, LEE, J.D.++, HEARD, D.E.++, PLANE, J.M.C.++, SAIZ-LOPEZ, A.##, **BAUGUITTE, S.J.-B., SALMON, R.A., JONES, A.E.** 2010. Coupling of HO_x, NO_x and halogen chemistry in the Antarctic boundary layer. *Atmospheric Chemistry and Physics*, **10**, No. 21, 10187-10209.

BORY, A.J.-M., WOLFF, E.W., MULVANEY, R., JAGOUTZ, E.##, WEGNER, A.##, RUTH, U.##, ELDERFIELD, H.++ 2010. Multiple sources supply eolian mineral dust to the Atlantic sector of coastal Antarctica: Evidence from recent snow layers at the top of Berkner Island ice sheet. *Earth and Planetary Science Letters*, **291**, No. 1-2, 13, 138-148.

FISCHER, H.##, SCHMITT, J.##, LÜTHI, D.##, STOCKER, T.F.##, TSCHUMI, T.##, PAREKH, P.##, JOOS, F.##, KÖHLER, P.##, VÖLKER, C.##, GERSONDE, R.##, BARBANTE, C.##, LE FLOCH, M.##, RAYNAUD, D.##, **WOLFF, E.W.** 2010. The role of Southern Ocean processes in orbital and millennial CO₂ variations - A synthesis. *Quaternary Science Reviews*, **29**, No. 1-2, 193-205.

FRETWELL, P.T., HODGSON, D.A., WATCHAM, E.P.++, BENTLEY, M.J.++, **ROBERTS, S.J.** 2010. Holocene isostatic uplift of the South Shetland Islands, Antarctic Peninsula, modelled from raised beaches. *Quaternary Science Reviews*, **29**, No. 15-16, 1880-1893.

FREY, M.M., SAVARINO, J.##, MORIN, S.##, ERBLAND, J.##, MARTINS, J.M.F.## 2010. Photolysis imprint in the nitrate stable isotope signal in snow and atmosphere of East Antarctica and implications for reactive nitrogen cycling. *Atmospheric Chemistry and Physics*, **9**, No. 22, 8681-8696.

HAAPANIEMI, A.I.##, SCOURSE, J.D.++, **PECK, V.L.**, KENNEDY, H.++, KENNEDY, P.++, HEMMING, S.R.##, FURZE, M.F.A.##, PIENKOWSKI, A.J.##, AUSTIN, W.E.N.++, WALDEN, J.++, WADSWORTH, E.++, HALL, I.R.++ 2010. Source, timing, frequency and flux of ice-rafted detritus to the Northeast Atlantic margin, 30-12 ka: testing the Heinrich precursor hypothesis. *Boreas*, **39**, No.3, 576-591

HODGSON, D.A., CONVEY, P., VERLEYEN, E.##, VYVERMAN, W.##, **McINNES, S.J., SANDS, C.J.**, FERNÁNDEZ-CARAZO, R.##, WILMOTTE, A.##, De WEVER, A.##, PEETERS, K.##, TAVERNIER, I.##, WILLEMS, A.## 2010. The limnology and biology of the Dufek Massif, Transantarctic Mountains 82⁰ South. *Polar Science*, **4**, No. 2, 197-214.

HODGSON, D.A., SIME, L.C. 2010. Palaeoclimate Southern westerlies and CO₂. *Nature Geoscience*, **3**, No.10, 666-667.

HOLDEN, P.B.++, EDWARDS, N.R.++, **WOLFF, E.W., LANG, N.J.**, SINGARAYER, J.S.++, VALDES, P.J.++, STOCKER, T.F.## 2010. Interhemispheric coupling, the West Antarctic Ice Sheet and warm Antarctic interglacials. *Climate of the Past*, **6**, No. 4, 431-443

JONES, A.E., ANDERSON, P.S., WOLFF, E.W., ROSCOE, H.K., MARSHALL, G.J., RICHTER, A.##, BROUGH, N., COLWELL, S.R. 2010. Vertical structure of Antarctic tropospheric ozone depletion events: characteristics and broader implications. *Atmospheric Chemistry and Physics*, **7**, No. 16, 7775-7794.

KAUFMANN, P.R.##, FUNDEL, F.##, FISCHER, H.##, BIGLER, M.##, RUTH, U.##, UDISTI, R.##, HANSSON, M.##, DE ANGELIS, M.##, BARBANTE, C.##, **WOLFF, E.W., HUTTERLI, M.A.**, WAGENBACH, D.## 2010. Ammonium and non-sea salt sulfate in the EPICA ice cores as indicator of biological activity in the Southern Ocean. *Quaternary Science Reviews*, **29**, No. 1-2, 313-323.

MAHOWALD, N.M.##, KLOSTER, S.##, ENGELSTAEDTER, S.##, MOORE, J.K.##, MUKHOPADHYAY, S.##, McCONNELL, J.R.##, ALBANI, S.##, DONEY, S.C.##, BHATTACHARYA, A.##, CURRAN, M.A.J.##, FLANNER, M.G.##, HOFFMAN, F.M.##, LAWRENCE, D.M.##, LINDSAY, K.##, MAYEWSKI, P.A.##, NEFF, J.##, ROTHENBERG, D.##, **THOMAS, E., THORNTON, P.E.##, ZENDER, C.S.##** 2010.

Observed 20th century desert dust variability: impact on climate and biogeochemistry. *Atmospheric Chemistry and Physics*, **10**, No. 22, 10875-10893

MASSON-DELMOTTE, V.##, STENNI, B.##, POL, K##., BRACONNOT, P##., CATTANI, O.##, FALOURD, S.##, KAGEYAMA, M.##, JOUZEL, J.##, LANDAIS, A.##, MINSTER, B.##, BARNOLA, J.M.##, CHAPPELLAZ, J.##, KRINNER, G.##, JOHNSEN, S.##, **RÖTHLISBERGER, R.**, HANSEN, J.##, MIKOLAJEWICZ, U.##, OTTO-BLEISNER, B.## 2010. EPICA Dome C record of glacial and interglacial intensities. *Quaternary Science Reviews*, **29**, No. 1-2, 113-128.

MILLER, G.H.##, BRIGHAM-GRETTE, J.##, ALLEY, R.B.##, ANDERSON, L.##, BAUCH, H.A.##, DOUGLAS, M.S.V.##, EDWARDS, M.E.++, ELIAS, S.A.++, FINNEY, B.P.##, FITZPATRICK, J.J.##, FUNDER, S.V.##, HERBERT, T.D.##, HINZMAN, L.D.##, KAUFMAN, D.S.##, MacDONALD, G.M.##, POLYAK, L.##, ROBOCK, A.##, SERREZE, M.C.##, SMOL, J.P.##, SPIELHAGEN, R.##, WHITE, J.W.C.##, WOLFE, A.P.##, **WOLFF, E.W.** 2010. Temperature and precipitation history of the Arctic. *Quaternary Science Reviews*, **29**, No. 15-16, 1679-1715

MOLLER, S.J.++, LEE, J.D.++, COMMANE, R.++, EDWARDS, P.++, HEARD, D.E.++, HOPKINS, J.++, INGHAM, T.++, MAHAJAN, A.++, OETJEN, H.++, PLANE, J.++, **ROSCOE, H.K.**, LEWIS, A.C.++, CARPENTER, L.J.++ 2010. Measurements of nitrogen oxides from Hudson Bay: Implications for NO_x release from snow and ice covered surfaces. *Atmospheric Environment*, **44**, No. 25, 2971-2979

NAISH, T.##, **WOLFF, E.W.**, CARTER, L.##, MCKAY, R.##, POWELL, R.## 2010. Antarctic climate evolution during the Quaternary (last 2.6 Ma) from continental margin, Southern Ocean and ice core records. *Quaternary International*, **219**, No. 1-2, 177.

PECK, V.L., YU, J.##, KENDER, S.***, RIESSSELMAN, C.R.## 2010. Shifting ocean carbonate chemistry during the Eocene-Oligocene climate transition: implications for deep ocean Mg/Ca paleothermometry. *Paleoceanography*, **25**, No. 4, PA4219
doi:10.1029/2009PA001906, 9p

POLYAK, L.##, ALLEY, R.B.##, ANDREWS, J.T.##, BRIGHAM-GRETTE, J.##, CRONIN, T.M.##, DARBY, D.A.##, DYKE, A.S.##, FITZPATRICK, J.J.##, FUNDER, S.##, HOLLAND, M.##, JENNINGS, A.E.##, MILLER, G.H.##, O'REGAN, M.##, SAVELLE, J.##, SERREZE, M.##, ST JOHN, K.##, WHITE, J.W.C.##, **WOLFF, E.W.** 2010. History of sea ice in the Arctic. *Quaternary Science Reviews*, **29**, No. 15-16, 1757-1778.

ROBERTS, S.J., HODGSON, D.A., SHELLEY, S., ROYLES, J., GRIFFITHS, H.J., DEEN, T.J., THORNE, M.A.S. 2010. Establishing lichenometric ages for nineteenth - and twentieth - century glacier fluctuations on South Georgia (South Atlantic). Lichenometry in subpolar environments (special issue). *Geografiska Annaler, Series A*, **Volume 92 A**, Number. 1, 125-139.

RÖTHLISBERGER, R., CROSTA, X.##, ABRAM, N.J., ARMAND, L.##, **WOLFF, E.W.** 2010. Potential and limitations of marine and ice core sea ice proxies: an example from the Indian Ocean sector. *Quaternary Science Reviews*, **29**, No. 1-2, 296-302

SEVERINGHAUS, J.##, **WOLFF, E.W.**, BROOK, E.J.## 2010. Searching for the oldest ice. *Eos. Transactions of the American Geophysical Union*, **91**, No. 4, 357-358.

STENNI, B.##, MASSON-DELMOTTE, V.##, SELMO, E.##, OERTER, H.##, MEYER, H.##, **RÖTHLISBERGER, R.**, JOUZEL, J.##, CATTANI, O.##, FALOURD, S.##, FISCHER, H.##, HOFFMANN, G.##, IACUMIN, P.##, JOHNSEN, S.J.##, MINSTER, B.##, UDISTI, R.## 2010. The deuterium excess records of EPICA Dome C and Dronning Maud Land ice cores (East Antarctica). *Quaternary Science Reviews*, **29**, No. 1-2, 146-159.

VERLEYEN, E.##, SABBE, K.##, **HODGSON, D.A.**, GRUBISIC, S.##, TATON, A.##, COUSIN, S.##, WILMOTTE, A.##, De WEVER, A.##, VAN DER GUCHT, K.##, VYVERMAN, W.## 2010. Structuring effects of climate-related environmental factors on Antarctic microbial mat communities. *Aquatic Microbial Ecology*, **59**, No. 1, 11-24.

VYVERMAN, W.##, VERLEYEN, E.##, WILMOTTE, A.##, **HODGSON, D.A.**, WILLEMS, A.##, PEETERS, K.##, VAN de VIJVER, B.##, De WEVER, A.##, LELIAERT, F.##, SABBE, K.## 2010. Evidence for widespread endemism among Antarctic micro-organisms. *Polar Science*, **4**, No. 2, 103-113.

WOLFF, E.W., CHAPPELLAZ, J.##, BLUNIER, T.##, RASMUSSEN, S.O.##, SVENSSON, A.## 2010. Millennial-scale variability during the last glacial: The ice core record. *Quaternary Science Reviews*, **29**, No. 21-22, 2828-2838.

WOLFF, E.W., BARBANTE, C.##, BECAGLI, S.##, BIGLER, M.##, BOUTRON, C.F.##, CASTELLANO, E.##, DE ANGELIS, M.##, FEDERER, U.##, FISCHER, H.##, FUNDEL, F.##, HANSSON, M.##, **HUTTERLI, M.A.**, JONSELL, U.##, KARLIN, T.##, KAUFMANN, P.##, LAMBERT, F.##, **LITTOT, G.C.**, **MULVANEY, R.**, **RÖTHLISBERGER, R.**, RUTH, U.##, SEVERI, M.##, SIGGAARD-ANDERSEN, M.L.##, **SIME, L.C.**, STEFFENSEN, J.P.##, STOCKER, T.F.##, TRAVERSI, R.##, TWARLOH, B.##, UDISTI, R.##, WAGENBACH, D.##, WEGNER, A.## 2010. Changes in environment over the last 800 000 years from chemical analysis of the EPICA Dome C ice core. *Quaternary Science Reviews*, **29**, No. 1-2, 285-295

Unrefereed publications

WOLFF, E.W. 2010. Setting the record straight on climate change. *Profile*, No. 6, 16-17

PSPE – Climate

Refereed research papers 2010 listed in ISI database

BRACEGIRDLE, T.J., KOLSTAD, E.W.## 2010. Climatology and variability of Southern Hemisphere marine cold-air outbreaks. *Tellus*, **62A**, No. 2, 202-208.

CHEN, L.##., THORNE, R.M.##, JORDANOVA, V.K.##, **HORNE, R.B.** 2010. Global simulation of magnetosonic wave instability in the storm time magnetosphere. *Journal of Geophysical Research*, **115**, No. A11, A11222, doi:10.1029/2010JA015707, 11p.

CHEN, L.##, THORNE, R.M.##, JORDANOVA, V.K.##, WANG, C.-P.##, GKIOULIDOU, M.##, LYONS, L.##, **HORNE, R.B.** 2010. Global simulation of EMIC wave excitation during the 21 April 2001 storm from coupled RCM-RAM-HOTRAY modeling. *Journal of Geophysical Research*, **115**, No.A07209, doi:10.1029/2009JA015075, 13p.

CLILVERD, M.A., RODGER, C.J.##, DIETRICH, S.##, RAITA, T.##, ULICH, T.##, CLARK, E.**, THOMSON, A.W.P.**, KAVANAGH, A.J.++ 2010. High-latitude geomagnetically induced current events observed on very low frequency radio wave receiver systems. *Radio Science*, **45**, No. 2, RS2006, doi:10.1029/2009RS004215, 11p.

CLILVERD, M.A., RODGER, C.J.##, **MOFFAT-GRIFFIN, T.**, SPANSWICK, E.##, BREEN, P.##, MENK, F.W.##, GREW, R.S.##, HAYASHI, K.##, MANN, I.R.## 2010. Energetic outer radiation belt electron precipitation during recurrent solar activity. *Journal of Geophysical Research*, **115**, No. A8, A08323, doi:10/1029/2009JA015204, 14p.

CLILVERD, M.A., RODGER, C.J.##, GAMBLE, R.J.##, ULICH, T.##, RAITA, T.##, **SEPPÄLÄ, A.**, GREEN, J.C.##, THOMSON, N.R.##, SAUVAUD, J.-A.##, PARROT, M.## 2010. Ground-based estimates of outer radiation belt energetic electron precipitation fluxes into the atmosphere. *Journal of Geophysical Research*, **115**, No. A12A12304, 11p

DIETRICH, S.##, RODGER, C.J.##, **CLILVERD, M.A.**, BORTNIK, J.##, RAITA, T.## 2010. Relativistic microburst storm characteristics: Combined satellite and ground-based observations. *Journal of Geophysical Research*, **115**, No. A12240, 10.1029/2010JA015777, 10p

FERENCZ, C.##, LICHTENBERGER, J.##, HAMAR, D.##, FERENCZ, O.E.##, STEINBACH, P.##, SZÉKELY, B.##, PARROT, M.##, LEFEUVRE, F.##, BERTHELIER, J.-J.##, **CLILVERD, M.A.** 2010. An unusual VLF signature structure recorded by the DEMETER satellite. *Journal of Geophysical Research*, **115**, No.A2, A02210, doi:10.1029/2009JA014636, 10p.

FIELDER, E.K. 2010. Ocean-atmosphere heat fluxes at the Ronne Polynya, Antarctica. *Weather*, **65**, No. 1, 16-21.

FIEDLER, E.K.++, **LACHLAN-COPE, T.A.**, RENFREW, I.A.++, **KING, J.C.** 2010. Convective heat transfer over thin-ice covered coastal polynyas. *Journal of Geophysical Research*, **115** No. C10, C10051, doi:10.1029/2009JC005797, 19p.

GOLDEN, D.I.##, SPASOJEVIC, M.##, FOUST, F.R.##, LEHTINEN, N.G.##, **MEREDITH, N.P.**, INAN, U.S.## 2010. Role of the plasmapause in dictating the ground accessibility of ELF/VLF chorus. *Journal of Geophysical Research*, **115**, No. A11, A11211, doi:10.1029/2010JA015955, 15p.

GRAF, H.-F.++, SHIRSAT, S.V.++, OPPENHEIMER, C.++, **JARVIS, M.J.**, PODSUN, R.##, JACOB, D.## 2010. Continental scale Antarctic deposition of sulphur and black carbon from anthropogenic and volcanic sources. *Atmospheric Chemistry and Physics*, **10**, No. 5, 2457-2465.

HIBBINS, R.E., **MARSH, O.J.**, McDONALD, A.J.##, **JARVIS, M.J.** 2010. Interannual variability of the S=1 and S=2 components of the semidiurnal tide in the Antarctic MLT.

Journal of Atmospheric and Solar-Terrestrial Physics, **72**, No. 9, 794-800.

HIBBINS, R.E., MARSH, O.J., McDONALD, A.J.##, JARVIS, M.J. 2010. A new perspective on the longitudinal variability of the semidiurnal tide. *Geophysical Research Letters*, **37**, No. 14, 5p

JARVIS, M.J. 2010. The ineffectiveness of Joule heating in the stratosphere. *Journal of Atmospheric and Solar-Terrestrial Physics*, **72**, No. 14-15, 1110-1113.

JUNG, T.%%, BALSAMO, G.%%, BECHTOLD, P.%%, BELJAARS, A.C.M.%%, KÖHLER, M.%%, MILLER, M.J.%%, MORCRETTE, J.-J.%%, **ORR, A., RODWELL, M.J.%%, TOMPKINS, A.M.##** 2010. The ECMWF model climate: Recent progress through improved physical parametrizations. *Quarterly Journal of the Royal Meteorological Society*, **136**, No. 650, 1145-1160

KING, J.C., DOBLE, M.J.++, HOLLAND, P.R. 2010. Analysis of a rapid sea ice retreat event in the Bellingshausen Sea. *Journal of Geophysical Research*, **115**, No. C12C12030, 10.1029/2010JC006101, 10p

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KUTTIPURATH, J.##, GOUTAIL, F.##, POMMEREAU, J.-P.##, LEFÈVRE, F.##, **ROSCOE, H.K., PAZMIÑO, A.##, FENG, W.++, CHIPPERFIELD, M.P.++, GODIN-BEEKMANN, S.##** 2010. Estimation of Antarctic ozone loss from ground-based total column measurements. *Atmospheric Chemistry and Physics*, **10**, No. 14, 6569- 6581

LACHLAN-COPE, T.A. 2010. Antarctic clouds. *Polar Research*, **29**, No. 2, 150-158

LAM, M.M.++, **HORNE, R.B., MEREDITH, N.P., GLAUERT, S.A., MOFFAT-GRIFFIN, T., GREEN, J.C.##** 2010. Origin of energetic electron precipitation >30 keV into the atmosphere. *Journal of Geophysical Research*, **115**, A00F08, doi: 10.1029/2009JA014619, 15p

LICHTENBERGER, J.##, FERENCZ, C.##, HAMAR, D.##, STEINBACH, P.##, RODGER, C.J.##, **CLILVERD, M.A., COLLIER, A.B.##** 2010. Automatic Whistler Detector and Analyzer system: Implementation of the analyzer algorithm. *Journal of Geophysical Research*, **115**, No. A12A12214, 10.1029/2010JA015931, 7p

MASSON-DELMOTTE, V.##, STENNI, B.##, BLUNIER, T.##, CATTANI, O.##, CHAPPELLAZ, J.##, CHENG, H.##, DREYFUS, G.##, EDWARDS, R.L.##, FALOURD, S.##, GOVIN, A.##, KAWAMURA, K.##, JOHNSEN, S.J.##, JOUZEL, J.##, LANDAIS, A.##, LEMIEUX-DUDON, B.##, LOURANTOU, A.##, **MARSHALL, G., MINSTER, B.##, MUDELSEE, M.##, POL, K.##, RÖTHLISBERGER, R., SELMO, E.##, WAELBROECK, C.##** 2010. Abrupt change of Antarctic moisture origin at the end of Termination II. *Proceedings of the National Academy of Sciences*, **107**, No. 27, 12091-12094

MOFFAT-GRIFFIN, T., HIBBINS, R.E., JARVIS, M.J. 2010. Calibrating an imaging riometer: determination of the true beam azimuth angle position. *Radio Science*, **45**, No.5, RS5011, doi:10.1029/2010RS00435, 11p.

PARK, J.##, MIN, K.W.##, SUMMERS, D.##, HWANG, J.##, KIM, H.J.##, **HORNE, R.B., KIRSCH, P., YUMOTO, K.##, UOZUMI, T.##, LÜHR, H.##, GREEN, J.##** 2010. Non-stormtime injection of energetic particles into the slot-region between Earth's inner and outer electron radiation belts as observed by STSAT-1 and NOAA-POES. *Geophysical Research Letters*, **37**, No. 16 L16102, doi:10.1029/2010GL043989, 5p.

POSCH, J.L.##, ENGBRETSON, M.J.##, MURPHY, M.T.##, DENTON, M.H.++, LESSARD, M.R.##, **HORNE, R.B.** 2010. Probing the relationship between electromagnetic ion cyclotron waves and plasmaspheric plumes near geosynchronous orbit. *Journal of Geophysical Research*, **115**, No. A11, A11205, doi:10.1029/2010JA015446, 18p.

RODGER, C.J.##, **CLILVERD, M.A., GREEN, J.C.##, LAM, M.M.** 2010. Use of POES SEM-2 observations to examine radiation belt dynamics and energetic electron precipitation into the atmosphere. *Journal of Geophysical Research*, **115**, No. A4, A04202, doi:10.1029/2008JA014023, 13p.

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