

British Antarctic Survey publications 2013

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

POLAR SCIENCE FOR PLANET EARTH

Chemistry and Past Climate

Refereed research papers 2013 listed in ISI database

ABRAM, N.J., WOLFF, E.W., CURRAN, M.A.J.## 2013. A review of sea ice proxy information from polar ice cores. *Quaternary Science Reviews*, **79**, 168-183.

ABRAM, N.J., MULVANEY, R., WOLFF, E.W., TRIEST, J., KIPFSTUHL, S.##, TRUSEL, L.D.##, VIMEUX, F.##, FLEET, L., ARROWSMITH, C.** 2013. Acceleration of snow melt in an Antarctic Peninsula ice core during the twentieth century. *Nature Geoscience*, **6**, (5). 404-411.

AHMED, M.##, ANCHUKAITIS, K.J.##, ASRAT, A.##, BORGAONKAR, H.P.##, BRAIDA, M.##, BUCKLEY, B.M.##, BÜNTGEN, U.##, CHASE, B.M.##, CHRISTIE, D.A.##, COOK, E.R.##, CURRAN, M.A.J.##, DIAZ, H.F.##, ESPER, J.##, FAN, Z.-X.##, GAIRE, N.P.##, GE, Q.##, GERGIS, J.##, GONZÁLEZ-ROUCO, J.F.##, GOOSSE, H.##, GRAB, S.W.##, GRAHAM, N.##, GRAHAM, R.##, GROSJEAN, M.##, HANHIJÄRVI, S.T.##, KAUFMAN, D.S.##, KIEFER, T.##, KIMURA, K.##, KORHOLA, A.A.##, KRUSIC, P.J.##, LARA, A.##, LÉZINE, A.-M.##, LJUNGQVIST, F.C.##, LORREY, A.M.##, LUTERBACHER, J.##, MASSON-DELMOTTE, V.##, McCARROLL, D.++, McCONNELL, J.R.##, McKAY, N.P.##, MORALES, M.S.##, MOY, A.D.##, **MULVANEY, R.**, MUNDO, I.A.##, NAKATSUKA, T.##, NASH, D.J.++, NEUKOM, R.##, NICHOLSON, S.E.##, OERTER, H.##, PALMER, J.G.++, PHIPPS, S.J.##, PRIETO, M.R.##, RIVERA, A.##, SANO, M.##, SEVERI, M.##, SHANAHAN, T.M.##, SHAO, X.##, SHI, F.##, SIGL, M.##, SMERDON, J.E.##, SOLOMINA, O.N.##, STEIG, E.J.##, STENNI, B.##, THAMBAN, M., TROUET, V., TURNEY, C.S.M., UMER, M., VAN OMMEN, T., VERSCHUREN, D.##, VIAU, A.E.##, VILLALBA, R.##, VINTHER, B.M.##, VON GUNTEN, L.##, WAGNER, S.##, WAHL, E.R.##, WANNER, H.##, WERNER, J.P.##, WHITE, J.W.C.##, YASUE, K.##, ZORITA, E.## 2013. Continental-scale temperature variability during the past two millennia. *Nature Geoscience*, **6**, 339-346.

BAZIN, L.##, LANDAIS, A.##, LEMIEUX-DUDON, B.##, TOYÉ MAHAMADOU KELE, H.##, VERES, D.##, PARRENIN, F.##, MARTINERIE, P.##, RITZ, C.##, **CAPRON, E.**, LIPENKOV, V.##, LOUTRE, M.-F.##, RAYNAUD, D.##, VINTHER, B.##, SVENSSON, A.##, RASMUSSEN, S. O.##, SEVERI, M.##, BLUNIER, T.##, LEUENBERGER, M.##, FISCHER, H.##, MASSON-DELMOTTE, V.##, CHAPPELLAZ, J.##, **WOLFF, E.** 2013.

An optimized multi-proxy, multi-site Antarctic ice and gas orbital chronology (AICC2012): 120-800 ka. *Climate of the Past*, **9**, (4), 1715-1731.

BRADLEY, S.L., SIDDALL, M.++, MILNE, G.A.##, MASSON-DELMOTTE, V.##, **WOLFF, E.** 2013. Combining ice core records and ice sheet models to explore the evolution of the East Antarctic Ice sheet during the Last Interglacial period. *Global and Planetary Change*, **100**, 278-290.

BUYS, Z., **BROUGH, N.**, HUEY, L.G.##, TANNER, D.J.##, VON GLASOW, R.++, **JONES, A.E.** 2013. High temporal resolution Br₂, BrCl and BrO observations in coastal Antarctica. *Atmospheric Chemistry and Physics*, **13**, (3), 1329-1343.

CAPRON, E., LANDAIS, A.##, BUIRON, D.##, CAUQUOIN, A.##, CHAPPELLAZ, J.##, DEBRET, M.##, JOUZEL, J.##, LEUENBERGER, M.##, MARTINERIE, P.##, MASSON-DELMOTTE, V.##, **MULVANEY, R.**, PARRENIN, F.##, PRIÉ, F.## 2013. Glacial–interglacial dynamics of Antarctic firn columns: comparison between simulations and ice core air- $\delta^{15}\text{N}$ measurements. *Climate of the Past*, **9**, (3), 983-999.

COLLINS, L.G.##, **ALLEN, C.S.**, PIKE, J.++, **HODGSON, D.A.**, WECKSTRÖM, K.##, MASSÉ, G.## 2013. Evaluating highly branched isoprenoid (HBI) biomarkers as a novel Antarctic sea-ice proxy in deep ocean glacial age sediments. *Quaternary Science Reviews*, **79**, 87-98.

DAHL-JENSEN, D.##, ALBERT, M.R.##, ALDAHAN, A.##, AZUMA, N.##, BALSLEV-CLAUSEN, D.##, BAUMGARTNER, M.##, BERGGREN, A.-M.##, BIGLER, M.##, BINDER, T.##, BLUNIER, T.##, BOURGEOIS, J.C.##, BROOK, E.J.##, BUCHARDT, S.L.##, BUIZERT, C.##, **CAPRON, E.**, CHAPPELLAZ, J.##, CHUNG, J.##, CLAUSEN, H.B.##, CVIJANOVIC, I.##, DAVIES, S.M.++, DITLEVSEN, P.##, EICHER, O.##, FISCHER, H.##, FISHER, D.A.##, FLEET, L.G.##, GFELLER, G.##, GKINIS, V.##, GOGINENI, S.##, GOTO-AZUMA, K.##, GRINSTED, A.##, GUDLAUGSDOTTIR, H.##, GUILLEVIC, M.##, HANSEN, S.B.##, HANSSON, M.##, HIRABAYASHI, M.##, HONG, S.##, HUR, S.D.##, HUYBRECHTS, P.##, HVIDBERG, C.S.##, IIZUKA, Y.##, JENK, T.##, JOHNSEN, S.J.##, JONES, T.R.##, JOUZEL, J.##, KARLSSON, N.B.##, KAWAMURA, K.##, KEEGAN, K.##, KETTNER, E.##, KIPFSTUHL, S.##, KJÆR, H.A.##, KOUTNIK, M.##, KURAMOTO, T.##, KÖHLER, P.##, LAEPPLÉ, T.##, LANDAIS, A.##, LANGEN, P.L.##, LARSEN, L.B.##, LEUENBERGER, D.##, LEUENBERGER, M.##, LEUSCHEN, C.##, LI, J.##, LIPENKOV, V.##, MARTINERIE, P.##, MASELLI, O.J.##, MASSON-DELMOTTE, V.##, MCCONNELL, J.R.##, MILLER, H.##, MINI, O.##, MIYAMOTO, A.##, MONTAGNAT-RENTIER, M.##, **MULVANEY, R.**, MUSCHELER, R.##, ORSI, A.J.##, PADEN, J.##, PANTON, C.##, PATTYN, F.##, PETIT, J.-R.##, **POL, K.**, POPP, T.##, POSSNERT, G.##, PRIÉ, F.##, PROKOPIOU, M.##, QUIQUET, A.##, RASMUSSEN, S.O.##, RAYNAUD, D.##, REN, J.##, REUTENAUER, C.##, RITZ, C.##, RÖCKMANN, T.##, ROSEN, J.L.##, RUBINO, M.##, RYBAK, O.##, SAMYN, D.##, SAPART, C.J.##, SCHILT, A.##, SCHMIDT, A.M.Z.##, SCHWANDER, J.##, SCHÜPBACH, S.##, SEIERSTAD, I.##, SEVERINGHAUS, J.P.##, SHELDON, S.##, SIMONSEN, S.B.##, SJOLTE, J.##, SOLGAARD, A.M.##, SOWERS, T.##, SPERLICH, P.##, STEEN-LARSEN, H.C.##, STEFFEN, K.##, STEFFENSEN, J.P.##, STEINHAGE, D.##, STOCKER, T.F.##, STOWASSER, C.##, STUREVIK, A.S.##, STURGES, W.T.++, SVEINBJÖRNSDOTTIR, A.##, SVENSSON, A.##, TISON, J.-L.##, UETAKE, J.##, VALLELONGA, P.##, VAN DE WAL, R.S.W.##, VAN DER WEL, G.##, VAUGHN,

B.H.##, VINTHER, B.##, WADDINGTON, E.##, WEGNER, A.##, WEIKUSAT, I.##, WHITE, J.W.C.##, WILHELMS, F.##, WINSTRUP, M.##, WITRANT, E.##, **WOLFF, E.W.**, XIAO, C.##, ZHENG, J.## 2013. Eemian interglacial reconstructed from a Greenland folded ice core. *Nature*, **493**, (7433), 489-494

DE VERNAL, A.##, GERSONDE, R.##, GOOSSE, H.##, SEIDENKRANTZ, M.-S.##, **WOLFF, E.W.** 2013. Sea ice in the paleoclimate system: the challenge of reconstructing sea ice from proxies – an introduction. *Quaternary Science Reviews*, **79**, 1-8.

ERBLAND, J.##, VICARS, W.C.##, SAVARINO, J.##, MORIN, S.##, **FREY, M. M.**, FROSINI, D.##, VINCE, E.##, MARTINS, J.M.F.## 2013. Air–snow transfer of nitrate on the East Antarctic Plateau - Part 1: Isotopic evidence for a photolytically driven dynamic equilibrium in summer. *Atmospheric Chemistry and Physics*, **13**, (13), 6403-6419

FERNANDEZ-CARAZO, R.##, VERLEYEN, E.##, **HODGSON, D.A.**, **ROBERTS, S.J.**, WALERON, K.##, VYVERMAN, W.##, WILMOTTE, A.## 2013. Late Holocene changes in cyanobacterial community structure in maritime Antarctic lakes. *Journal of Paleolimnology*, **50**, (1), 15-31.

FISCHER, H.##, SEVERINGHAUS, J.##, BROOK, E.##, **WOLFF, E.**, ALBERT, M.##, ALEMANY, O.##, **ARTHERN, R.**, BENTLEY, C.##, BLANKENSHIP, D.##, CHAPPELLAZ, J.##, CREYTS, T.##, DAHL-JENSEN, D.##, **DINN, M.**, FREZZOTTI, M.##, FUJITA, S.##, GALLEE, H.##, **HINDMARSH, R.**, HUDSPETH, D.##, JUGIE, G.##, KAWAMURA, K.##, LIPENKOV, V.##, MILLER, H.##, **MULVANEY, R.**, PARRENIN, F.##, PATTYN, F.##, RITZ, C.##, SCHWANDER, J.##, STEINHAGE, D.##, VAN OMMEN, T.##, WILHELMS, F.## 2013. Where to find 1.5 million yr old ice for the IPICS "Oldest-Ice" ice core. *Climate of the Past*, **9**, (6), 2489-2505. **Also under Ice Sheets.**

FLOWERDEW, M.J., TYRRELL, S.##, **PECK, V.L.** 2013. Inferring sites of subglacial erosion using the Pb isotopic composition of ice-rafted feldspar: examples from the Weddell Sea, Antarctica. *Geology*, **41**, (2), 147-150. **(Also under ECE)**

FOLEY, A.M.++, DALMONECH, D.##, FRIEND, A.D.++, AIRES, F.##, ARCHIBALD, A.++, BARTLEIN, P.##, BOPP, L.##, CHAPPELLAZ, J.##, COX, P.++, EDWARDS, N.R.++, FEULNER, G.##, FRIEDLINGSTEIN, P.++, HARRISON, S.P.++, HOPCROFT, P.O.++, JONES, C.D.%, KOLASSA, J.##, **LEVINE, J.G.**, PRENTICE, I.C.##, PYLE, J.++, VÁZQUEZ RIVEIROS, N.++, **WOLFF, E.W.**, ZAEHLE, S.## 2013. Evaluation of biospheric components in Earth system models using modern and palaeo observations: the state-of-the-art. *Biogeosciences*, **10**, (12), 8305-8328.

FREY, M.M., **BROUGH, N.**, FRANCE, J.L.++, **ANDERSON, P.S.**, TRAULLE, O.##, KING, M. D.++, **JONES, A.E.**, **WOLFF, E.W.**, SAVARINO, J.## 2013. The diurnal variability of atmospheric nitrogen oxides (NO and NO₂ above the Antarctic Plateau driven by atmospheric stability and snow emissions. *Atmospheric Chemistry and Physics*, **13**, (6), 3045-3062.

GUILLEVIC, M.##, BAZIN, L.##, LANDAIS, A.##, KINDLER, P.##, ORSI, A.##, MASSON-DELMOTTE, V.##, BLUNIER, T.##, BUCHARDT, S. L.##, **CAPRON, E.**, LEUENBERGER, M.##, MARTINERIE, P.##, PRIÉ, F.##, VINTHER, B. M.## 2013.

Spatial gradients of temperature, accumulation and $\delta^{18}\text{O}$ -ice in Greenland over a series of Dansgaard–Oeschger events *Climate of the Past*, **9**, (3), 1029-1051.

HODGSON, D.A., BENTLEY, M.J.++ 2013. Lake highstands in the Pensacola Mountains and Shackleton Range 4300-2250 cal. yr BP: Evidence of a warm climate anomaly in the interior of Antarctica. *The Holocene*, **23**, (3), 388-397.

HODGSON, D.A., ROBERTS, S.J., SMITH, J.A., VERLEYEN, E.##, STERKEN, M.##, LABARQUE, M.##, SABBE, K.##, VYVERMAN, W.##, ALLEN, C.S., LENG, M.J.**, BRYANT, C.** 2013. Late Quaternary environmental changes in Marguerite Bay, Antarctic Peninsula, inferred from lake sediments and raised beaches. *Quaternary Science Reviews*, **68**, 216-236. (Also under Ice Sheets)

JONES, A.E., WOLFF, E.W., BROUGH, N., BAUGUITTE, S.J.-B., WELLER, R.##, YELA, M.##, NAVARRO-COMAS, M.##, OCHOA, H.A.##, THEYS, N.## 2013. The spatial scale of ozone depletion events derived from an autonomous surface ozone network in coastal Antarctica. *Atmospheric Chemistry and Physics*, **13**, (3), 1457-1467.

KOHFELD, K.E.##, GRAHAM, R.M.##, DE BOER, A.M.##, SIME, L.C., WOLFF, E.W., LE QUÉRÉ, C.++, BOPP, L.## 2013. Southern Hemisphere westerly wind changes during the Last Glacial Maximum: paleo-data synthesis. *Quaternary Science Reviews*, **68**, 76-95.

LANDAIS, A.##, DREYFUS, G.##, CAPRON, E., JOUZEL, J.##, MASSON-DELMOTTE, V.##, ROCHE, D.M.##, PRIÉ, F.##, CAILLON, N.##, CHAPPELLAZ, J.##, LEUENBERGER, M.##, LOURANTOU, A.##, PARRENIN, F.##, RAYNAUD, D.##, TESTE, G.## 2013. Two-phase change in CO₂, Antarctic temperature and global climate during Termination II. *Nature Geoscience*, **6**, (12), 1062-1065.

MASCLIN, S.##, FREY, M.M., ROGGE, W.F.##, BALES, R.C.## 2013. Atmospheric nitric oxide and ozone at the WAIS Divide deep coring site: a discussion of local sources and transport in West Antarctica. *Atmospheric Chemistry and Physics*, **13**, (17), 8857-8877.

PREUNKERT, S.##, LEGRAND, M.##, PÉPY, G.##, GALLÉE, H.##, JONES, A., JOURDAIN, B.## 2013. The atmospheric HCHO budget at Dumont d'Urville (East Antarctica), Contribution of photochemical gas-phase production versus snow emissions. *Journal of Geophysical Research, Atmospheres*, **118**, (23), 13,319-13,337.

ROYLES, J., SIME, L.C., HODGSON, D.A., CONVEY, P., GRIFFITHS, H.++ 2013. Differing source water inputs, moderated by evaporative enrichment, determine the contrasting $\delta^{18}\text{O}$ CELLULOSE signals in maritime Antarctic moss peat banks. *Journal of Geophysical Research: Biogeosciences*, **118**, (1), 184-194. (Also under Ecosystems)

ROYLES, J., OGÉE, J.##, WINGATE, L.++, **HODGSON, D.A., CONVEY, P., GRIFFITHS, H.++** 2013. Temporal separation between CO₂ assimilation and growth? Experimental and theoretical evidence from the desiccation-tolerant moss *Syntrichia ruralis*. *New Phytologist*, **197**, (4), 1152-1160. (Also under Ecosystems)

ROYLES, J., AMESBURY, M.J.++, **CONVEY, P., GRIFFITHS, H.++**, **HODGSON, D.A., LENG, M.J.++**, **CHARMAN, D.J.++** 2013. Plants and soil microbes respond to recent

warming on the Antarctic Peninsula. *Current Biology*, **23**, (17), 1702-1706. (Also under **AFI and Ecosystems**)

SAUNDERS, K.M.##, GROSJEAN, M.##, **HODGSON, D.A.** 2013. A 950 yr temperature reconstruction from Duckhole Lake, southern Tasmania, Australia. *The Holocene*, **23**, (6), 771-783.

SAUNDERS, K.M.##, HARRISON, J.J.##, BUTLER, E.C.V.##, **HODGSON, D.A.**, McMINN, A.## 2013. Recent environmental change and trace metal pollution in World Heritage Bathurst Harbour, southwest Tasmania, Australia. *Journal of Paleolimnology*, **50**, (4), 471-483.

SIGL, M.##, McCONNELL, J.R.##, LAYMAN, L.##, MASELLI, O.##, MCGWIRE, K.##, PASTERIS, D.##, DAHL-JENSEN, D.##, STEFFENSEN, J.P.##, VINTHER, B.##, EDWARDS, R.##, **MULVANEY, R.**, KIPFSTUHL, S.## 2013. A new bipolar ice core record of volcanism from WAIS Divide and NEEM and implications for climate forcing of the last 2000 years. *Journal of Geophysical Research: Atmospheres*, **118**, (3), 1151-1169

SIME, L.C., KOHFELD, K.E.##, LE QUÉRÉ, C.++, **WOLFF, E.W.**, DE BOER, A.M.##, GRAHAM, R.M.##, BOPP, L.## 2013. Southern Hemisphere westerly wind changes during the Last Glacial Maximum: model-data comparison. *Quaternary Science Reviews*, **6**, (4), 104-120.

SIME, L.C., RISI, C.##, TINDALL, J.C.++, SJOLTE, J.##, **WOLFF, E.W.**, MASSON-DELMOTTE, V.##, **CAPRON, E.** 2013. Warm climate isotopic simulations: what do we learn about interglacial signals in Greenland ice cores? *Quaternary Science Reviews*, **67**,. 59-80.

SUN, L.G.##, EMSLIE, S.D.##, HUANG, T.##, BLAIS, J.M.##, XIE, Z.Q.##, LIU, X.D.##, YIN, X.B.##, WANG, Y.H.##, HUANG, W.##, **HODGSON, D.A.**, SMOL, J.P. 2013. Vertebrate records in polar sediments: Biological responses to past climate change and human activities. *Earth-Science Reviews*, **126**, 147-155.

THOMAS, E.R., BRACEGIRDLE, T.J, **TURNER, J.**, **WOLFF, E.W.** 2013. A 308-year record of climate variability in West Antarctica. *Geophysical Research Letters*, **40**, (20), 5492-5496.

VERES, D.##, BAZIN, L.##, LANDAIS, A.##, TOYÉ MAHAMADOU KELE, H.##, LEMIEUX-DUDON, B.##, PARRENIN, F.##, MARTINERIE, P.##, BLAYO, E.##, BLUNIER, T.##, **CAPRON, E.**, CHAPPELLAZ, J.##, RASMUSSEN, S.O.##, SEVERI, M.##, SVENSSON, A.##, VINTHER, B.##, **WOLFF, E.W.** 2013. The Antarctic ice core chronology (AICC2012): an optimized multi-parameter and multi-site dating approach for the last 120 thousand years. *Climate of the Past*, **9**, (4), 1733-1748.

Wolff, E.W. 2013. Ice sheets and nitrogen. *Philosophical Transactions of the Royal Society (B)*, **368**, (1621).

Other refereed

PEARCE, D.A., HODGSON, D.A., THORNE, M.A.S., BURNS, G., COCKELL, C.S.++ 2013. Preliminary analysis of life within a former subglacial lake sediment in Antarctica. *Diversity*, **5**, (3), 680-702. (Also under Ecosystems and AFI)

Book chapters

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.##, GEIRSDÓTTIR, A.##, 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.** 2013. Paleoclimate, Paleoclimate history of the Arctic. In: *Encyclopedia of Quaternary Science*, Elsevier, 113-125.

MULVANEY, R. 2013. Ice core methods, conductivity studies. In: SCOTT, E.A., (ed.) *Encyclopedia of Quaternary Science*, Elsevier, 319-325.

Unrefereed publications

ABRAM, N. 2013. Sharp rise in summer melt on Antarctic Peninsula. *Planet Earth*, Summer, 6.

AMESBURY, M.++, **ROYLES, J.** 2013. Unlocking the secrets of Antarctic moss banks. *Planet Earth*, Summer, 24-25.

CAPRON, E., LANDAIS, A.##, TZEDAKIS, P.C.++, BARD, E.##, BLUNIER, T.##, DAHL-JENSEN, D.##, DOKKEN, T.##, GERSONDE, R.##, PARRENIN, F.##, SCHULZ, M.##, VINTHER, B.##, WAELBROECK, C.## 2013. Dating and synchronizing paleoclimatic records over the last interglacial. *PAGES News*, **21**, (1), 26-27.

DAHL-JENSEN, D.##, **CAPRON, E.**, STONE, E.++ 2013. Editorial: Past4Future – learning from interglacials. *PAGES News*, **21**, (1), 2-3.

DE VERNAL, A.##, **WOLFF, E.W.**, GERSONDE, R.## 2013. Sea ice in the paleoclimate system. 1st Sea Ice Proxies (SIP) Working Group workshop, Montreal, Canada, 7-9 March 2012. *PAGES News*, **21**, (1), 43-44.

FISCHER, H.##, **WOLFF, E.W.** 2013. Modes of variability in the climate system: Past-Present-Future. European Science Foundation Conference - Ötztal, Austria, 27 May - 1 June 2012. *PAGES News*, **21**, (1), 41.

MASSON-DELMOTTE, V.##, **CAPRON, E.**, GOOSSE, H.##, POL, K.##, SIDDALL, M.++, **SIME, L.**, BRADLEY, S.++, STENNI, B.## 2013. Antarctic interglacial climate variability and implications for changes in ice sheet topography. *PAGES News*, **21**, (1), 18-19.

SIME, L.C., MASSON-DELMOTTE, V.##, RISI, C.##, SJOLTE, J.## 2013. Sea surface temperature controls on warm climate water isotopes in Greenland ice cores. *PAGES News*, **21**, (1), 28-29.

THOMAS, L., ALLEN, C. 2013. A climatic history of West Antarctica. *International Innovation*, October, 15-17.

TZEDAKIS, P.C.##, McMANUS, J.F.##, RAYNAUD, D##., HODELL, D.A.++, SKINNER, L.C.++, **WOLFF, E.W.** 2013. The 4th PAGES Past Interglacials Workshop. Department of Earth Sciences, University of Cambridge, Cambridge, UK, 2-5 July 2012. *PAGES News*, **21**, (1), 42.

Climate

Refereed research papers 2013 listed in ISI database

BARRAND, N.E., VAUGHAN, D.G., STEINER, N.##, TEDESCO, M.##, KUIPERS MUNNEKE, P.##, VAN DEN BROEKE, M.R.##, **HOSKING, J.S.** 2013. Trends in Antarctic Peninsula surface melting conditions from observations and regional climate modelling. *Journal of Geophysical Research: Earth Surface*, **118**, (1), 315-330. (Also under **Ice Sheets**)

BERTONI, F.C.P.##, RAULIN, J.-P.##, RIVERO GAVILÁN, H.##, KAUFMANN, P.##, RODRIGUEZ, R.##, **CLILVERD, M.**, CARDENAS, J.S.##, FERNANDEZ, G.## 2013. Lower ionosphere monitoring by the South America VLF Network (SAVNET): C-region occurrence and atmospheric temperature variability. *Journal of Geophysical Research: Space Physics*, **118**, (10), 6686-6693.

BRACEGIRDLE, T.J. 2013. Climatology and recent increase of westerly winds over the Amundsen Sea derived from six reanalyses. *International Journal of Climatology*, **33**, (4), 843-851.

BRACEGIRDLE, T.J., STEPHENSON, D.B.++ 2013. On the robustness of emergent constraints used in multimodel climate change projections of Arctic warming. *Journal of Climate*, **26**, (2), 669-678

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