

CANADIAN ANTARCTIC BIBLIOGRAPHY, 2010–11*

(authors with Canadian affiliations are underlined)

compiled by

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- Abbasi, R. and 252 others (the IceCube Collaboration, including D. Grant). 2010. First search for extremely high energy cosmogenic neutrinos with the IceCube Neutrino Observatory. *Phys. Rev. D*, **82**(7), 072003. (10.1103/PhysRevD.82.072003.)
- Abbasi, R. and 260 others (the IceCube Collaboration, including D. Grant). 2010. Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube. *Phys. Rev. D*, **82**(11), 112003. (10.1103/PhysRevD.82.112003.)
- Abbasi, R. and 260 others (the IceCube Collaboration, including D. Grant). 2011. Measurement of the atmospheric neutrino energy spectrum from 100 GeV to 400 TeV with IceCube. *Phys. Rev. D*, **83**(1), 012001. (10.1103/PhysRevD.83.012001.)
- Abbasi, R. and 262 others (the IceCube Collaboration, including D. Grant and T.R. Wood). 2011. Constraints on the extremely-high energy cosmic neutrino flux with the IceCube 2008-2009 data. *Phys. Rev. D*, **83**(9), 092003. (10.1103/PhysRevD.83.092003.)
- Abbasi, R. and 263 others (the IceCube Collaboration, including D. Grant). 2011. Limits on neutrino emission from gamma-ray bursts with the 40 string IceCube detector. *Phys. Rev. Lett.*, **106**(14), 141101. (10.1103/PhysRevLett.106.141101.)
- Abele, D. and 15 others (including I. Schloss). 2010. An interdisciplinary approach to climate and coastal systems changes on King George Island. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC43E-1002. (digital media.) (www.agu.org/cgi-bin/wais?ss=GC43E-1002.)
- Abele, D. and 11 others (including I. Schloss). 2010. Rapid climate related change at King-George Island: an interdisciplinary approach to coastal systems change. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 2.)
- Ainley, D. and 10 others (including L.K. Blight). 2010. Impacts of cetaceans on the structure of Southern Ocean food webs. *Mar. Mammal Sci.*, **26**(2), 482–498.
- Aislabie, J. and J.M. Foght. 2010. Chapter 9. Response of polar soil bacterial communities to fuel spills. In Bej, A.K., J. Aislabie and R.M. Atlas, eds. *Polar microbiology: the ecology, biodiversity and bioremediation potential of microorganisms in extremely cold environments*. Boca Raton, FL, CRC Press; Routledge, Taylor & Francis, 215–230.
- Albrecht, T., M. Martin, M. Haseloff, R. Winkelmann and A. Levermann. 2011. Parameterization for subgrid-scale motion of ice-shelf calving fronts. *Cryosphere (TC)*, **5**(1), 35–44.
- Alderkamp, A. and 9 others (including C.D. Payne and P.D. Tortell). 2010. The control of phytoplankton primary productivity in the Amundsen Sea by nitrogen, iron and light. [Abstract IT44C-03.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., digital media. (www.agu.org/meetings/os10.)
- Alexander, S.P. and M.G. Shepherd. 2010. Planetary wave activity in the polar lower stratosphere. *Atmos. Chem. Phys.*, **10**(2), 707–718.

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- Allcock, A.L. *and 8 others* (including D. Steinke). 2010. Cryptic speciation and the circumpolarity debate: a case study on endemic Southern Ocean octopuses using the COI barcode of life. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 22.)
- Allcock, A.L. *and 8 others* (including D. Steinke). 2011. Cryptic speciation the circumpolarity debate: a case study on endemic Southern Ocean octopuses using the COI barcode of life. *Deep-Sea Res. II*, **58**(1–2), 242–249.
- Andersson, K. *and 61 others* (SPT Collaboration, including T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2011. X-ray properties of the first SZE-selected galaxy cluster sample from the South Pole Telescope. *Astrophys. J.*, submitted. (<http://arxiv.org/abs/1006.3068>.)
- Angiel, P.J. and M. Korczak. 2010. Glaciers retreat in ASPA-151 in the period 1988–2009 (Lions Rump, King George Island, South Shetland Island, Antarctica). *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382347.
- Angiel, P.J., M. Korczak and A. Gasek. 2010. Changes of the size of the penguin and pinniped populations in ASPA-151(Lions Rump, King George Island, South Shetland Island, Antarctica). *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382500.
- Angiel, P.J., M. Potocki and J. Biszczuk-Jakubowska. 2010. Weather condition characteristics at the H. Arctowski Station (South Shetlands, Antarctica) for 2006, in comparison with multi-year research result. *Misc. Geogr.*, **14**, 5-11.
- Ansorge, I.J., E.A. Pakhomov, S. Kaehler, J.R.E. Lutjeharms and J.V. Durgadoo. 2010. Physical and biological coupling in eddies in the lee of the South-West Indian Ridge. *Polar Biol.*, **33**(6), 747–759.
- Anstey, J.A., T.G. Shepherd and J.F. Scinocca. 2010. Influence of the quasi-biennial oscillation on the extratropical winter stratosphere in an atmospheric general circulation model and in reanalysis data. *J. Atmos. Sci.*, **67**(5), 1402–1419
- Antoniades, D., J.M. Blais, M. Toro, R. Pienitz, A. Quesada and W.F. Vincent. 2010. Reconstructing past abundances of southern elephant seals from Byers Peninsula, Livingston Island from the sedimentary record. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 34.)
- Austin, J. *and 37 others* (including J.F. Scinocca, D.A. Plummer and T.G. Shepherd). 2010. Chemistry-climate model simulations of spring Antarctic ozone. *J. Geophys. Res.*, **115**, Special Section, D00M11. (10.1029/2009JD013577.)
- Austin, J. *and 34 others* (including J. Scinocca and T.G. Shepherd). 2010. Decline and recovery of total column ozone using a multimodel time series analysis. *J. Geophys. Res.*, **115**, Special Section, D00M10. (10.1029/2010JD013857.)
- Baeseman, J. *and 9 others* (including B.G.T. Else). 2011. Chapter 4.3. Early career researcher activities during IPY. In Krupnik, I. *and others* (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 511–522. (CCI Occasional Publication 69.)
- Baeseman, J. *and 7 others* (including K. Fischer, D. Hik and K.K. Sloan). 2011. Chapter 5.6. Shaping the future. In Krupnik, I. *and 8 others* (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 609–627. (CCI Occasional Publication 69.)

- Barber, L.M.J. 2010. Projet Ant-Arctique – a classroom approach to polar research. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 385861.
- Barker, H.W. and A.V. Korolev. 2010. An update on blue snow holes. *J. Geophys. Res.*, **115**(D18), D18211. (10.1029/2009JD013085.)
- Barker, J.D., J.L. Klassen, M.J. Sharp, S.J. Fitzsimons and R.J. Turner. 2010. Detecting biogeochemical activity in basal ice using fluorescence spectroscopy. *Ann. Glaciol.*, **52**(56), 47–55.
- Bastmeijer, C.J., P.T. Maher, J. O'Reilly and T. Tin. 2010. Public perception of the Antarctic wilderness: initial data from an educated, environmentally knowledgeable, European community. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 380274.
- Bathmann, U., L. von Harbou, S. Krägefsky, S. Kruse, B. Meyer and E. Pakhomov. 2010. Pelagic ecosystem dynamics in the Lazarev Sea, Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 362190.
- Beaulieu, L., A. Juan and P. Boissonnet. 2010. *Antarctica: espace(s) de fragilité. Galerie d'art du Parc.* Trois-Rivières, Qué., Université du Québec à Trois-Rivières. Arts visuels.
- Bell, R.E., I. Krupnik, D. Hik, K.D. Alverson and M.R. Drinkwater. 2010. Building on IPY data, collaborations and infrastructure to understand the changing poles. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC11A-01. (digital media.) (www.agu.org/cgi-bin/wais?ss=GC11A-01.)
- Blight, L.K. and 32 others (including I. Stirling). 2010. Fishing for data in the Ross Sea. *Science*, **330**(6009), 1316.
- Bliss, A.K., K.M. Cuffey and J.L. Kavanaugh. 2011. Sublimation and surface energy budget of Taylor Glacier, Antarctica. *J. Glaciol.*, **57**(204), 684–696.
- Block, A.E., R.E. Bell, G.E. Flowers, S. Pimentel, M. Studinger and N. Frearson. 2010. The role of subglacial lakes in the onset and maintenance of Recovery Ice Stream, East Antarctica. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore, Maryland, USA*. Washington, DC, American Geophysical Union, 12. (Abstract.) (www.agu.org/meetings/chapman/2010/ccall/pdf/Program_Book.pdf.)
- Briggs, R., D. Pollard and L. Tarasov. 2011. Bayesian calibration of a 3D glacial systems model for the past evolution of the Antarctic ice sheet. *Geophys. Res. Abstr.*, **13**, 2011 EGU General Assembly, EGU2011-907.
- Brodwin, M. and 66 others (SPT Collaboration, including T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. SPT-CL J0546-5345: a massive $z>1$ galaxy cluster selected via the Sunyaev-Zel'dovich effect with the South Pole Telescope. *Astrophys. J.*, **721**(1), 90–97.
- Bromwich, D. and 11 others (including H. Hung and J. Zheng). 2011. Chapter 2.1. Polar atmosphere. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 137–154. (CCI Occasional Publication 69.)
- Bury, S., M. Pinkerton, E.A. Pakhomov, D. Thompson, J. Johnson and J. Brown. 2010. What effect does the lipid-extraction process have on Ross Sea Antarctic toothfish (*Dissostichus mawsoni*) stable isotope data? *VII International Conference on Applications of Stable Isotope Techniques to Ecological Studies (ISOECOL VII), 9–13 August 2010, University of Alaska, Fairbanks, USA*, presentation.

- Bush, A. 2010. The role of Antarctica in the climate system. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May--4 June/31 mai--4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés.* Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 341. (Abstract 3886.)
- Campana, G.L. and 7 others (including G.A. Ferreyra). 2010. Impacts of UV radiation and grazers on the colonization of marine benthic primary producers in Antarctica (Part II: subtidal communities). *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 113.)
- Campana, G.L., M.L. Quartino, G. Ferreyra and F. Momo. 2010. Ultraviolet radiation influences the feeding behaviour and grazing rate of a common Antarctic benthic amphipod. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 114.)
- Canadian Polar Commission. 2010. Canada–Argentina agreement. *CARN Newsl.*, **29**, 1–2.
- Canadian Polar Commission. 2010. Wilhelmina Roa Clavano – SCAR Fellow. *CARN Newsl.*, **28**, 12.
- Carnat, G. and 13 others (including L. Miller, W.K. Johnson and T. Papakyriakou). 2010. Measuring climate-active gases in early spring Antarctic sea ice, the SIMBA project. *CARN Newsl.*, **29**, 5–10.
- Chang, C. and 43 others (SPT Collaboration including T. de Haan, M.A. Dobbs, G.P. Holder, T.M. Lanting, L. Shaw and K. Vanderlinde). 2010. SPT-SZ: a Sunyaev-Zel'dovich survey for galaxy clusters. In Young, B., A. Miller and B. Cabrera, eds. *The Thirteenth International Workshop on Low Temperature Detectors - LTD 13, 20–24 July 2009, Stanford, California.* New York, NY, etc., Springer. American Institute of Physics, 475–477. (AIP Conference Proceedings 1185.)
- Lee, C.I., E. Pakhomov, A. Atkinson and V. Siegel. 2010. Long-term relationships between the marine environment, krill and salps in the Southern Ocean. *J. Mar. Biol.*, **2010**, Article ID 410129. (10.1155/2010/410129.)
- Clavano, W.R. 2010. *Snow over ice: ground measurements for satellite validation of snow layering over land ice and snow thickness over sea ice around McMurdo Sound, Antarctica.* Cambridge, U.K., Scientific Committee on Antarctic Research. (SCAR Fellowship Report.)
- Cochran, J.R., R.E. Bell, N. Frearson and S. Elieff. 2010. Inversion of IceBridge gravity data for continental shelf bathymetry beneath the Larsen Ice Shelf. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA.* Washington, DC, American Geophysical Union, C14A-05. (digital media.) (www.agu.org/cgi-bin/wais?ss=C14A-05.)
- Cochran, J.R., R.E. Bell, M. Studinger, N. Frearson and S. Elieff. 2010. Inversion of IceBridge gravity data for continental shelf bathymetry beneath the Larsen Ice Shelf. *WAIS 2010, Seventeenth Annual WAIS Workshop, 22–25 September 2010, Raystown, PA. Agenda & abstracts.* Greenbelt, MD, NASA/Goddard Space Flight Center, digital media, 14. (<http://neptune.gsfc.nasa.gov/wais/pastmeetings/abstracts10.pdf>.)
- Cogley, J.G., E. Berthier and S. Donoghue. In press. Glaciers of the Subantarctic islands. In Kargel, J.S., M.P. Bishop, A. Kääb, B.H. Raup and G. Leonard, eds. *Global land ice measurements from space: satellite multispectral imaging of glaciers.* New York, etc, Springer-Praxis.
- Colville, E.J., A.E. Carlson, B.L. Beard, J.S. Stoner and C. Hillaire-Marcel. 2010. Relative contributions of Greenland and Antarctica ice to the MIS 5e sea level highstand. *40th International Arctic Workshop, 10–12 March 2010, Winter Park, Colorado. Program with abstracts.* Boulder, CO, University of Colorado. Institute of Arctic and Alpine Research, digital media. (http://instaar.colorado.edu/AW/abstract_details.php?abstract_id=15.)
- Colville, E.J., A.E. Carlson, B.L. Beard, J.S. Stoner and C. Hillaire-Marcel. 2010. Relative Greenland and Antarctic ice sheet contributions to sea level during Marine Isotope Stage 5e. *Goldschmidt 2010: Earth, Energy & Environment, 13–18 June 2010, Knoxville, Tennessee. Abstracts.* Cambridge, UK, Cambridge

- Publications. European Association of Geochemistry and Geochemical Society, A186.
- Conlan, K.E., S.L. Kim, A.R. Thurber and E. Hendrycks. 2010. Benthic changes at McMurdo Station, Antarctica following local sewage treatment and regional iceberg-mediated productivity decline. *Mar. Pollut. Bull.*, **60**(3), 419–432.
- Crevier, Y., M. Drinkwater and K. Jezek. 2010. IPY-STG SAR coordination group synopsis and lessons learned. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382880.
- Crevier, Y., G. Rigby, D. Werle, K. Jezek and D. Ball. 2010. A RADARSAT-2 snapshot of Antarctica during the 2007–08 IPY. *CARN Newsl.*, **28**, 1–5.
- Creyts, T.T. and C. Schoof. 2010. Drainage of subglacial water systems beneath ice sheets. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore, Maryland, USA*. Washington, DC, American Geophysical Union, 15–16. (Abstract.)
- Curtosi, A., E. Pelletier, C.L. Vodopivec, R. St-Louis and W.P. Mac Cormack. 2010. Presence and distribution of some persistent toxic substances in sediments and marine organisms of Potter Cove, Antarctica. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 184.)
- Cutler, P. and 18 others (including B. Goodison). 2011. Chapter 1.4. Planning for IPY: a collaborative venture. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 69–86. (CCI Occasional Publication 69.)
- Danell, K. and 9 others (including G.G. Gauthier and M.J. Gill). 2011. Chapter 2.9. Polar terrestrial ecology and biodiversity. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 293–310. (CCI Occasional Publication 69.)
- Darlington, A.L., T.S. James and E.R. Ivins. 2010. A comparison of observed Antarctic uplift rates with postglacial rebound model predictions. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C21C-0563. (digital media.) (www.agu.org/cgi-bin/wais?ss=C21C-0563.)
- Daidsen, J. and J. Griffin. 2010. Volatility of unevenly sampled fractional Brownian motion: an application to ice core records. *Phys. Rev. E*, **81**(1), 016107. (10.1103/PhysRevE.81.016107.)
- De Bruin, T.F., K. Finney, S. Gordon, H. Campbell and SCADM members. 2010. SCADM, promoting and curating the vital data legacy of Antarctica. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 197.) (SCADM members include P.L. Pulsifer.)
- De Bruin, T.F. and 6 others (including S. Tomlinson and E. LeDrew). 2010. The state of polar data. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 196.)
- Delille, D., É. Pelletier and F. Coulon. 2010. Chapter 13. Do fertilizers help in effective bioremediation of polycyclic aromatic hydrocarbons in polar soils? In Bej, A.K., J. Aislabie and R.M. Atlas, eds. *Polar microbiology: the ecology, biodiversity and bioremediation potential of microorganisms in extremely cold environments*. Boca Raton, FL, CRC Press; Routledge, Taylor & Francis, 301–318.
- Delille, B. and 13 others (including G. Carnat). 2010. Air–sea ice CO₂ fluxes: a tentative upscaling. [Abstract CO35C-03.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., digital media.

(www.agu.org/meetings/os10.)

- Déry, S.J. 2010. Snow sublimation on Ekström Ice Shelf. *CARN Newsl.*, **29**, 2.
- Dey Nuttall, A. 2010. Canada's approach to Antarctica: Arctic state and polar player? *CARN Newsl.*, **28**, 8–12.
- Di Fiori, E. *and 7 others* (including I.R. Schloss and G.A. Ferreyra). 2010. The role of phytoplankton in carbon dioxide exchange between the atmosphere and the ocean in the Weddell Sea. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 206.)
- Dickson, G. 2010. Arctic Kingdom expands into Antarctic polar logistics. *CARN Newsl.*, **29**, 3.
- DiTullio, G.R. *and 10 others* (including P.D. Tortell). 2010. Controls on Ross Sea Algal Community Structure (CORSACS). [Abstract IT44C-01.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., digital media. (www.agu.org/meetings/os10.)
- DiTullio, G.R. *and 8 others* (including P.D. Tortell). 2010. CORSACS: controls on Ross Sea algal community structure. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 213.)
- Donovan, E.F. 2010. The future of global auroral imaging. [Abstract SM41C-05.] *Eos, Trans. AGU*, **91**(26), Meet. Am. Suppl., digital media. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Doran, P.T. and W.F. Vincent. 2010. Environmental protection and stewardship of subglacial aquatic environments. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore, Maryland, USA*. Washington, DC, American Geophysical Union, 16–17. (Abstract.)
- Douglas, M. 2010. Message from CCAR's Chair. *CARN Newsl.*, **28**, 6–7.
- Downes, S.M., A. Gnanadesikan, J.L. Sarmiento, S.M. Griffies and E.D. Galbraith. 2010. Southern Ocean lower limb water mass transformation in a coarse-resolution coupled model. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 372964.
- Dubnick, A. *and 7 others* (including M. Sharp). 2010. Characterization of dissolved organic matter (DOM) from glacial environments using total fluorescence spectroscopy and parallel factor analysis. *Ann. Glaciol.*, **52**(56), 111–122.
- Elmendorf, S.C., G.H.R. Henry and the Tundra Vegetation Change Group. 2010. Recent tundra vegetation change: results of plot based monitoring across the tundra biome. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON*. Québec, Qué., Université Laval. ArcticNet Inc., 56–57.
- Emslie, S.D., M.J. Polito and W.P. Patterson. 2010. Stable isotope analyses of ancient penguin tissues support the krill surplus hypothesis in Antarctica. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, B11H-03. (digital media.) (www.agu.org/cgi-bin/wais?ss=B11H-03.)
- Engebretson, M.J., I.R. Mann, T. Raita, K.-H. Glassmeier, A. Keiling and H. Rème. 2010. EMIC waves observed during the July 2009 geomagnetic storm. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 379923.
- Fedak, M.A. *and 14 others* (including M. Hammill, G. Stenson and A. Rosing-Asvid). 2010. MEOP: an example of a large-scale investigation of marine animal habitats. [Abstract BO45G-07.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., digital media. (www.agu.org/meetings/os10/waisos10.html.)

- Feng, X. and 8 others (including A.J. Simpson, E.G. Gregorich and M.J. Simpson). 2010. Chemical characterization of microbial-dominated soil organic matter in the Garwood Valley, Antarctica. *Geochim. Cosmochim. Acta*, **74**(22), 6485–6498.
- Ferreyra, G.A., I.R. Schloss, M.P. Hernando, E.A. Hernández and S. Demers. 2010. Evidence of ultraviolet B effects on Antarctic coastal phytoplankton and bacterioplankton from an *in situ* field experiment. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 252.)
- Fily, M. and 13 others (including P. Cliche, A. Langlois, B. Montpetit, A. Roy and A. Royer). 2010. A set of devices to acquire vertical profiles of snow specific surface area. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON*. Québec, Qué., Université Laval. ArcticNet Inc., 117.
- Flores, H., J.A. van Franeker, V. Siegel, E.A. Pakhomov, B. Hunt and S. Kruse. 2010. The penguin's fridge. The significance of the under-ice habitat to the Antarctic pelagic ecosystem. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 375374.
- Floricioiu, D., K. Jezek, Y. Crevier and M. Gottwald. 2010. Observations of ice sheets with TerraSAR-X during the IPY. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 380761.
- Flowers, G.E. 2010. Glacier hydromechanics: early insights and the lasting legacy of three works by Iken and colleagues. *J. Glaciol.*, **56**(200), 1069–1078.
- Foley, R.J. and 72 others (SPT Collaboration, including T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2011. Discovery and cosmological implications of SPT-CL J2106-5844, the most massive known cluster at $z > 1$. *Astrophys. J.*, **731**(2), 86. (10.1088/0004-637X/731/2/86.)
- Frank, T.D., Z. Gui and the ANDRILL SMS Science Team (including D.R. Schmitt). 2010. Cryogenic origin for brine in the subsurface of southern McMurdo Sound, Antarctica. *Geology* [Boulder], **38**(7), 587–590.
- Fukuchi, M. and K.E. Conlan. 2010. Xth SCAR International Biology Symposium on “Antarctic Biology in the 21st Century-Advances in and beyond IPY-”: a brief overview. *Polar Sci.*, **4**(2), 93–96.
- Fyke, J.G., L. Carter, A. Mackintosh, A.J. Weaver and K.J. Meissner. 2010. Surface melting over ice shelves and ice sheets as assessed from modeled surface air temperatures. *J. Climate*, **23**(7), 1929–1936.
- Geilfus, N.-X. and 7 others (including G. Carnat, B. Else, H. Thomas and E. Shadwick). 2010. Air–ice CO₂ fluxes and pCO₂ dynamics in the Arctic coastal area (Amundsen Gulf, Canada). *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-10167.
- Gelter, H., M. Lamers and P. Maher. 2010. Antarctic tourist experience - a comparison of SOI students with cruise tourists. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383078.
- Gerber, E.P. and 26 others (including D.A. Plummer, J.F. Scinocca and T.G. Shepherd). 2010. Stratosphere–troposphere coupling and annular mode variability in chemistry–climate models. *J. Geophys. Res.*, **115**, Special Section, D00M06. (10.1029/2009JD013770.)
- Gillett, N., V. Arora and K. Zickfeld. 2010. Climate evolution following a complete cessation of carbon dioxide emissions. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May–4 June/31 mai–4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 82. (Abstract 3660.)
- Gillett, N.P., V.K. Arora, K. Zickfeld, S.J. Marshall and W.J. Merryfield. 2011. Ongoing climate change following a complete cessation of carbon dioxide emissions. *Nature Geosci.*, **4**(2), 83–87

- Gleason, S. 2010. Towards sea ice remote sensing with space detected GPS signals: demonstration of technical feasibility and initial consistency check using low resolution sea ice Information. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA.* Washington, DC, American Geophysical Union, G53C-04. (digital media.) (www.agu.org/cgi-bin/wais?ss=G53C-04.)
- Gorman, K.B. and 7 others. 2010. A new high-latitude record for the macaroni penguin (*Eudyptes chrysolophus*) at Avian Island, Antarctica. *Polar Biol.*, **33**(8), 1155–1158.
- Gower, J.F.R. 2010. Comment on “Response of the global ocean to Greenland and Antarctic ice melting” by D. Stammer. *J. Geophys. Res.*, **115**(C10), C10009. (10.1029/2010JC006097.)
- Gower, J. and S. King. 2011. An apparent continuing increase in Antarctic “superblooms” in ice. *Geophys. Res. Lett.*, submitted.
- Granberg, H.B. 2010. Is Antarctica threatened by increasing CO₂? *CARN Newsl.*, **29**, 14–17.
- Grant, R.A., H.J. Griffiths, D. Steinke, V. Wadley and K. Linse. 2011. Antarctic DNA barcoding; a drop in the ocean? *Polar Biol.*, **34**(5), 775–780.
- Green, G. 2010. Students on Ice: the greatest classrooms on Earth. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON.* Québec, Qué., Université Laval. ArcticNet Inc., 18.
- Green, G. 2010. Chapter 7. Students on Ice: learning in the greatest classrooms on Earth. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 93–105.
- Green, G. and T. Straka. 2010. To the ends of the Earth: youth, education & science in the polar regions. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382726.
- Green, G. and T. Straka. 2010. To the ends of the Earth: youth, education & science in the polar regions. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382714.
- Green, G., L. Copland and T. Straka. 2010. University of the Antarctic: accredited field-courses with Students on Ice. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON.* Québec, Qué., Université Laval. ArcticNet Inc., 53–54.
- Green, G., T. Straka and N. Trudeau. 2010. Imiquitailaq – path of the Arctic tern. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383317.
- Gurney, L.J. and E.A. Pakhomov. 2010. An ecosystem model to explore population dynamics of top predators at the Prince Edward Islands (Southern Ocean). *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 327.)
- Gustafson, J. and S. Tacoma. 2010. Engaging youth – The Green I.C.E. Project. *Understanding Circumpolar Ecosystems in a Changing World: Outcomes of the International Polar Year, 3–6 November 2010, Edmonton, Alberta, Canada. Conference Program and Abstracts.* Edmonton, Alta, University of Alberta, digital media, 27.
- Haas, C. 2010. Chapter 4. Dynamics versus thermodynamics: the sea ice thickness distribution. In Thomas, D.N. and G.S. Dieckmann, eds. *Sea ice, Second edition.* Chichester, etc., Wiley-Blackwell, 113–151.
- Haberzettl, T. and 8 others (including A. Lisé-Pronovost). 2010. Patagonian and Antarctic dust as recorded in the sediments of Laguna Potrok Aike (Patagonia, Argentina). *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-1416.

- Hall, K. and M.-F. André. 2010. Some further observations regarding “cryoplanation terraces” on Alexander Island. *Ant. Sci.*, **22**(2), 175–183.
- Hall, K., I. Meiklejohn and A. Bumby. 2011. Marion Island volcanism and glaciation. *Ant. Sci.*, **23**(2), 155–163.
- Hall, N.R. *and 44 others* (SPT Collaboration including T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Angular power spectra of the millimeter-wavelength background light from dusty star-forming galaxies with the South Pole Telescope. *Astrophys. J.*, **718**(2), 632–646.
- Hamme, R.C. *and 10 others*. 2011. Dissolved O₂/Ar and other methods reveal rapid changes in productivity during a Lagrangian experiment in the Southern Ocean. *J. Geophys. Res.*, **116**(C), submitted.
- Hanna, T. 2010. Icy cold helps Antarctic scientists. *The Gazette, Montréal*, Monday, 10 May.
- Hart, K.M. *and 7 others* (including W.C. Mahaney). 2011. A bacterial enrichment study and overview of the extractable lipids from paleosols in the Dry Valleys, Antarctica: implications for future Mars reconnaissance. *Astrobiology*, **11**(4), 303–321.
- Hay, C., J. Mitrovica, R.E. Kopp, S.M. Griffies, J. Yin and R.J. Stouffer. 2010. Detecting the sea-level fingerprint of polar ice mass changes. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, G53A-0699. (digital media.) (www.agu.org/cgi-bin/wais?ss=G53A-0699.)
- Helmig, D. *and 11 others* (including J.W. Bottenheim). 2010. Volatile organic compounds in the global atmosphere. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, A41J-05. (digital media.) (www.agu.org/cgi-bin/wais?ss=A41J-05.)
- Hendry, K.R. *and 7 others* (including R.B. Georg). 2011. Silicon isotopes in Antarctic sponges: an interlaboratory comparison. *Ant. Sci.*, **23**(1), 34–42.
- Hernández, E.A., G.A. Ferreyra, S. Vazquez, L.A. Ruberto, S. Coria and W.P. Mac Cormack. 2010. The vertical mixing as a regulating factor of the UVR effects on bacterioplankton from an Antarctic marine coastal environment. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 341.)
- Hernando, M., I. Schloss, G. Malanga, P. S., M. Hoffmeyer and G. Ferreyra. 2010. Impact of coastal meltwaters on the Antarctic phytoplankton. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 343.)
- Hezaveh, Y.D. and G.P. Holder. 2011. Effects of strong gravitational lensing on millimeter-wave galaxy number counts. *Astrophys. J.*, **734**(1), 52. (10.1088/0004-637X/734/1/52.)
- High, F.W. *and 70 others* (SPT Collaboration including T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Optical redshift and richness estimates for galaxy clusters selected with the Sunyaev-Zel'dovich effect from 2008 South Pole Telescope observations. *Astrophys. J.*, **723**(2), 1736–1747.
- Hik, D. 2011. Chapter 4. IPY public programs; publishing and archiving IPY: new generation of polar scientists. Introduction. In Krupnik, I. *and 8 others* (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 478–480. (CCI Occasional Publication 69.)
- Ho, D.T. *and 9 others* (including R.C. Hamme). 2011. Southern Ocean Gas Exchange Experiment: setting the stage. *J. Geophys. Res.*, submitted.
- Honjo, S., R.H. Francois, S.J. Manganini and T.I. Eglinton. 2010. Uptake of CO₂ in the pelagic ocean by the biological pump; the global flux and the regional variability. *Abstract presented at Fall Meeting, 13–17*

- December 2010, San Francisco, CA. Washington, DC, American Geophysical Union, GC21E-03. (digital media.) (www.agu.org/cgi-bin/wais?ss=GC21E-03.)
- Hopkins, D., A.D. Sparrow, E.G. Gregorich, B. Elberling, P. Novis and L.G. Greenfield. 2010. Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic Dry Valleys. In Gilkes, R.J. and N. Prakongkep, eds. *Soil solutions for a changing world. Proceedings of the 19th World Congress of Soil Science, 1–6 August 2010, Brisbane, Australia*. Brisbane, International Union of Soil Sciences (IUSS), DVD, 24–27. (Working Group 1.4. Cold soils in a changing world.)
- House, D.J., M. Lloyd, Capt., P.R.M. Toomey, Capt and D. Dickens. 2010. *The ice navigation manual* Livingston, U.K., Witherby Seamanship International Ltd.
- Hunt, B.P.V., E.A. Pakhomov and R.H. Williams. 2010. Composition and distribution of macrozooplankton in the vicinity of Kerguelen and Heard Islands: oceanography forcing and ecological zonation. *The Kerguelen Plateau: marine ecosystem and fisheries. 1st International Science Symposium on the Kerguelen Plateau, 14–16 April 2010, Concarneau, France. Programme and abstracts*. Concarneau, France, Muséum National d’Histoire Naturelle (MNHN). Station de Biologie Marine, 15.
- Hunt, B. and 8 others (including R.J. Nelson, E. Pakhomov, B. Seibel and D. Steinke). 2010. Poles apart: The "bipolar" pteropod species *Limacina helicina* is genetically distinct between the Arctic and Antarctic Oceans. *PLoS ONE*, **5**(3), e9835. (10.1371/journal.pone.0009835.)
- Hunt, B.P.V. and 10 others (including B.P.V. Hunt and E.A. Pakhomov). 2010. The summer, autumn and winter distribution of macrozooplankton and micronekton between the surface and deep mesopelagic layers of the Lazarev Sea (Antarctica): seasonal cycles and implications for ecosystem functioning. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 361.)
- Hunt, B.P.V., E.A. Pakhomov, V. Siegel, B. Cisewski and U. Bathmann. 2011. The seasonal cycle of the Lazarev Sea macrozooplankton community and a potential shift to top-down trophic control in winter. *Deep-Sea Res. II*, **58**(13–16), 1662–1676.
- International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). 2011. The Second SCAR-IASC Bipolar Action Group (BipAG II). Potsdam, International Arctic Science Committee; Cambridge, Scientific Committee on Antarctic Research. (<http://iasc.arcticportal.org>.) (G.A. Fondahl is the Canadian member of BipAG.)
- IPY Space Task Group. 2010. *IPY legacy of satellite radar data in polar regions*. St. Hubert, Que, Canadian Space Agency.
- Jaccard, S.L., E.D. Galbraith, D.M. Sigman and G.H. Haug. 2010. A pervasive link between Antarctic ice core and subarctic Pacific sediment records over the past 800 kyrs. *Quat. Sci. Rev.*, **29**(1–2), 206–212.
- Jia, L., H. Wang, P. Wu and B. Hu. 2010. Effects of glacial isostatic adjustment on the estimate of ice mass balance from GRACE time-varying gravity data over Antarctica. [Abstract G51A-004.] *Eos, Trans. AGU*, **91**(26), West. Pac. Geophys. Meet. Suppl., digital media. (www.agu.org/meetings/wp10/waiswp10.html.)
- Jungblut, A.D., C. Lovejoy and W.F. Vincent. 2010. Global distribution of cyanobacterial ecotypes in the cold biosphere. *ISME J.*, **4**(2), 191–202.
- Kabin, K. 2010. Conjugacy between the two hemispheres at high latitudes in the null-separator model of the magnetosphere. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, SM11A-1698. (digital media.) (www.agu.org/cgi-bin/wais?ss=SM11A-1698.)
- Kamber, B.S., S.K. Marx and H.A. McGowan. 2010. Comment on “Lead isotopic evidence for an Australian source of Aeolian dust to Antarctica at times over the last 170,000 years” by P. De Deckker, M. Norman, I.D. Goodwin, A. Wain and F.X. Gingele [Palaeogeography, Palaeoclimatology, Palaeoecology 285 (2010)205–223]. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **298**(3–4), 432–436.

- Kang, S.M., L.M. Polvani, J.C. Fyfe and M. Sigmond. 2011. Impact of polar ozone depletion on subtropical precipitation. *Science*, **332**(6032), 951–954.
- Karpechko, A., N. Gillett and L. Gray. 2010. Southern Hemisphere circulation in an era of ozone recovery. *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-3135.
- Karpechko, A.Y., N.P. Gillett, L.J. Gray and M. Dall'Amico. 2010. Influence of ozone recovery and greenhouse gas increases on Southern Hemisphere circulation. *J. Geophys. Res.*, **115**(D22), D22117. (10.1029/2010JD014423.)
- Karpechko, A.Yu., N.P. Gillett, B. Hassler, K.H. Rosenlof and E. Rozanov. 2010. Quantitative assessment of Southern Hemisphere ozone in chemistry–climate model simulations. *Atmos. Chem. Phys.*, **10**(3), 1385–1400.
- Karpechko, A.Yu., N.P. Gillett, M. dall'Amico and L.J. Gray. 2010. Southern Hemisphere atmospheric circulation response to the El Chichón and Pinatubo eruptions in coupled climate models. *Q. J. R. Meteorol. Soc.*, **136**(652), Part A, 1813–1822.
- Karpechko, A., N. Gillett, M. dall'Amico and L. Gray. 2010. The Southern Hemisphere atmospheric circulation response to volcanic eruptions in coupled climate models. *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-3110.
- Keisler, R. and 48 others (SPT Collaboration, including T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, A. van Engelen and K. Vanderlinde). 2011. A measurement of the damping tail of the cosmic microwave background power spectrum with the South Pole Telescope. *Astrophys. J.*, submitted. (<http://arxiv.org/abs/1105.3182>.)
- Kern, S., B. Ozsoy-Cicek, S. Willmes, M. Nicolaus, C. Haas and S. Ackley. 2011. An intercomparison between AMSR-E snow-depth and satellite C- and Ku-band radar backscatter data for Antarctic sea ice. *Ann. Glaciol.*, **52**(57), Part 2, 279–290.
- Klein, R.A. 2010. Chapter 5. Cruises and bruises: safety, security and social issues on polar cruises. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 57–74.
- Koppes, M.N. and B. Hallet. 2010. Glacier erosional response to transient climate. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, EP52A-03. (digital media.) (www.agu.org/cgi-bin/wais?ss=EP52A-03.)
- Koppes, M., B. Kimball, B. Hallet, C. Nittroer, J. Anderson and J.S. Wellner. 2010. Wearing down the spine: modern ice fluxes and sediment delivery from the outlet glaciers of the western Antarctic Peninsula. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382899.
- Krupnik, I. and 11 others (including C. Dickson, S. Gearheard and P.L. Pulsifer). 2011. Chapter 5.4. Connecting to new stakeholders in polar research. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 575–592. (CCI Occasional Publication 69.)
- Krupnik, I. and 8 others (including D. Hik), eds. 2011. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008. (CCI Occasional Publication 69.)
- Lacelle, D. and 6 others (including D. Lacelle and W.H. Pollard). 2011. Stability of massive ground ice bodies in University Valley, McMurdo Dry Valleys of Antarctica: using stable O–H isotope as tracers of sublimation in hyper-arid regions. *Earth Planet. Sci. Lett.*, **301**(1–2), 403–411.

- Lancaster, N., W.G. Nickling and J.A. Gillies. 2010. Sand transport by wind on complex surfaces: field studies in the McMurdo Dry Valleys, Antarctica. *J. Geophys. Res.*, **115**(F3), F03027. (10.1029/2009JF001408)
- Lane, H. and 6 others (including R. Goodwin). 2011. Chapter 4.2. Publishing and archiving IPY. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 497–510. (CCI Occasional Publication 69.)
- Lenaerts, J., M.R. van den Broeke, E. van Meijgaard, W. van de Berg and S.J. Déry. 2010. Including snowdrift in a regional climate model of Antarctica: preliminary results. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C33E-0581. (digital media.) (www.agu.org/cgi-bin/wais?ss=C33E-0581.)
- Lenaerts, J.T.M., M.R. van den Broeke, S.J. Déry, G. König-Langlo, J. Ettema and P. Kuipers Munneke. 2010. Modelling snowdrift sublimation on an Antarctic ice shelf. *Cryosphere (TC)*, **4**(2), 179–190.
- Lloyd, G. 2010. Canada–United Kingdom Memorandum of Understanding. *CARN Newsl.*, **29**, 3–4.
- Lucini, M.M., T.G. Shepherd, N.A. McFarlane and S. Polavarapu. 2010. Multi-analysis ensemble in polar regions. [Abstract A43B-04.] *Eos, Trans. AGU*, **91**(26), Meet. Am. Suppl., digital media. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Lück, M., P.T. Maher and E.J. Stewart, eds. 2010. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications.
- Lück, M., P.T. Maher and E.J. Stewart. 2010. Chapter 1. Setting the scene: polar cruise tourism in the 21st century. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 1–10.
- Lueker, M. and 16 others (SPT Collaboration including M. Dobbs and T. Lanting). 2010. A frequency domain multiplexed receiver for the South Pole Telescope. In Young, B., A. Miller and B. Cabrera, eds. *The Thirteenth International Workshop on Low Temperature Detectors - LTD 13, 20–24 July 2009, Stanford, California*. New York, NY, etc., Springer. American Institute of Physics, 241–244. (AIP Conference Proceedings 1185.)
- Lueker, M. and 42 others (SPT Collaboration including T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Measurements of secondary cosmic microwave background anisotropies with the South Pole Telescope. *Astrophys. J.*, **719**(2), 1045–1066.
- MacCormack, W.P., L.A.M. Ruberto, C.L. Vodopivec, A. Curtosi and É. Pelletier. 2011. The impact of human activity on Antarctic coastal areas: a case study of hydrocarbons contamination at Potter Cove, South Shetland. *Ocean Yearbook 25*, 141–170.
- Mahaney, W.C. and 8 others (including R.G.V. Hancock). 2011. Aluminum extracts in Antarctic paleosols: proxy data for organic compounds and bacteria and implications for Martian paleosols. *Sediment. Geol.*, **237**(1–2), 84–94.
- Maher, P.T. 2010. Chapter 12. “Awesome size...magnitude of the place...the incredible beauty...”: visitors’ onsite experiences in the Ross Sea region of Antarctica. In Hall, M. and J. Saarinen, eds. *Tourism and change in polar regions: climate, environments and experiences*. Oxford, Taylor & Francis Group Ltd. Routledge, 215–235. (Contemporary Geographies of Leisure, Tourism and Mobility.)
- Maher, P.T. 2011. Chapter 7. Ambassadors for the experience: perspectives from the Ross Sea region. In Maher, P., E. Stewart and M. Lück, eds. *Polar tourism: human, environmental and governance dimensions*. Elmsford, NY, Cognizant Communication Corp., 121–141.
- Maher, P.T. and H. Gelter. 2010. A commentary on polar tourism conferences in the International Polar Year (2007–2009). *Tourism Mar. Environ.*, **6**(4), 185–188.

- Maher, P.T., E.J. Stewart and M. Lück. 2010. Chapter 14. Moving forward. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 227–236.
- Maher, P.T., E.J. Stewart and M. Lück. 2011. Chapter 1. An introduction to polar tourism: human, environmental and governance dimensions. In Maher, P., E. Stewart and M. Lück, eds. *Polar tourism: human, environmental and governance dimensions*. Elmsford, NY, Cognizant Communication Corp., 3–16.
- Maher, P.T., E.J. Stewart and M. Lück, eds. 2011. *Polar tourism: human, environmental and governance dimensions*. Elmsford, NY, Cognizant Communication Corp.
- Maher, P.T., M.E. Johnston, J.P. Dawson and J. Noakes. 2011. Risk and a changing environment for Antarctic tourism. *Curr. Iss. Tourism*, **14**(4), 387–399.
- Martin, M.A. and 6 others (including M. Haseloff). 2010. Dynamic equilibrium simulation of Antarctica with the Potsdam Parallel Ice Sheet Model (PISM-PIK). *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-366.
- Mashayek, A., W.R. Peltier, O. Bühler and R. Ferrari. 2010. Eddy diffusivity associated with the Antarctic Circumpolar Current. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May–4 June/31 mai–4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 342. (Abstract 3571.)
- McElroy, C.T., V. Savastiouk, R.D. Evans, S. Oltmans, J. Booth and A. Cox. 2010. Two years of Brewer ozone spectrophotometer observations from the South Pole. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 385264.
- McElroy, T., V. Savastiouk, R. Evans, S. Oltmans, J. Booth and A. Cox. 2010. Two years of ozone observations from the South Pole Brewer. *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-15010.
- McLandress, C., A.I. Jonsson, D.A. Plummer, M.C. Reader, J.F. Scinocca and T.G. Shepherd. 2010. Separating the dynamical effects of climate change and ozone depletion. Part I: Southern Hemisphere stratosphere. *J. Climate*, **23**(18), 5002–5020.
- McLandress, C., T.G. Shepherd, J.F. Scinocca, D.A. Plummer, M. Sigmond, A.I. Jonsson and M.C. Reader. 2011. Separating the dynamical effects of climate change and ozone depletion. Part II: Southern Hemisphere troposphere. *J. Climate*, **24**(6), 1850–1868.
- McMahon, J.J. and 52 others (SPT Collaboration including T. de Haan, M.A. Dobbs, G.P. Holder, T.M. Lanting, L. Shaw and K. Vanderlinde). 2010. SPTpol: an instrument for CMB polarization. In Young, B., A. Miller and B. Cabrera, eds. *The Thirteenth International Workshop on Low Temperature Detectors - LTD 13, 20–24 July 2009, Stanford, California*. New York, NY, etc., Springer. American Institute of Physics, 511–514. (AIP Conference Proceedings 1185.)
- Mellish, J.E., A.G. Hindle and M. Horning. 2010. A preliminary assessment of the impact of disturbance and handling on Weddell seals of McMurdo Sound, Antarctica. *Ant. Sci.*, **22**(1), 25–29.
- Mellish, J.-A.E., P.A. Tuomi, A.G. Hindle and M. Horning. 2010. Chemical immobilization of Weddell seals (*Leptonychotes weddellii*) by ketamine/midazolam combination. *Vet. Anesth. & Analg.*, **37**(2), 123–131.
- Mellish, J., P. Tuomi, A. Hindle, S. Jang and M. Horning. 2010. Skin microbial flora and effectiveness of aseptic technique for deep muscle biopsies in Weddell seals (*Leptonychotes weddellii*) in McMurdo Sound, Antarctica. *J. Wildlife Dis.*, **46**(2), 655–658.
- Miller, K.G. and 8 others (including W.R. Peltier). 2010. The high tide of the warm Pliocene: implications of ~20 m peak eustatic sea-levels for Antarctic deglaciation. *Abstract presented at Fall Meeting, 13–17*

- December 2010, San Francisco, CA. Washington, DC, American Geophysical Union, PP12B-06. (digital media.) (www.agu.org/cgi-bin/wais?ss=PP12B-06.)
- Moore, T.S. *and 6 others* (including R.C. Hamme). 2010. Depth integrated CO₂ and O₂ in the Southern Ocean during the austral fall, 2008. [Abstract IT45L-12.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., digital media. (www.agu.org/meetings/os10/waisos10.html.)
- Moore, T.S. *and 7 others* (including R.C. Hamme). 2011. Sea surface pCO₂ and O₂ in the Southern Ocean during the austral fall, 2008. *J. Geophys. Res.*, in press.
- Moreau, S., G.A. Ferreyra, B. Mercier, K. Lemarchand, M. Lionard, S. Roy, B. Mostajir, S. Roy, B. van Hardenberg and S. Demers 2010. Variability of the microbial community in the western Antarctic Peninsula from late fall to spring during a low ice cover year. *Polar Biol.*, **33**(12): 1599–1614.
- Nadeau, L.-P. 2010. Basin and channel contributions to a model Antarctic Circumpolar Current. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May–4 June/31 mai–4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 228. (Abstract 3879.)
- Nuttall, M. 2010. Chapter 11. Narratives of history, environment and global change: expeditioner-tourists in Antarctica. In Hall, M. and J. Saarinen, eds. *Tourism and change in polar regions: climate, environments and experiences*. Oxford, Taylor & Francis Group Ltd. Routledge, 204–214. (Contemporary Geographies of Leisure, Tourism and Mobility.)
- O'Donnell, R., N. Lewis, S. McIntyre and J. Condon. 2011. Improved methods for PCA-based reconstructions: case study using the Steig et al. (2009) Antarctic temperature reconstruction. *J. Climate*, **24**(8), 2099–2115.
- Olech, M. and P. Angiel. 2010. Succession patterns on the recently deglaciated areas of the West Antarctic. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 376775.
- Ommanney, C.S.L. 2010. Canadian artists in Antarctica. *CARN Newsl.*, **29**, 10–12.
- Ommanney, C.S.L., ed. 2010. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 28*. Ottawa, Ont., Canadian Polar Commission.
- Ommanney, C.S.L., ed. 2010. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 29*. Ottawa, Ont., Canadian Polar Commission.
- Ommanney, C.S.L. 2010. Recent work: Canada. *ICE, News Bull. Int. Glaciol. Soc.*, **152–153**(1st & 2nd Issues), 3–16.
- Ommanney, C.S.L. 2010. Toomey Strait – new Canadian Antarctic name. *CARN Newsl.*, **29**, 13–14.
- Hulbe, C.L., W. Wang and S. Ommanney. 2010. Women in glaciology, a historical perspective. *J. Glaciol.*, **56**(200), 944–964.
- Oswell, J.M., M. Mitchell, G. Chalmers and H. Mackinven. 2010. Design, construction and initial performance of wind turbine foundations in Antarctica. *GEO2010, 63rd Canadian Geotechnical Conference and 6th Canadian Conference on Permafrost, 12–16 September 2010, Calgary, Alberta, Canada*. Richmond, B.C., Canadian Geotechnical Society, 997–1003.
- Pakhomov, E.A., A. Atkinson and V. Siegel. 2010. Biomass and production of the Antarctic krill: spatio-temporal variability and overview of global estimates. *Climate, resources of the Southern Ocean, CCAMLR and Antarctic Krill (KRAK-2010). International Ukrainian–Russian Workshop, 26–28 September 2010, Kiev, Ukraine. Programme and abstracts. 2.*
- Pakhomov, E.A., L. Gurney and B.P.V. Hunt. 2010. Life-support system of the Prince Edward Archipelago: overview of local and advected resources. *The Kerguelen Plateau: marine ecosystem and fisheries. 1st*

International Science Symposium on the Kerguelen Plateau, 14–16 April 2010, Concarneau, France. Programme and abstracts. Concarneau, France, Muséum National d'Histoire Naturelle (MNHN). Station de Biologie Marine, 35.

- Pakhomov, E.A., B.P.V. Hunt, V. Siegel and U. Bathmann. 2010. Seasonal and inter-annual dynamics of the epipelagic mesozooplankton community in the Lazarev Sea. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 572.)
- Pakhomov, E., S. Kaehler, B. Hunt and U. Bathmann. 2010. Latitudinal and seasonal variability of surface POM stable isotope signatures in the Southern Ocean: implications for the pelagic food web and top predator foraging studies. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 573.)
- Pakhomov, E.A. and 9 others (including B.P.V. Hunt and L. Gurney). 2011. Biology and life cycles of pelagic tunicates in the Lazarev Sea, Southern Ocean. *Deep-Sea Res. II*, **58**(13–16), 1677–1689.
- Pakhomov, E.A., J. Hall, M.J.M. Williams, B.P.V. Hunt and C.J. Stevens. 2011. Biology of *Salpa thompsoni* in waters adjacent to the Ross Sea, Southern Ocean, during austral summer 2008. *Polar Biol.*, **34**(1), 257–271.
- Paparazzo, F.E., I.R. Schloss, V.A. Alder and J.L. Esteves. 2010. Zonation of near-surface Drake Passage waters based on discriminant analysis of environmental data. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 580.)
- Parsons, M.A. and 7 others (including S. Tomlinson). 2011. Chapter 3.11. The state of polar data: the IPY experience. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008.* Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 457–476. (CCI Occasional Publication 69.)
- Partners, T.M. 2010. The MEOP project: marine mammals exploring the oceans pole to pole. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382838. (J.M. Andersen is involved with the MEOP.)
- Pelletier, E., A. Curtosi, C.L. Vodopivec and W.P. Mac Cormack. 2010. Human impacts in Antarctic Peninsula coastal zones: the case study of Potter Cove, South Shetland Islands. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 592.)
- Pelletier, E., D. Delille and F. Coulon. 2010. Bioremediation potential of bacterial communities for spilled oil spills: examples from Kerguelen Islands and Dumont d'Urville Station. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 591.)
- Peltier, W.R. 2010. Antarctic deglaciation history: the ICE-6g (VM5a) model. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 593.)
- Peltier, W.R. 2010. Antarctic deglaciation history: modern geodynamic impacts. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 864.)
- Peltier, R., R. Drummond and K. Roy. 2011. Geoid Stokes coefficient variations due to global glacial isostatic adjustment. *Geophys. Res. Abstr.*, **13**, 2011 EGU General Assembly, EGU2011-2323.
- Peslier, A.H. and 6 others (C.D.K. Herd and E.L. Walton). 2010. Crystallization, melt inclusion, and redox

- history of a Martian meteorite: olivine-phyric shergottite Larkman Nunatak 06319. *Geochim. Cosmochim. Acta*, **74**(15), 4543–4576.
- Pitman, R.L. *and 8 others* (including J.R. Towers). 2011. Observations of a distinctive morphotype of killer whale (*Orcinus orca*), type D, from subantarctic waters. *Polar Biol.*, **34**(1), 303–306.
- Plagge, T. *and 44 others* (SPT Collaboration including T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Sunyaev-Zel'dovich cluster profiles measured with the South Pole Telescope. *Astrophys. J.*, **716**(2), 1118–1135.
- Pollard, W., D. Lacelle, D. Andersen and C. McKay. 2010. The role of massive ground ice in landscape development in the McMurdo Dry Valleys, Antarctica. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 385883.
- Polvani, L.M., D.W. Waugh, G. Correa and S.W. Son. 2010. Ozone depletion, increasing greenhouse gases, and Southern Hemisphere climate change. *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-9477.
- Prikryl, P. *and 8 others* (P.T. Jayachandran, E. Spanswick and E. Donovan). 2010. First comparative scintillation study using Arctic and Antarctic GPS receiver arrays. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 626.)
- Prikryl, P., P.T. Jayachandran, S.C. Mushini, E.F. Donovan and E.L. Spanswick. 2010. GPS phase scintillation in the cusp and in the nightside auroral oval: why are they different? [Abstract SA31C-04.] *Eos, Trans. AGU*, **91**(26), Meet. Am. Suppl., digital media. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Prikryl, P., P.T. Jayachandran and S.C. Mushini. 2010. GPS scintillation climatology study with Canadian High Arctic ionospheric network. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 625.)
- Prikryl, P. *and 11 others* (including P. Prikryl, P.T. Jayachandran, D.W. Danskin, E.L. Spanswick and E.F. Donovan). 2010. Inter-hemispheric comparison of GPS phase scintillation at high latitudes during the magnetic-cloud-induced geomagnetic storm of April 5–7, 2010. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, SM14A-03. (digital media.) (www.agu.org/cgi-bin/wais?ss=SM14A-03.)
- Puestow, T.M., J. Holfort and A. Fleming. 2010. Towards the integration of operational sea ice information: the IPY ice logistics portal. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382641.
- Rack, W., C. Haas and N. Krützmann. 2010. Mapping of saltwater intrusions into the McMurdo Ice Shelf, Antarctica, using electromagnetic induction sounding and ground penetrating radar measurements. *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-13729.
- Rack, W. *and 6 others* (including C. Haas and W. Clavano). 2010. CryoSat-2 validation on land and sea ice in the western Ross Sea Region, Antarctica, based on near-surface remote sensing methods. *Geophys. Res. Abstr.*, **12**, 2010 EGU General Assembly, EGU2010-14398.
- Radić, V. and R. Hock. 2010. Regional and global volumes of glaciers derived from statistical upscaling of glacier inventory data. *J. Geophys. Res.*, **115**(F1), F01010. (10.1029/2009JF001373.)
- Radic, V. and R.M. Hock. 2010. Widespread disappearance of small glaciers in the 21st century. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C34A-04. (digital media.) (www.agu.org/cgi-bin/wais?ss=C34A-04.)

- Reader, C., M. Sigmond, J. Fyfe, D. Plummer, J. Scinocca and T. Shepherd. 2010. The effect of ozone depletion and greenhouse gas warming on the Southern Ocean in coupled transient simulations using the CMAM middle atmosphere chemistry climate model. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May–4 June/31 mai–4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés.* Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 25. (Abstract 3862.)
- Rigby, G. and P. Rolland. 2010. Mapping Antarctica with RADARSAT-2. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383452.
- Rogne, O. and D. Hik. 2011. Chapter 1.7. National IPY secretariats. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008.* Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 127–132. (CCI Occasional Publication 69.)
- Roots, E.F. 2011. Background and evolution of some ideas and values that have led to the Antarctic Treaty. In Berkman, P.A., M.A. Lang, D.W.H. Walton and O.R. Young, eds. *Science diplomacy: Antarctica, science and the governance of international spaces.* Washington, DC, Smithsonian Institution Scholarly Press, 69–72.
- Saenko, O.A. and W.G. Lee. 2010. Reorganization of the ocean overturning in a colder climate. *Geophys. Res. Lett.*, **37**(4), L04606. (10.1029/2010GL042417.)
- Sahade, R. and 19 others (including I. Schloss). 2010. Coastal ecosystem responses to global warming: a small-scale case at Potter Cove. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 673.)
- Sakurai, T. and 6 others (including H. Ohno). 2010. Magnesium methanesulfonate salt found in the Dome Fuji (Antarctica) ice core. *J. Glaciol.*, **56**(199), 837–842.
- Sander, S., M. Bates, S. Elieff and L. Sander. 2010. AIRGrav airborne gravity. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May–4 June/31 mai–4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés.* Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 28–29. (Abstract 4609.)
- Sauter, E.J., O. Sachs, M. Schlüter, M.M. Rutgers van der Loeff, K. Jerosch and O. Holby. 2010. Regional distribution of benthic organic carbon fluxes and sediment oxygenation in the Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 381323.
- Schloss, I.R., F. Momo, G.A. Ferreyra and S. Demers. 2010. A model for the study of the combined effects of increased ultraviolet-B radiation and temperature on marine microplanktonic food webs. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 695.)
- Schloss, I.R., D. Abele, G.A. Ferreyra, O. González, S. Moreau and S. Demers. 2010. Response of Potter Cove phytoplankton dynamics to long term climate trends. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 694.)
- Schoof, C. 2010. Glaciology: Beneath a floating ice shelf. *Nature Geosci.*, **3**(7), 450–451.
- Schwegmann, S., C. Haas, C. Fowler and R. Gerdes. 2011. A comparison of satellite-derived sea-ice motion with drifting-buoy data in the Weddell Sea, Antarctica. *Ann. Glaciol.*, **52**(57), Part 1, 103–110.
- Screen, J.A., N.P. Gillett, A. Yu. Karpechko and D.P. Stevens. 2010. Mixed layer temperature response to the southern annular mode: mechanisms and model representation. *J. Climate*, **23**(3), 664–678.
- Shaw, J. and R.R. Young. 2010. Reply to comment by Ó Cofaigh, Dowdeswell, King, Anderson, Clark, DJA

- Evans, J. Evans, Hindmarsh, Lardner and Stokes “Comments on Shaw, J., Pugin, A., Young, R., (2009): A meltwater origin for Antarctic Shelf bedforms with special attention to megalineations.” *Geomorphology* 102, 364–375. *Geomorphology*, **117**(1–2), 199–201.
- Shearer, C.K. *and 18 others* (including C. Herd). 2010. Non-basaltic asteroidal magmatism during the earliest stages of solar system evolution: a view from Antarctic achondrites Graves Nunatak 06128 and 06129. *Geochim. Cosmochim. Acta*, **74**(3), 1172–1199.
- Shepherd, T.G. 2011. Mechanisms for predictability of polar climate. Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate; Bergen, Norway, 25–29 October 2010. *Eos, Trans. AGU*, **92**(11), 92.
- Shepherd, T.G. and 8 others. 2011. Report on WCRP Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate, 25–29 October 2010, Bergen, Norway. *SPARC Newsl.* 36, 11–19.
- Shepherd, T.G. and 8 others. 2011. *WCRP Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate, 25–29 October 2010, Bergen, Norway.* Geneva, World Meteorological Organization. World Climate Research Programme, 33 pp.
- Shirokoff, E. *and 45 others* (SPT Collaboration, including T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder and K. Vanderlinde). 2011. Improved constraints on cosmic microwave background secondary anisotropies from the complete 2008 South Pole Telescope data. *Astrophys. J.*, submitted. ([http://arxiv.org/abs/1012.4788.](http://arxiv.org/abs/1012.4788))
- Short, H. 2011. Positive feedbacks: using simple systems diagrams, the Himalayas, and ice core oxygen isotope data to introduce first-year college students to the complexities of Earth's climate system. *Geophys. Res. Abstr.*, **13**, 2011 EGU General Assembly, EGU2011-9320.
- Shum, C. *and 9 others* (including J.G. Cogley). 2010. Role of cryosphere in present-day sea-level rise. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA.* Washington, DC, American Geophysical Union, C41A-0509. (digital media.) ([www.agu.org/cgi-bin/wais?ss=C41A-0509.](http://www.agu.org/cgi-bin/wais?ss=C41A-0509))
- Sigmond, M., J.C. Fyfe and J.F. Scinocca. 2010. Does the ocean impact the atmospheric response to stratospheric ozone depletion? *Geophys. Res. Lett.*, **37**(12), L12706. (10.1029/2010GL043773.)
- Sigmond, M. and J.C. Fyfe. 2010. Has the ozone hole contributed to increased Antarctic sea ice extent? *Geophys. Res. Lett.*, **37**(18), L18502. (10.1029/2010GL044301.)
- Sigmond, M., M.C. Reader, J.C. Fyfe and N.P. Gillett. 2011. Drivers of past and future Southern Ocean change: stratospheric ozone versus greenhouse gas impacts. *Geophys. Res. Lett.*, **38**(12), L12601. (10.1029/2011GL047120.)
- Sime, L.C., K.E. Kohfeld, C. Le Quere, E.W. Wolff, A. de Boer and L. Bopp. 2010. Strengthening of the Southern Ocean westerlies during glaciations. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382303.
- Simmons, C.T., L.A. Mysak and D. Matthews. 2010. The natural carbon cycle for the Holocene according to the UVic ESCM 2.9: the role of Southern Ocean ventilation. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA.* Washington, DC, American Geophysical Union, PP33B-1683. (digital media.) ([www.agu.org/cgi-bin/wais?ss=PP33B-1683.](http://www.agu.org/cgi-bin/wais?ss=PP33B-1683))
- Simon, K.M., T.S. James and E.R. Ivins. 2010. Ocean loading effects on the prediction of Antarctic glacial isostatic uplift and gravity rates. *J. Geod.*, **84**(5), 305–317.
- Simpson, I. and T. Shepherd. 2010. The influence of sea surface temperature variability on the Antarctic stratosphere. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May–4 June/31 mai–4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés.* Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 156. (Abstract 3656.)

- Skidmore, M., M. Tranter, S. Tulaczyk and B. Lanoil. 2010. Hydrochemistry of ice stream beds - evaporitic or microbial effects? *Hydrol. Processes*, **24**(4), 517–523.
- Son, S.-W. and 40 others (including N.P. Gillett, T.G. Shepherd, D.A. Plummer and J.F. Scinocca). 2010. Impact of stratospheric ozone on Southern Hemisphere circulation change: a multimodel assessment. *J. Geophys. Res.*, **115**, Special Section, D00M07. (10.1029/2010JD014271.)
- Son, S. and the CCMVal2 team. 2010. The ozone hole and Southern Hemisphere climate change: a multimodel assessment. [Abstract A42A-01.] *Eos, Trans. AGU*, **91**(26), Meet. Am. Suppl., digital media. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Spence, P., J.C. Fyfe, A. Montenegro and A.J. Weaver. 2010. Southern Ocean response to strengthening winds in an eddy-permitting global climate model. *J. Climate*, **23**(19), 5332–5343.
- Straka, T. and N. Trudeau. 2010. IPY youth expeditions to the Arctic & Antarctica (IPY Project 343). *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383308.
- Studinger, M. and 18 others (including S. Elieff, D. Geue and M. Bates). 2010. *AGAP: exploring the Gamburtsev Subglacial Mountains with aerogeophysical surveys during the IPY*. Glaciology in the International Polar Year, 27–31 July 2009, Northumbria University, Newcastle, UK. Cambridge, UK, International Glaciological Society, Abstract.
- Studinger, M. and 10 others (including S. Elieff). 2010. Mapping Pine Island Glacier's sub-ice cavity with airborne gravimetry. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C11A-0528. (digital media.) (www.agu.org/cgi-bin/wais?ss=C11A-0528.)
- Tin, T., K. Bastmeijer, J. O'Reilly and P. Maher, *comps*. In press. Public perception of the Antarctic wilderness: surveys from an educated, environmentally knowledgeable European community. In Watson, A. and J. Murrieta-Saldivar, eds. *Science and stewardship to protect and sustain wilderness values. Ninth World Wilderness Congress Symposium, 6–13 November 2009, Mérida, Mexico*. Fort Collins, CO, U.S. Department of Agriculture. Forest Service. Rocky Mountain Research Station.
- Tinto, K.J., R.E. Bell, J.R. Cochran, M. Studinger, N. Frearson and S. Elieff. 2010. Bathymetry in front of Thwaites Glacier from airborne gravity (Operation IceBridge). *WAIS 2010, Seventeenth Annual WAIS Workshop, 22–25 September 2010, Raystown, PA. Agenda & abstracts*. Greenbelt, MD, NASA/Goddard Space Flight Center, digital media, 42–43. (http://neptune.gsfc.nasa.gov/wais/pastmeetings/abstracts10.pdf.)
- Tinto, K.J., R.E. Bell, J.R. Cochran, S. Elieff and N. Frearson. 2010. Insights into the Thwaites Glacier grounding zone from Operation IceBridge aerogravity. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C11A-0529. (digital media.) (www.agu.org/cgi-bin/wais?ss=C11A-0529.)
- Tortell, P.D. and 7 others (including P.D. Tortell, C. Gueguen and C.D. Payne). 2010. Biogenic gas distributions in Antarctic coastal waters: biophysical driving forces and ecophysiological implications. [Abstract IT53D-08.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., digital media. (www.agu.org/meetings/os10/waisos10.html.)
- Tortell, P.D., C. Guéguen, M.C. Long, C.D. Payne, P. Lee and G.R. DiTullio. 2011. Spatial variability and temporal dynamics of surface water pCO₂, ΔO₂/Ar and dimethylsulfide in the Ross Sea, Antarctica. *Deep-Sea Res. A*, **58**(3), 241–259. (Erratum: **58**(7), July 2011, p.776–777.)
- Toyota, T., C. Haas and T. Tamura. 2011. Size distribution and shape properties of relatively small sea-ice floes in the Antarctic marginal ice zone in late winter. *Deep-Sea Res. II*, **58**(9–10), 1182–1193.
- Tynan, C.T., D.G. Ainley and I. Stirling. 2010. Chapter 11. Sea ice: a critical habitat for polar marine mammals and birds. In Thomas, D.N. and G.S. Dieckmann, eds. *Sea ice, Second edition*. Chichester, etc.,

Wiley-Blackwell, 395–423.

- University of Calgary. 2011. Climate change to continue to year 3000 in best case scenarios, research predicts. *ScienceDaily*. (www.sciencedaily.com/releases/2011/01/110109184025.htm.) (Reporting on work by S.J. Marshall.)
- Van de Putte, A.P., G.D. Jackson, E. Pakhomov, H. Flores and F.A.M. Volckaert. 2010. Distribution of squid and fish in the pelagic zone of the Cosmonaut Sea and Prydz Bay region during the BROKE-West campaign. *Deep-Sea Res. II*, **57**(9–10), 956–967.
- Van de Putte, A.P., H. Flores, E.A. Pakhomov, J.A. van Franeker, F.A.M. Volckaert and K.U. Leuven. 2010. *Electrona antarctica*: an energy transmitter in the Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382532.
- Vancoppenolle, M., H. Goosse, A. de Montety, T. Fichefet, B. Tremblay and J.-L. Tison. 2010. Modeling brine and nutrient dynamics in Antarctic sea ice: the case of dissolved silica. *J. Geophys. Res.*, **115**(C2), C02005. (10.1029/2009JC005369.)
- Vancoppenolle, M. and 10 others (including T. Papakyriakou). 2011. Assessment of radiation forcing data sets for large-scale sea ice models in the Southern Ocean. *Deep-Sea Res. II*, **58**(9–10), 1237–1249.
- Vanderlinde, K. and 58 others (SPT Collaboration including K. Vanderlinde, T. de Haan, J.P. Dudley, L. Shaw, M.A. Dobbs, G.P. Holder and A. van Engelen). 2010. Galaxy clusters selected with the Sunyaev-Zel'dovich effect from 2008 South Pole Telescope observations. *Astrophys. J.*, **722**(2), 1180–1196.
- VanderZwaag, D.L. 2011. Ocean dumping and fertilization in the Antarctic: tangled legal currents, sea of challenges. In Berkman, P.A., M.A. Lang, D.W.H. Walton and O.R. Young, eds. *Science diplomacy: Antarctica, science and the governance of international spaces*. Washington, DC, Smithsonian Institution Scholarly Press, 245–251.
- Vieira, J.D. and 54 others (SPT Collaboration including T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Extragalactic millimeter-wave sources in South Pole Telescope survey data: source counts, catalog, and statistics for an 87 square-degree field. *Astrophys. J.*, **719**(1), 763–783.
- Vincent, W. 2010. Our melting poles: where life on Earth is changing. *Our Earth, our air, our water, our future/La Terre, l'air et l'eau, notre avenir. 44th CMOS Congress/44ième Congrès de la SCMO, 31 May–4 June/31 mai–4 juin, 2010, Ottawa, Ontario. Program and Abstracts/Programme et résumés*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 272. (Abstract 4478.)
- Von Harbou, L., E.A. Pakhomov, C.D. Dubischar, W. Hagen, I. Peeken and U. Bathmann. 2010. New insights into salp ecology in the Lazarev Sea, Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 381880.
- Von Harbou, L., I. Peeken, E.A. Pakhomov, C.D. Dubischar and U. Bathmann. 2010. The role of salps for carbon export in the Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383061.
- Wadham, J.L. and 12 others (including M.J. Sharp). 2010. The Antarctic ice sheet as a source of biogenic methane to the atmosphere. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 816.)
- Wadham, J.L. and 8 others (including M.J. Sharp). 2010. Biogeochemical weathering under ice: size matters. *Global Biogeochem. Cycles*, **24**(3), GB3025. (10.1029/2009GB003688.)
- Wadham, J.L. and 10 others (including A. Dubnick and M.J. Sharp). 2010. Examining the potential for methanogenesis in Antarctic subglacial aquatic environments. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore*,

- Maryland, USA. Washington, DC, American Geophysical Union, 34. (Abstract.)
- Wadham, J.L. *and 10 others* (including A. Dubnick and M.J. Sharp). 2010. Large methane reserves beneath Antarctica? *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, B54D-03. (digital media.) (www.agu.org/cgi-bin/wais?ss=B54D-03.)
- Wählin, A.K., H. Alsén, G. Björk, C. Nohr and X. Yuan. 2010. Flow of Circumpolar Deep Water and glacier melt water in the Amundsen Sea. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 379392.
- Walton, E.L., P.J. Jugo, C.D.K. Herd and M. Wilke. 2010. Martian regolith in Elephant Moraine 79001 shock melts? Evidence from major element composition and sulfur speciation. *Geochim. Cosmochim. Acta*, **74**(16), 4829–4843.
- Wang, X., G.-P. Yang, D. López, G. Ferreyra, K. Lemarchand and H. Xie. 2010. Late autumn to spring evolutions of water-column dissolved organic and inorganic carbon in the Scholaert Channel, West Antarctic. *Ant. Sci.*, **22**(2), 145–156.
- Westerhoff, S. and the IceCube Collaboration. 2010. Observations of cosmic rays and gamma rays with Icecube. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 831.) (D. Grant is a member of the IceCube Collaboration.)
- White, T.L. 2011. *Hydrocarbon contaminants in freezing ground and permafrost terrain*. Ottawa, Ont., Permafrost Environmental Consulting, 12 volumes + CD-ROM.
- Whitehouse, P., M. Bentley, G.A. Milne, A.M. Le Brocq, M. King and I. Thomas. 2010. A new glacial isostatic adjustment model for Antarctica. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, G34A-05. (digital media.) (www.agu.org/cgi-bin/wais?ss=G34A-05.)
- Whitehouse, P., M. Bentley, A. le Brocq, G. Milne, M. King and I. Thomas. 2011. A new glacial Isostatic adjustment model for Antarctica. *Geophys. Res. Abstr.*, **13**, 2011 EGU General Assembly, EGU2011-9062.
- Williams, T., T. van de Flierdt, S.R. Hemming, E. Chung, M. Roy and S.L. Goldstein. 2010. Evidence for iceberg armadas from East Antarctica in the Southern Ocean during the late Miocene and early Pliocene. *Earth Planet. Sci. Lett.*, **290**(3–4), 351–361.
- Willis, M.J. *and 6 others* (including T.S. James and S. Mazzotti). 2010. Geodetically-constrained glacial isostatic adjustment models of Antarctica: implications for the mass balance of the West Antarctic ice sheet. *Abstract presented at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, G34A-03. (digital media.) (www.agu.org/cgi-bin/wais?ss=G34A-03.)
- Willis, M., T. Wilson, T. James, S. Mazzotti, A. Brown and M. Bevis. 2010. GPS observations in the Antarctic interior: implications for GIA models and ice sheet mass change. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, CD-ROM. (Abstract 835.)
- Willmes, S., C. Haas and M. Nicolaus. 2010. Hemisphärische Unterschiede im Verlauf der Schneeschmelze auf Meereis. Eine Analyse kombinierter Modell- und Fernerkundungsstudien [Hemispheric differences in snow melt on sea ice: an analysis of combined model and remote sensing studies]. *24 Internationale Polartagung der Deutschen Gesellschaft für Polarforschung, 6–10 September 2010, Obergurgl/Österreich*. Innsbruck, Institut für Meteorologie und Geophysik, presentation. [In German] (<http://imgi.uibk.ac.at/polartagung-2010/programm.html>.)
- Woehler, E.J., L. Blight and I.D. Bullock. 2010. Ornithological observations at Eckener Point, Antarctic Peninsula. *Polar Rec.*, **46**(3), 279–281.

Worby, A.P., C. Fritsen, C. Geiger, P. Heil, K. Meiners and L. Miller, eds. 2011. Antarctic sea ice research during the International Polar Year 2007–2009. *Deep-Sea Res. II*, **58**(9–10), 993–1276.

Zicus, S. and 10 others (including K.A. Edwards and D. Hik). 2011. Chapter 4.1. IPY education activities. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 481–496. (CCI Occasional Publication 69.)