

**57003011**

**Tchebakova, Nadja M. (Russian Academy of Sciences, V. N. Sukachev Institute of Forest, Krasnoyarsk, Russian Federation); Monserud, Robert A. and Parfenova, Elena I.**

Phytomass change in the mountain forests of southern Siberia under climate warming: *in* First national conference on Carbon sequestration, Rep. No. DOE/NETL-2001/114, 13 p., illus. incl. sketch maps, 22 ref., 2001. WWW Available from: U. S. Department of Energy, National Energy Technology Laboratory, United States. Meeting: May 14-17, 2001, Washington, DC.  
[http://www.netl.doe.gov/publications/proceedings/01/carbon\\_seq/p53.pdf](http://www.netl.doe.gov/publications/proceedings/01/carbon_seq/p53.pdf)

**57003025**

**Genswein, Manuel (Swiss Federal Institute for Snow and Avalanche Research, Davos, Switzerland) and Harvey, Stephan.**

Statistical analyses on multiple burial situations and search strategies for multiple burials [abstr.]: **The Avalanche Review**, 21(3), p. 9-11, illus. incl. 2 tables, February 2003.

**57003026**

**Edgerly, Bruce.**

Beacon Basin opens: **The Avalanche Review**, 21(3), p. 11, February 2003.

**57003027**

**Höller, Peter (Institute for Avalanche Research, Federal Office and Research Centre for Forests, Innsbruck, Austria) and Gibler, F.**

On the practical use of avalanche beacons; the Austrian transceiver test 2001 [abstr.]: **The Avalanche Review**, 21(3), p. 12-13, illus. incl. 2 tables, 5 ref., February 2003.

**57003028**

**Leonard, Tom (The Yellowstone Club).**

An early morning surprise: **The Avalanche Review**, 21(3), p. 15, illus., February 2003.

**57003029**

**Johnson, Ron (Gallatin National Forest Avalanche Center).**

I saw the perfect avalanche: **The Avalanche Review**, 21(3), p. 15, 2 ref., February 2003.

**57003030**

**Andrews, Jon (Stevens Pass Ski Area).**

Faceted snow and large avalanche cycles in a maritime climate: **The Avalanche Review**, 21(3), p. 16-17, illus., February 2003.

**57003319**

**Anonymous.**

Antarctic ice sheet mass balance and sea level (ISMASS); brief report of a workshop: **SCAR Bulletin**, Rep. No. 146, p. 280-283, July 2002. (Polar Record 38 (206); 280-287, 2002). The workshop on Antarctic ice sheet mass balance and sea level (ISMASS) was held in Annapolis, MD, USA, June 10-14, 2001.

**57003320**

**Anonymous.**

SCAR group of specialists on subglacial Antarctic lake exploration; brief report of a meeting: **SCAR Bulletin**, Rep. No. 146, p. 283-286, July 2002. (Polar Record 38 (206); 280-287, 2002). The SCAR group of specialists on subglacial Antarctic lake exploration meeting was held in Bologna, Italy on Nov. 29-30, 2001.

**57003321**

**Koh, Glenda (World Wildlife Fund, Norway).**

Arctic scores five out of ten in Canada: **WWF Arctic Bulletin**, 4.02, p. 4-5, illus. incl. sketch map, December 16, 2002.

**57003322**

**Sang, Susan (World Wildlife Fund Canada, Canada) and Balch, Gord.**

Wildlife health research and the influence of contaminants in Nunavut: **WWF Arctic Bulletin**, 4.02, p. 7, illus. incl. sketch map, December 16, 2002.

**57003323**

**Spiridonov, Vassily (World Wildlife Fund Russia, Russian Federation).**

Oil and gas on the Arctic Shelf: **WWF Arctic Bulletin**, 4.02, p. 18, illus., December 16, 2002. Arctic shelf oil and gas conference, Murmansk, Russian Federation, Nov. 13-15, 2002.

**57003439**

**Hunter, Don.**

Artillery practice at flats to resume; army won't use shells that killed waterfowl: **Anchorage Daily News**, 1991, November 16, p. B1, B2, illus. incl. sketch map, November 16, 1991.

**57003663**

**Canada, Indian and Northern Affairs, Water Resources Division.**

Snow survey bulletin & water supply forecast; March 1, 2003; Yukon Territory: **Yukon Snow Survey Bulletin & Water Supply Forecast**, Rep. No. 2003-MARCH, 27 p., illus. incl. sketch maps, March 2003.

**57003667**

**Darrhort, Alain (Peloton de Gendarmerie de Haute Montagne, France); Henry, Philippe; Ottonello, Jacques and Schmutz, Emmanuel.**

La recherche des victimes d'avalanche par sondage [Searching for avalanche victims by sounding]: **Neige et Avalanches (Grenoble)**, 101, p. 2-6, illus., March 2003.

**57003668**

**Sivardière, François (ANENA, France).**

Hors-piste, randonnée et accidents d'avalanche [Cross-country skiing, hiking, and avalanche accidents]: **Neige et Avalanches (Grenoble)**, 101, p. 7-9, illus., March 2003.

**57003669**

**Sivardière, François (ANENA, France).**

Prévision du risque d'avalanche au Colorado [Prediction of avalanche risk in Colorado]: **Neige et Avalanches (Grenoble)**, 101, p. 10-13, illus. incl. sketch map, March 2003.

**57003670**

**Zuanon, Jean-Paul (Club Alpin Français, France).**

Neige et avalanches en Slovaquie [Snow and avalanches in Slovakia]: **Neige et Avalanches (Grenoble)**, 101, p. 14-16, illus., March 2003.

**57003671**

**Naaim, Mohamed (CEMAGREF/ETNA, France); Bouchet, Alexi; Ousset, Frédéric and Bellot, Hervé**

A quoi sert le toboggan à avalanche? [What is an avalanche toboggan?]: **Neige et Avalanches (Grenoble)**, 101, p. 17, illus., March 2003.

**57003672**

**Jarry, Frédéric (ANENA, France).**

Apports et limites des PPR avalanche [Contributions and limits of the PPR avalanche]: **Neige et Avalanches (Grenoble)**, 101, p. 18-21, illus., March 2003.

**57003673**

**Pidou, Virginie (Médecins de Montagne, France).**

Hors-pistes et sécurité [Cross-country skiing and security]: **Neige et Avalanches (Grenoble)**, 100, p. 2-5, illus., December 2002.

**57003674**

**Stumpert, Dominique.**

De l'intérêt d'une sonde et d'une pelle en cas d'avalanche [Use of a sounding line and a shovel in case of avalanches]: **Neige et Avalanches (Grenoble)**, 100, p. 6-8, illus., December 2002.

**57003675**

**Jarry, Frédéric (ANENA, France).**

Bilan avalanches 2001-2002 [Avalanche totals 2001-2002]: **Neige et Avalanches (Grenoble)**, 100, p. 9-13, illus., December 2002.

**57003676**

**Bolognesi, Robert (METEORISK, France).**

Des avalanches en modèle réduit [Miniature avalanche models]: **Neige et Avalanches (Grenoble)**, 100, p. 16-19, illus., December 2002.

**57003677**

**Goetz, Daniel (Météo-France, France).**

Bilan de l'hiver 2001-2002 [Winter totals 2001-2002]: **Neige et Avalanches (Grenoble)**, 100, p. 20-22, illus., December 2002.

**57003678**

**Etchevers, Pierre (Météo-France, France) and Martin, Eric.**

SNOWMIP; un projet de comparaison de modèles de neige [SNOWMIP; a project for comparing snow models]: **Neige et Avalanches (Grenoble)**, 100, p. 23, illus., December 2002.

**57003679**

**Vallee, Martin.**

20 mai 2002; avalanche au Signal de Méan Martin [May 20, 2002; avalanche at Mean Martin Signal]: **Neige et Avalanches (Grenoble)**, 100, p. 24-27, illus., 2 ref., December 2002.

**57003680**

**Villecrose, Jacques (Météo-France, Centre d'Etudes de la Neige, France).**

L'avis d'un spécialiste [Opinion of a specialist]: **Neige et Avalanches (Grenoble)**, 100, p. 27-28, December 2002.

**57003681**

**Valla, François (Cemagref/ETNA, France).**

Adré Roch nous a quittés [Andre Roch has left us]: **Neige et Avalanches (Grenoble)**, 100, p. 29, portr., December 2002.

**57003682**

**Tuominen, Liisa (Finnish Institute of Marine Research, Helsinki, Finland).**

The effect of storage on nutrient concentrations in Baltic Sea water samples: **Meri**, Rep. No. 46, p. 3-8, illus. incl. 6 tables, 6 ref., 2002.

**57003683**

**Perttila, Matti (Finnish Institute of Marine Research, Helsinki, Finland); Schneider, Bernd and Andrejev, Oleg.**

Alkalinity-salinity relations in the Baltic Sea: **Meri**, Rep. No. 46, p. 9-16, illus. incl. 2 tables, sketch maps, 17 ref., 2002.

**57003684**

**Ronkainen, Tiina (Finnish Institute of Marine Research, Helsinki, Finland).**

Total iron concentration in water areas around Finland in the winter 2001-2002: **Meri**, Rep. No. 46, p. 17-31, illus. incl. 3 tables, sketch map, 7 ref., 2002.

**57003808**

**Niedzwiedz, Tadeusz (Uniwersytet Slaski, Wydział Nauk o Ziemi, Katedra Klimatologii, Slansk, Poland).**

Wpływ cyrkulacji atmosfery na wysokie opady w Hornsundzie (Spitsbergen) [Influence of atmospheric circulation on the high precipitation in Hornsund, Spitsbergen]: **Problemy Klimatologii Polarnej**, 12, p. 65-75 (English sum.), illus. incl. 3 tables, 16 ref., 2002.

**57003809**

**Lupikasza, Ewa (Uniwersytet Slaski, Wydział Nauk o Ziemi, Katedra Klimatologii, Poland).**

Zmienność opadów atmosferycznych w Hornsundzie (Spitsbergen) w okresie 1978-2000 [Variations of the atmospheric precipitation in Hornsund, Spitsbergen in the period 1978-2000]:

**Problemy Klimatologii Polarnej**, 12, p. 77-88 (English sum.), illus. incl. 3 tables, 18 ref., 2002.

**57003810**

**Brys, Tadeusz (Akademia Rolnicza we Wrocławiu, Instytut Kształtowania i Ochrony Środowiska, Wrocław, Poland).**

Meteorologiczne i orograficzne uwarunkowania depozycji jonowej z opadów i osadów atmosferycznych w rejonie Hornsundu w okresie Lipiec 1999-Czerwiec 2000 [Meteorological and orographic conditions of ion deposition caused by atmospheric precipitation in the Hornsund area in period July 1999 to June 2000]: **Problemy Klimatologii Polarnej**, 12, p. 89-106 (English sum.), illus. incl. sketch map, 37 ref., 2002.

**57003811**

**Dolnicki, Piotr (Uniwersytet Śląski, Wydział Nauk o Ziemi, Katedra Geomorfologii, Śląsk, Poland).**

Wpływ pokrywy śnieżnej na termikę i grubość warstwy czynnej zmarzliny w obszarze tundrowym rejonu polskiej stacji polarnej w Hornsundzie (SW Spitsbergen) [Influence of snow cover on the thermal regime and thickness of the permafrost active layer within tundra zone at the Polish polar station Hornsund, SW Spitsbergen]: **Problemy Klimatologii Polarnej**, 12, p. 107-116 (English sum.), illus. incl. 3 tables, sketch maps, 8 ref., 2002.

**57003812**

**Marsz, Andrzej A. (Akademia Morska w Gdyni, Katedra Meteorologii i Oceanografii Nautycznej, Gdynia, Poland) and Styszynska, Anna.**

Zagadnienie odtworzenia wartości bilansu lodowca Hansa (SW Spitsbergen) [Mass balance reconstruction for the Hans Glacier, SW Spitsbergen]: **Problemy Klimatologii Polarnej**, 12, p. 117-131 (English sum.), illus. incl. 3 tables, sketch map, 9 ref., 2002.

**57003813**

**Styszynska, Anna (Akademia Morska w Gdyni, Katedra Meteorologii i Oceanografii Nautycznej, Gdynia, Poland).**

Związki bilansu masy lodowców w rejonie Kongsfiordu (NW Spitsbergen) z pokrywa lodowa mórz Barentsa i Grenlandzkiego [Ice cover of the Barents and Greenland seas and the glaciers mass balance in the Kongsfjorden area, NW Spitsbergen]: **Problemy Klimatologii Polarnej**, 12, p. 133-146 (English sum.), illus. incl. 1 table, sketch map, 17 ref., 2002.

**57004407**

**Hiki, Y. (Tokyo Institute of Technology, Department of Applied Physics, Tokyo, Japan) and Tamura, J.**

Ultrasonic study of melting of crystalline solids: *in* Proceedings of the Fourth international conference on Phonon scattering in condensed matter (Eisenmenger, W., editor; *et al.*), **Proceedings - International Conference of Institution of Electrical Engineers**, 4, p. 285-287, illus., 7 ref., 1984. *Meeting*: Aug. 22-26, 1983, Stuttgart, Federal Republic of Germany.

**57004408**

**Rodionov, Sergei (National Oceanic and Atmospheric Administration, Great Lakes Environmental Research Laboratory, Ann Arbor, MI) and Assel, Raymond.**

Atmospheric teleconnection patterns and severity of winters in the Laurentian Great Lakes Basin: **Atmosphere-Ocean**, 38(4), p. 601-635 (French sum.), illus. incl. sketch maps, 51 ref., 2000.

**57004409**

**Shih, S. E. (Massachusetts Institute of Technology, Department of Electrical Engineering and Computer Science, Cambridge, MA); Ding, K. H.; Kong, J. A.; Yang, Y. E.; Davis, R. E.; Hardy, J. P. and Jordan, R.**

Modeling of millimeter wave backscatter of time-varying snowcover: **Electromagnetic Waves (Cambridge, Mass.)**, 16, p. 305-330, illus. incl. 3 tables, 39 ref., 1997. CRREL Report No: ERDC/CRREL MP-03-6037

**57004824**

**KUAC Public Television and University of Alaska at Fairbanks, Center for Global Change and Arctic System Research.**

A changing landscape; investigating a warming Arctic: KUAC-TV, Fairbanks, AK, 1 videocassette, 2002. videocassette.

publisher <http://www.alaskaone.org>

**57004936**

**Betts, Alan K. (Atmospheric Research, Pittsford, VT); Viterbo, Pedro; Beljaars, Anton; Pan, Hua-Lu; Hong, Song-You; Goulden, Mike and Wofsy, Steve.**

Evaluation of land-surface interaction in ECMWF and NCEP/NCAR reanalysis models over grassland (FIFE) and boreal forest (BOREAS): **Journal of Geophysical Research, D, Atmospheres**, 103(18), p. 23,079-23,085, illus., 24 ref., September 27, 1998.

**57004937**

**Gronlund, Eva, editor.**

Tundra northwest 1999: 195 p., illus. incl. tables, 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden. Cruise report offprint; individual chapters within scope are cited separately.

**57004938**

**Graneli, Wilhelm, leader (Lund University, Department of Ecology, Lund, Sweden);**

**Bertilsson, Stefan, leader; Tranvik, Lars, leader; Bird, David and Philibert, Aline.**

Bacterioplankton and organic matter in Arctic lakes and ponds: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 150-156, illus., 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004939**

**Hansson, Lars-Anders, leader (Lund University, Institute of Ecology/Limnology, Lund).**

Grazing, pigmentation and food-web composition in Arctic freshwater ecosystems: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 162-163, 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004940**

**Berglund, Olof, leader (Lund University, Chemical Ecology/Ecotoxicology, Lund, Sweden);**

**Borg, Hans, leader; Hammar, Johan, leader; Kylin, Henrik, leader; Agrell, Cecilia;**

**Larsson, Per; Asplund, Lillemor; Bidleman, Terry F.; Jantunen, Liisa M.; Reist, James D. and Strachan, William M. J.**

Organic environmental pollutants and trace metals in the Canadian Arctic: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 169-171, 3 ref., 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004941**

**Eriksson, Mats (Nuclear Safety Research, Nuclear Safety Research and Facilities Department, Roskilde, Denmark) and Holm, Elis, leaders.**

Radioactivity on the Canadian tundra: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 172-173, illus. incl. 1 table, 2 ref., 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004942**

**Henry, Gregory H. R., leader (University of British Columbia, Department of Geography, Vancouver, BC, Canada); Breen, Katie; Klinkenberg, Brian; Rayback, Shelly A. and Molau, Ulf.**

From plants to plots to landscape patterns; biodiversity and biomass relationships on various scales in Arctic tundra vegetation: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 174-176, illus., 1 ref., 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004943**

**Molau, Ulf, leader (Goteborg University, Botanical Institute, Goteborg, Sweden); Henry, Gregory H. R.; Rayback, Shelly A. and Welker, Jeffrey M.**

Reconstruction of past climate for the Canadian Arctic Cassiope tetragona: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 177-178, 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004944**

**Kullander, Seven O., leader (Swedish Museum of Natural History, Sweden); Olsson, Mats, leader; Hansson, Anders; Hjelmberg, Mats; Mortensen, Peter; Dunn, Blair; Jorgenson, John; Reist, Jim and Putar, Ana.**

Sculpins; collecting for the Swedish Museum of Natural History: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 180-182, illus. incl. 3 tables, 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004945**

**Reist, James D. (Fisheries and Oceans Canada, Winnipeg, MB, Canada); Dunn, Blair; Eert, Jane; Jantunen, Liisa M.; Jorgenson, John; Putar, Ana and Sjare, Becky.**

Canadian Arctic marine research activities on Tundra Northwest 1999: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 183-185, 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004946**

**Dahlberg, Anders, leader (Swedish University of Agricultural Sciences, Department of Forest Mycology and Pathology, Uppsala, Sweden); Gardes, Monique; Charcosset, Jean-Yves; Olsson, Pal-Axel and Soderstrom, Bengt.**

Fungi in the Arctic; diversity of species and adaptation to cold climate: *in* Tundra northwest 1999 (Gronlund, Eva, editor), p. 92-94, 1999. *Available from:* Swedish Polar Research Secretariat, Stockholm, Sweden.

**57004947**

**Salkeld, Audrey.**

South side story: *Geographical Magazine (London)*, 65(5), p. 8-12, illus. incl. sketch map, May 1993.

**57004948**

**Clarke, Charles (St Bartholomews' Hospital, London, United Kingdom).**

Into thin air: *Geographical Magazine (London)*, 65(5), p. 15-16, illus., May 1993.

**57004949**

**Gjessing, Yngvar (University of Bergen, Department of Geophysics, Bergen, Norway);**

**Hagen, Jon Ove; Hassel, Karin Anker; Sand, Knut and Wold, Bjorn, editors.**

Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate: Rep. No. 23, 224 p., illus. incl. tables, sects., sketch maps, 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands. A contribution to UNESCO's IHP-IV Programme; individual papers are cited separately.

**57004950**

**Bjornsen, Bernt (Svalbard Samfunnsdrift, Svalbard and Jan Mayen Islands).**

"Isdammen"; the public water supply in Longyearbyen: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 1-8, illus. incl. tables, sketch map, 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004951**

**Thomsen, Thorkild (Greenland Field Investigations, Hydro-Technical Division, Copenhagen, Denmark).**

Arctic hydrology in Greenland; permafrost hydrology and data technology: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 9-26, illus. incl. 1 table, sketch map, 21 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004952**

**Tomasson, Haukur (National Energy Authority, Reykjavik, Iceland).**

Glaciofluvial sediment transport and erosion: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 27-36, illus. incl. sketch map, 10 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004953**

**Lenart, Witold (University of Warsaw, Department of Geography and Regional Studies, Warsaw, Poland).**

Structural and measurement problems of Arctic atmospheric water balance: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 37-45, illus. incl. 1 table, sketch map, 9 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004954**

**Higuchi, Keiji (Nagoya University, Water Research Institute, Nagoya, Japan).**

Change in hydrological cycle in cold region corresponding to "greenhouse" warming: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 47-49, illus. incl. sketch map, 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004955**

**Faugli, Per Einar (Norwegian Water Resources and Energy Administration, Oslo, Norway) and Aabel, Jens.**

Water resources management and research in Svalbard: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 51-54, 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004956**

**Novikov, S. M. (State Hydrological Institute, Saint Petersburg, Russian Federation) and Sokolov, B. L.**

Hydrological peculiarities of permafrost regions: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 55-61, 7 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004957**

**Ivanov, V. V. (Arctic and Antarctic Research Institute, Saint Petersburg, Russian Federation).**

Studies of the Arctic water resources; state-of-the-art and future plans: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 63-74, illus. incl. 3 tables, sketch maps, 28 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004958**

**Clark, Michael J. (University of Southampton, GeoData Institute, Southampton, United Kingdom).**

The Svalbard contribution to global studies of Arctic hydrology and sediment transfer: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 75-83, 4 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004959**

**Nordli, Per Oyvind (Norwegian Meteorological Institute, Oslo, Norway).**

Climatic time series of the Norwegian Arctic meteorological stations; temperature and precipitation: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 85-98, illus. incl. sketch maps, 5 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004960**

**Hanssen-Bauer, Inger (Norwegian Meteorological Institute, Oslo, Norway).**

Cold air drainage in the Arctic: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 99-110, illus. incl. sketch maps, 3 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004961**

**Gjessing, Yngvar (University of Bergen, Department of Geophysics, Bergen, Norway).**

On the relationship between snow distribution and snow melt: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 111-119, illus. incl. 1 table, 3 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004962**

**Hagen, Jon Ove (Norwegian Polar Research Institute, Oslo, Norway); Korsen, Ole Martin and Vatne, Geir.**

Drainage pattern in a subpolar glacier; Broggerbreen, Svalbard: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 121-131, illus. incl. 1 table, 12 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004963**

**Pettersson, Lars-Evan (Norwegian Water Resources and Energy Administration, Hydrology Department, Oslo, Norway).**

Hydrometric investigations in Svalbard 1989-1990: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 133-138, illus., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004964**

**Lauritzen, Stein-Erik (University of Bergen, Department of Geology, Bergen, Norway).**

Groundwater in cold climates; interaction between glacier and karst aquifers: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 139-146, illus. incl. sects., sketch map, 23 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004965**

**Bogen, Jim (Norwegian Water Resources and Energy Administration, Hydrology Department, Oslo, Norway).**

Erosion and sediment transport in Svalbard: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 147-158 (Norwegian sum.), illus. incl. 1 table, sketch map, 4 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004966**

**Sollid, J. L. (University of Oslo, Department of Physical Geography, Oslo, Norway); Etzelmuller, B.; Vatne, Geir and Odegard, R. S.**

Glacial and glaciofluvial material transport in subpolar glaciers; examples from Svalbard: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 159-165, illus. incl. sketch maps, 2 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004967**

**Skretteberg, Rolf (Norwegian Water Resources and Energy Administration, Oslo, Norway).**

Discharge measurements structures under Arctic conditions; design and construction considerations: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 167-174, illus., 4 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004968**

**Walum, R. S. (Polkonsult Svalbard, Tromso, Norway).**

Gravel-pad foundations to control groundwater movements in frost-susceptible soil; a case study: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 175-186, illus. incl. 1 table, sketch map, 9 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004969**

**Faanes, Turid (SINTEF Norwegian Hydrotechnical Laboratory, Trondheim, Norway).**

Observing snow melting in Southern Norway from satellite passive microwave: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 187-194, illus. incl. 1 table, sketch map, 5 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004970**

**Winther, Jan-Gunnar (SINTEF Norwegian Hydrotechnical Laboratory, Trondheim, Norway) and Faanes, Turid.**

Albedo measurements from snow; image processing of Landsat-5 TM data: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 195-201, illus. incl. 1 table, 3 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004971**

**Sand, Knut (Norwegian Hydrotechnical Laboratory, Trondheim, Norway); Hagen, Jon Ove; Repp, K. and Berntsen, E.**

Climate related research in Svalbard: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 203-217, illus. incl. 1 table, sketch map, 13 ref., 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004972**

**Faugli, Per Einar (Norwegian Water Resources and Energy Administration, Oslo, Norway).** Postscript: *in* Arctic hydrology; present and future tasks; hydrology of Svalbard; hydrological problems in cold climate (Gjessing, Yngvar, editor; *et al.*), Rep. No. 23, p. 219-220, 1991. *Available from:* Norwegian National Committee for Hydrology, Norway. *Meeting:* Polar hydrology, Sept. 14-17, 1990, Longyearbyen, Svalbard and Jan Mayen Islands.

**57004973**

**Kennedy, Patrick C. (Colorado State University, Department of Atmospheric Science, Fort Collins, CO); Rutledge, Steven A.; Petersen, Walter A. and Bringi, V. N.** Polarimetric radar observations of hail formation: **Journal of Applied Meteorology**, 40(8), p. 1347-1366, illus. incl. 3 tables, geol. sketch maps, 48 ref., August 2001.

**57004974**

**Sicart, Jean Emmanuel (UMR, L'Institut de Recherche pour le Développement, Paris, France); Ribstein, Pierre; Chazarin, Jean Philippe and Berthier, Etienne.** Solid precipitation on a tropical glacier in Bolivia measured with an ultrasonic depth gauge: **Water Resources Research**, 38(10), 7 p., illus., 26 ref., October 2002.

**57004975**

**Leenders, Erica E. (McMaster University, School of Geography and Geology, Canada) and Woo, Ming-ko.** Modeling a two-layer flow system at the subarctic, subalpine tree line during snowmelt: **Water Resources Research**, 38(10), 8 p., illus. incl. 3 tables, 13 ref., October 2002.

**57004976**

**Feng, Xiahong (Dartmouth College, Department of Earth Sciences, Hanover, NH); Taylor, Susan; Renshaw, Carl E. and Kirchner, James W.** Isotopic evolution of snowmelt; 1, A physical based one-dimensional model: **Water Resources Research**, 38(10), 8 p., illus. incl. table, 35 ref., October 2002.

**57004977**

**Taylor, Susan (Dartmouth College, Department of Earth Sciences, Hanover, NH); Feng, Xiahong; Renshaw, Carl E. and Kirchner, James W.** Isotopic evolution of snowmelt; 2, Verification and parameterization of a one-dimensional model using laboratory experiments: **Water Resources Research**, 38(10), 8 p., illus. incl. 3 tables, 17 ref., October 2002.

**57004978**

**Villas, Enrique (Universidad de Zaragoza, Departamento Ciencias de la Tierra, Saragossa, Spain); Vennin, Emmanuelle; Álvaro, José Javier; Hammann, Wolfgang; Herrera, Zarela A. and Piovano, Eduardo L.** The Late Ordovician carbonate sedimentation as a major triggering factor of the Hirnantian glaciation: **Bulletin de la Société Géologique de France**, 173(6), p. 569-578 (French sum.), sects., sketch map, 89 ref., 2002. IGCP Project Nos. 410, 421.

57004979

**Bittelli, Marco (Washington State University, Department of Crop and Soil Sciences, Pullman, WA); Flury, Markus and Campbell, Gaylon S.**

A thermoelectric analyzer to measure the freezing and moisture characteristic of porous media: **Water Resources Research**, 39(2), 10 p., illus. incl. 2 tables, 44 ref., February 2003.

57004980

**Weihrauch, Alexandra and Berger, Joachim.**

Breaking the ice on modular barriers: **Offshore Engineer**, 28(4), p. 65-67, illus. incl. block diag., April 2003.

57004981

**Mancinelli, Rocco L. (NASA, Ames Research Center, Moffett Field, CA).**

Accessing the Martian deep subsurface to search for life: *in* Exobiology in the solar system (Horneck, Gerda, editor; *et al.*), **Planetary and Space Science**, 48(11), p. 1035-1042, illus. incl. 2 tables, 19 ref., September 2000.

57004982

**Horneck, Gerda (Deutsches Zentrum für Luft- und Raumfahrt, Institut für Luft- und Raumfahrtmedizin, Cologne, Federal Republic of Germany).**

The microbial world and the case for Mars: *in* Exobiology in the solar system (Horneck, Gerda, editor; *et al.*), **Planetary and Space Science**, 48(11), p. 1053-1063, illus. incl. 2 tables, 91 ref., September 2000.

57004983

**Tziperman, Eli (Weizmann Institute, Environmental Sciences, Rehovot, Israel) and Gildor, Hezi.**

On the mid-Pleistocene transition to 100-kyr glacial cycles and the asymmetry between glaciation and deglaciation times: **Paleoceanography**, 18(1), p. 1.1-1.8, illus. incl. 1 table, 51 ref., March 2003.

57004984

**Polyak, Leonid (Ohio State University, Byrd Polar Center, Columbus, OH); Stanovoy, Vladimir and Lubinski, David J.**

Stable isotopes in benthic foraminiferal calcite from a river-influenced Arctic marine environment, Kara and Pechora seas: **Paleoceanography**, 18(1), p. 3.1-3.17, illus. incl. 4 tables, sketch maps, 73 ref., March 2003. *Holocene*

57004985

**Emeis, Kay C. (Baltic Sea Research Institute, Warnemuende, Federal Republic of Germany); Schulz, Hartmut; Struck, U.; Rossignol-Strick, M.; Erlenkeuser, H.; Howell, M. W.; Kroon, D.; Mackensen, A.; Ishizuka, S.; Oba, T.; Sakamoto, T. and Koizumi, I.**

The Mediterranean surface water temperatures and  $\delta^{18}\text{O}$  composition during deposition of sapropels in the late Quaternary: **Paleoceanography**, 18(1), p. 5.1-5.18, illus. incl. 4 tables, sketch map, 103 ref., March 2003.

**57004986**

**Nisancioglu, Kerim H. (Massachusetts Institute of Technology, Department of Earth, Atmospheric, and Planetary Sciences, Cambridge, MA); Raymo, Maureen E. and Stone, Peter H.** Reorganization of Miocene deep water circulation in response to the shoaling of the Central American Seaway: **Paleoceanography**, 18(1), p. 6.1-6.12, illus. incl. 1 table, sketch maps, 59 ref., March 2003.

**57004987**

**Raymo, Maureen E. (Massachusetts Institute of Technology, Department of Earth, Atmospheric, and Planetary Sciences, Cambridge, MA) and Nisancioglu, Kerim H.** The 41 kyr world; Milankovitch's other unsolved mystery: **Paleoceanography**, 18(1), p. 11.1-11.6, illus. incl. 1 table, 30 ref., March 2003.

**57004988**

**Archer, David E. (University of Chicago, Department of Geophysical Sciences, Chicago, IL); Martin, Pamela A.; Milovich, Jose; Brovkin, Victor; Plattner, Gian-Kasper and Ashendel, Carrie.** Model sensitivity in the effect of Antarctic sea ice and stratification on atmospheric pCO<sub>2</sub>: **Paleoceanography**, 18(1), p. 12.1-12.7, illus., 17 ref., March 2003.

**57004989**

**Becquey, Sabine (University of Salamanca, Department of Geology, Salamanca, Spain) and Gersonde, Rainer.** A 0.55-Ma paleotemperature record from the Subantarctic Zone; implications for Antarctic Circumpolar Current development: **Paleoceanography**, 18(1), p. 14.1-14.14, illus. incl. 4 tables, sketch map, 78 ref., March 2003.

**57004990**

**Tamburini, Federica (Université de Neuchâtel, Institut de Géologie, Neuchatel, Switzerland); Föllmi, Karl B.; Adatte, Thierry; Bernasconi, Stefano M. and Steinmann, Philipp.** Sedimentary phosphorus record from the Oman margin; new evidence of high productivity during glacial periods: **Paleoceanography**, 18(1), p. 15.1-15.14, illus. incl. 1 table, sketch map, 63 ref., March 2003. *Foraminifera, Quaternary, nannofossils*

**57004991**

**Feldberg, Melissa J. (Oregon State University, College of Oceanic and Atmospheric Sciences, Corvallis, OR) and Mix, Alan C.** Planktonic Foraminifera, sea surface temperatures, and mechanisms of oceanic change in the Peru and south equatorial currents, 0-150 ka BP: **Paleoceanography**, 18(1), p. 16.1-16.16, illus. incl. 3 tables, sketch map, 57 ref., March 2003.

**57004992**

**Risebrobakken, Bjorg (University of Bergen, Department of Earth Science, Bergen, Norway); Jansen, Eystein; Andersson, Carin; Mjelde, Eirik and Hevroy, Kjersti.** A high-resolution study of Holocene paleoclimatic and paleoceanographic changes in the Nordic seas: **Paleoceanography**, 18(1), p. 17.1-17.14, illus. incl. 2 tables, sketch map, 67 ref., March 2003.

**57004993**

**Rasmussen, Tine L. (University of Colorado at Boulder, Institute of Arctic and Alpine Research, Boulder, CO); Oppo, Delia W.; Thomsen, Erik and Lehman, Scott J.**

Deep sea records from the Southeast Labrador Sea; ocean circulation changes and ice-rafting events during the last 160,000 years: **Paleoceanography**, 18(1), p. 18.1-18.15, illus. incl. 1 table, sketch map, 95 ref., March 2003.

**57004994**

**King, Alexandra L. (University of Tasmania, Institute of Antarctic and Southern Ocean Studies, Hobart, Tasmania, Australia) and Howard, William R.**

Planktonic foraminiferal flux seasonality in Subantarctic sediment traps; a test for paleoclimate reconstructions: **Paleoceanography**, 18(1), p. 19.1-19.17, illus. incl. 3 tables, sketch map, 40 ref., March 2003.

**57004995**

**Eagle, Meagan (Stanford University, Department of Geological and Environmental Sciences, Stanford, CA); Paytan, Adina; Arrigo, Kevin R.; van Dijken, Gert and Murray, Richard W.**

A comparison between excess barium and barite as indicators of carbon export: **Paleoceanography**, 18(1), p. 21.1-21.13, illus. incl. 3 tables, 58 ref., March 2003.

**57004996**

**Spero, Howard J. (University of California at Davis, Department of Geology, Davis, CA); Mielke, Koreen M.; Kalve, Erica M.; Lea, David W. and Pak, Dorothy K.**

Multispecies approach to reconstructing eastern Equatorial Pacific thermocline hydrography during the past 360 kyr: **Paleoceanography**, 18(1), p. 22.1-22.16, illus. incl. 2 tables, sketch map, 96 ref., March 2003.

**57004998**

**Shimazaki, Takumi (Japan Coast Guard, Hydrographic and Oceanographic Department, Tokyo, Japan) and Nakauchi, Hiromichi.**

Oceanographic data of the 41st Japanese Antarctic Research Expedition from November 1999 to March 2000: **JARE Data Reports**, Rep. No. 265, 36 p., illus. incl. 4 tables, sketch map, 9 ref., September 2002.

**57004999**

**Masuyama, Akihiro (Japan Coast Guard, Hydrographic and Oceanographic Department, Tokyo, Japan) and Shimizu, Junko.**

Oceanographic data of the 40th Japanese Antarctic Research Expedition from November 1998 to March 1999: **JARE Data Reports**, Rep. No. 264, 49 p., illus. incl. 5 tables, sketch map, 9 ref., September 2002.

**57005000**

**Zhang, Shengpan P. (Massachusetts Institute of Technology, Haystack Observatory, Westford, MA); Goncharenko, Larisa P.; Salah, Joseph E.; Roble, Raymond G. and Shepherd, Gordon G.**

Climatology of neutral winds in the lower thermosphere over Millstone Hill (42.6°N) observed from ground and from space: **Journal of Geophysical Research, A, Space Physics**, 108(1), 10 p., illus. incl. 2 tables, 42 ref., January 1, 2003.

**57005001**

**Mellon, Michael T. (University of Colorado, Laboratory for Atmospheric and Space Physics, Boulder, CO) and Phillips, Roger J.**

Recent gullies on Mars and the source of liquid water: **Journal of Geophysical Research, E, Planets**, 106(10), p. 23,165-23,179, illus. incl. 1 table, 74 ref., October 25, 2001.

**57005002**

**Titus, Timothy N. (U. S. Geological Survey, Flagstaff, AZ); Kieffer, Hugh H.; Mullins, Kevin F. and Christensen, Philip R.**

TES premapping data; slab ice and snow flurries in the Martian north polar night: **Journal of Geophysical Research, E, Planets**, 106(10), p. 23,181-23,196, illus. incl. 2 tables, 34 ref., October 25, 2001.

**57005003**

**Feldman, W. C. (Los Alamos National Laboratory, Los Alamos, NM); Maurice, S.; Lawrence, D. J.; Little, R. C.; Lawson, S. L.; Gasnault, O.; Wiens, R. C.; Barraclough, B. L.; Elphic, R. C.; Prettyman, T. H.; Steinberg, J. T. and Binder, A. B.**

Evidence for water ice near the lunar poles: **Journal of Geophysical Research, E, Planets**, 106(10), p. 23,231-23,251, illus. incl. 4 tables, 68 ref., October 25, 2001.

**57005004**

**Williams, Rebecca M. E. (Washington University, McDonnell Center for the Space Sciences and Department of Earth and Planetary Sciences, Saint Louis, MO) and Phillips, Roger J.**

Morphometric measurements of Martian valley networks from Mars Orbiter Laser Altimeter (MOLA) data: *in* The Mars Global Surveyor mission (Albee, Arden L., preface), **Journal of Geophysical Research, E, Planets**, 106(10), p. 23,737-23,751, illus. incl. 3 tables, 64 ref., October 25, 2001.

**57005005**

**Furukawa, Teruo (National Institute of Polar Research, Tokyo, Japan); Yamada, Tomomi; Suzuki, Keisuke; Suzuki, Toshitaka; Matsuoka, Kenichi; Horikawa, Kazuhisa; Murakata, Eishin; Yasugahira, Kazuya and Iizuka, Yoshinori.**

Glaciological data collected by the 39th and 40th Japanese Antarctic Research Expedition during 1998-2000: **JARE Data Reports**, Rep. No. 267, 61 p., illus. incl. tables, sketch maps, 10 ref., December 2002.

**57005006**

**Motoyama, Hideaki (National Institute of Polar Research, Tokyo, Japan); Nishimura, Koichi; Kubo, Sakae; Aoki, Takeshi; Wada, Makoto; Yamaguchi, Kanji and Kato, Yuki.**

Glaciological data collected by the 41st and 42nd Japanese Antarctic Research Expedition during 2000-2002: **JARE Data Reports**, Rep. No. 268, 58 p., illus. incl. tables, sketch map, 16 ref., December 2002.

**57005007**

**Metzger, Christine A. (Washington and Lee University, Geology Department, Lexington, VA); Rowland, Jessica C. and Carson, Robert J.**

Interstadial duration based on soil properties and geochemistry of a buried forest at the Herbert Glacier, Southeast Alaska [abstr.]: *in* Geological Society of America, 2000 annual meeting, **Abstracts with Programs - Geological Society of America**, 32(7), p. 270, 2000. *Meeting*: Nov. 9-18, 2000, Reno, NV.

**57005008**

**Peltier, W. R. (University of Toronto, Department of Physics, Toronto, ON, Canada).**

The inverse problem for mantle viscosity: *in* Inverse problems in geophysics; closing the gap between theory and practice (Snieder, R., editor; *et al.*), **Inverse Problems**, 14(3), p. 441-478, illus. incl. sketch map, 74 ref., June 1998.

**57005009**

**Gallagher, K. (Imperial College of Science, Technology and Medicine, T. H. Huxley School of Environment, Earth Science and Engineering, London, United Kingdom).**

Inverse thermal history modelling as a hydrocarbon exploration tool: *in* Inverse problems in geophysics; closing the gap between theory and practice (Snieder, R., editor; *et al.*), **Inverse Problems**, 14(3), p. 479-497, illus., 41 ref., June 1998.

**57005035**

**Wong, C. S. (Institute of Ocean Sciences, Centre for Ocean Climate Chemistry, Sidney, BC, Canada); Whitney, F. A.; Crawford, D. W.; Iseki, K.; Matear, R. J.; Johnson, W. K.; Page, J. S. and Timothy, D.**

Seasonal and interannual variability in particle fluxes of carbon, nitrogen and silicon from time series of sediment traps at Ocean Station P, 1982-1993; relationship to changes in subarctic primary productivity: *in* Canadian JGOFS in the NE subarctic Pacific (Boyd, P. W., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 46(11-12), p. 2735-2760, illus. incl. 2 tables, 54 ref., 1999.

**57005036**

**Boyd, P. W. (University of British Columbia, School of Earth and Ocean Sciences, Vancouver, BC, Canada); Sherry, N. D.; Berges, J. A.; Bishop, James K. B.; Calvert, S. E.; Charette, Matthew A.; Giovannoni, S. J.; Goldblatt, R.; Harrison, P. J.; Moran, S. Bradley; Roy, S.; Soon, M.; Strom, S.; Thibault, D.; Vergin, K. L.; Whitney, F. A. and Wong, C. S.** Transformations of biogenic particulates from the pelagic to the deep ocean realm: *in* Canadian JGOFS in the NE subarctic Pacific (Boyd, P. W., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 46(11-12), p. 2761-2792, illus. incl. 7 tables, 108 ref., 1999.

**57005037**

**Wu, Jinping (University of British Columbia, School of Earth and Ocean Sciences, Vancouver, BC, Canada); Calvert, S. E.; Wong, C. S. and Whitney, F. A.**

Carbon and nitrogen isotopic composition of sedimenting particulate material at Station Papa in the subarctic Northeast Pacific: *in* Canadian JGOFS in the NE subarctic Pacific (Boyd, P. W., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 46(11-12), p. 2793-2832, illus. incl. 5 tables, 111 ref., 1999.

**57005038**

**Charette, Matthew A. (University of Rhode Island, Graduate School of Oceanography, Narragansett, RI); Moran, S. Bradley and Bishop, James K. B.**

<sup>234</sup>Th as a tracer of particulate organic carbon export in the subarctic Northeast Pacific Ocean: *in* Canadian JGOFS in the NE subarctic Pacific (Boyd, P. W., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 46(11-12), p. 2833-2861, illus. incl. sketch map, 4 tables, sects., 52 ref., 1999.

**57005039**

**Denman, K. L. (Institute of Ocean Sciences, Sidney, BC, Canada) and Peña, M. A.**

A coupled 1-D biological/physical model of the Northeast subarctic Pacific Ocean with iron limitation: *in* Canadian JGOFS in the NE subarctic Pacific (Boyd, P. W., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 46(11-12), p. 2877-2908, illus. incl. 3 tables, 92 ref., 1999.

**57005040**

**Peña, M. A. (Institute of Ocean Sciences, Sidney, BC, Canada); Denman, K. L.; Calvert, S. E.; Thomson, R. E. and Forbes, J. R.**

The seasonal cycle in sinking particle fluxes off Vancouver Island, British Columbia: *in* Canadian JGOFS in the NE subarctic Pacific (Boyd, P. W., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 46(11-12), p. 2969-2992, illus. incl. 2 tables, geol. sketch map, 58 ref., 1999.

**57005041**

**McDonald, D. (University of British Columbia, Department of Oceanography, Vancouver, BC, Canada); Pedersen, T. F. and Crusius, J.**

Multiple late Quaternary episodes of exceptional diatom production in the Gulf of Alaska: *in* Canadian JGOFS in the NE subarctic Pacific (Boyd, P. W., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 46(11-12), p. 2993-3017, illus. incl. 1 table, geol. sketch map, 73 ref., 1999.

**57005042**

**Nesje, A. (Univ. Bergen, Dep. Geol., Bergen, Norway).**

The geographical and altitudinal distribution of block fields in Southern Norway and its significance to the Pleistocene ice sheets: *in* Weathered mantles (saprolites) over basement rocks of high latitudes (Godard, A., editor), **Zeitschrift für Geomorphologie. Supplementband**, 72, p. 41-53 (French, German sum.), chart, geol. sketch maps, 44 ref., 1989.

**57005043**

**Coque-Delhuille, B. (Univ. Paris, Lab. Geogr. Phys., Meudon, France) and Veyret, Y.**

Limite d'englacement et evolution periglaciaire des iles Scilly; l'interet des arennes in situ et remaniees [Glacial extent and periglacial evolution in the Scilly Islands; the significance of in situ and reworked weathering crusts]: *in* Weathered mantles (saprolites) over basement rocks of high latitudes (Godard, A., editor), **Zeitschrift für Geomorphologie. Supplementband**, 72, p. 79-96 (English, German sum.), illus. incl. sects., strat. col., geol. sketch maps, 21 ref., 1989.

**57005044**

**Sugden, D. E. (Univ. Edinburgh, Dep. Geogr., Edinburgh, United Kingdom).**

Modification of old land surfaces by ice sheets: *in* Weathered mantles (saprolites) over basement rocks of high latitudes (Godard, A., editor), **Zeitschrift für Geomorphologie. Supplementband**, 72, p. 163-172, geol. sketch maps, 26 ref., 1989.

**57005045**

**Tison, J. L. (Univ. Libre Bruxelles, Lab. Geomorphol., Brussels, Belgium); Souchez, R. and Lorrain, R.**

On the incorporation of unconsolidated sediments in basal ice; present-day examples: *in* Weathered mantles (saprolites) over basement rocks of high latitudes (Godard, A., editor), **Zeitschrift für Geomorphologie. Supplementband**, 72, p. 173-183 (French sum.), illus., 13 ref., 1989.

**57005046**

**Aylsworth, J. M.; Cunningham, C. M. and Shilts, W. W.**

Surficial geology, Schultz Lake, District of Keewatin, Northwest Territories: **Geological Survey of Canada. Map. Preliminary Series**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 43-1989, 1 sheet, surficial geology map, 1990.

**57005047**

**Aylsworth, J. M.**

Surficial geology, Aberdeen Lake, District of Keewatin, Northwest Territories: **Geological Survey of Canada. Map. Preliminary Series**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 44-1989, 1 sheet, surficial geology map, 1990.

**57005048**

**Aylsworth, J. M.; Cunningham, C. M. and Shilts, W. W.**

Surficial geology, Edehon Lake, District of Keewatin, Northwest Territories: **Geological Survey of Canada. Map. Preliminary Series**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 10-1990, 1 sheet, surficial geology map, 1990.

**57005049**

**Anonymous.**

The ice-rafting history in the Norwegian-Greenland Sea for the last two glacial/interglacial cycles: **Berichte aus dem Sonderforschungsbereich 313 "Veränderungen der Umwelt: der Nördliche Nordatlantik"**, 50, 105 p. (German sum.), illus. incl. sects., 18 tables, sketch maps, 1994.

**57005050**

**Canada, Energy, Mines and Resources.**

The secrets of ice—Les glaces et leurs secrets: *in the collection* Geological Survey of Canada, Educational Video Series. 1 videocassette, (English, French), 1991. videocassette *Available from:* Geological Survey of Canada, Canada. 25 minutes.

**57005051**

**Lindesay, Janette A. (Australian National University, Department of Geography, Canberra, Australia).**

Past climates of Southern Africa: *in* Climates of the southern continents; present, past and future (Hobbs, J. E., editor; *et al.*), John Wiley and Sons, Chichester, United Kingdom, p. 161-206, illus. incl. 1 table, 233 ref., 1998.

**57005052**

**Markgraf, Vera (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO).**

Past climates of South America: *in* Climates of the southern continents; present, past and future (Hobbs, J. E., editor; *et al.*), John Wiley and Sons, Chichester, United Kingdom, p. 249-264, illus., 65 ref., 1998.

**57005053**

**Lewis, Anthony J. (Louisiana State University, Department of Geography and Anthropology, Baton Rouge, LA).**

Geomorphic and hydrologic applications of active microwave remote sensing: *in* Principles and application of imaging radar (Henderson, Floyd M., editor; *et al.*), *in the collection* Manual of remote sensing (Ryerson, Robert A., editor). , 3rd edition, John Wiley & Sons, New York, NY, 2, p. 567-629, illus., 101 ref., 1998.

**57005054**

**Hall, Dorothy K. (NASA, Goddard Space Flight Center, Greenbelt, MD).**

Remote sensing of snow and ice using imaging radar: *in* Principles and application of imaging radar (Henderson, Floyd M., editor; *et al.*), *in the collection* Manual of remote sensing (Ryerson, Robert A., editor). , 3rd edition, John Wiley & Sons, New York, NY, 2, p. 677-703, illus. incl. 2 tables, 151 ref., 1998.

**57005055**

**Fitzhugh, Ross DeHart.**

Canopy tree-soil-microbial interactions in a northern hardwood ecosystem; effects of soil freezing disturbance on soil solution chemistry and nutrient loss: 245 p., Doctoral, 2000, Syracuse University, Syracuse, NY. ISBN: 0-493-16511-8 *Available from:* Univ. Microfilms.

**57005056**

**Sajecki, Philip (Environment Canada, Development Climatology Division, Canada).**

Displaying Canadian climate normals using GIS: *in* Geographic information seminar (Canadian Ministry of Natural Resources), p. 289-297, 1 table, sketch maps, October 1993. *Available from:* Canadian Ministry of Natural Resources, Canada. *Meeting:* Oct. 19-20, 1993, Toronto, ON, Canada.

**57005057**

**Fisk, Aaron T. (Carleton University, Chemistry Department, Ottawa, ON, Canada); Hobson, Keith A. and Norstrom, Ross J.**

Influence of chemical and biological factors on trophic transfer of persistent organic pollutants in the Northwater Polynya marine food web: **Environmental Science & Technology, ES & T**, 35(4), p. 732-738, illus. incl. 1 table, sketch map, 42 ref., February 15, 2001.

**57005058**

**Dominé, Florent (CNRS, Laboratoire de Glaciologie et Géophysique de l'Environnement, St. Martin d'Heres, France); Cabanes, Axel; Taillandier, Anne-Sophie and Legagneux, Loïc.**

Specific surface area of snow samples determined by CH<sub>4</sub> adsorption off 77 K and estimated by optical microscopy and scanning electron microscopy: **Environmental Science & Technology, ES & T**, 35(4), p. 771-780, illus., 26 ref., February 15, 2001.

**57005059**

**Barbante, Carlo (University of Venice, Department of Environmental Sciences and Centre for Studies on Environmental Chemistry and Technology, Venice, Italy); Veyseyre, Audrey; Ferrari, Christophe; van de Velde, Katja; Morel, Christine; Capodaglio, Gabriele; Cescon, Paolo; Scarponi, Giuseppe and Boutron, Claude.**

Greenland snow evidence of large scale atmospheric contamination for platinum, palladium, and rhodium: **Environmental Science & Technology, ES & T**, 35(5), p. 835-839, illus., 42 ref., March 1, 2001.

**57005060**

**Bindler, Richard (Umea University, Department of Ecology and Environmental Science, Umea, Sweden); Renberg, Ingemar; Appleby, Peter G.; Anderson, N. John and Rose, Neil L.**

Mercury accumulation rates and spatial patterns in lake sediments from West Greenland; a coast to ice margin transect: **Environmental Science & Technology, ES & T**, 35(9), p. 1736-1741, illus. incl. 2 tables, sketch map, 36 ref., May 1, 2001.

**57005061**

**Krishnamurthy, R. V. (Western Michigan University, Department of Geology, Kalamazoo, MI); Machavaram, Madhav; Baskaran, M.; Brooks, James M. and Champ, Michael A.**

Organic carbon flow in the Ob, Yenisey rivers and Kara Sea of the Arctic region: **Marine Pollution Bulletin**, 42(9), p. 726-732, illus. incl. 1 table, sketch maps, 28 ref., September 2001.

**57005062**

**Samuelson, Glenda M. (University of Calgary, Department of Geography, Calgary, AB, Canada).**

Polychaetes as indicators of environmental disturbance on subarctic tidal flats, Iqaluit, Baffin Island, Nunavut Territory: **Marine Pollution Bulletin**, 42(9), p. 733-741, 4 tables, sketch map, 47 ref., September 2001.

**57005063**

**Kerr, Richard A.**

A warmer Arctic means change for all: **Science**, 297(5586), p. 1490-1492, illus. incl. sketch maps, August 30, 2002.

**57005064**

**Goldman, Erica.**

Even in the high Arctic, nothing is permanent: **Science**, 297(5586), p. 1493-1494, illus. incl. sketch map, August 30, 2002.

**57005065**

**Kaiser, Jocelyn.**

Breaking up is far too easy: **Science**, 297(5586), p. 1494-1496, illus. incl. sketch map, August 30, 2002.

**57005066**

**Moritz, Richard E. (University of Washington, Polar Science Center, Seattle, WA); Bitz, Cecilia and Steig, Eric J.**

Dynamics of recent climate change in the Arctic: **Science**, 297(5586), p. 1497-1502, illus., 88 ref., August 30, 2002.

**57005067**

**Rignot, Eric (Jet Propulsion Laboratory, Pasadena, CA) and Thomas, Robert H.**

Mass balance of polar ice sheets: **Science**, 297(5586), p. 1502-1506, 1 table, sketch maps, 54 ref., August 30, 2002.

**57005068**

**Dominé, Florent (CNRS, Laboratoire de Glaciologie et Géophysique de l'Environnement, Saint Martin d'Heres, France) and Shepson, Paul B.**

Air-snow interactions and atmospheric chemistry: **Science**, 297(5586), p. 1506-1510, illus. incl. 1 table, sketch map, 58 ref., August 30, 2002.

**57005069**

**Henderson, P. J., compiler.**

Surficial geology, Annabel Lake-Flin Flon, Saskatchewan: **Geological Survey of Canada, "A" Series Map**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 2010A, 1 sheet, surficial geology map, 1:50,000, 2002.

**57005070**

**Paradis, S. J. and Parent, M., compilers.**

Géologie des formations en surface, rivière Koroc (moitié est), Québec, Terre-Neuve et Labrador [Surficial geology of the Koroc River (eastern half), Quebec, Newfoundland and Labrador]: **Geological Survey of Canada, "A" Series Map**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 2013A, 1 sheet, surficial geology map, 1:125,000, 2002.

**57005071**

**Paradis, S. J.; Parent, M.; Perret, D. and Bégin, C., compilers.**

Géologie des formations en surface, Bagotville, Québec [Surficial geology of Bagotville, Quebec]: **Geological Survey of Canada, "A" Series Map**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 2015A, 1 sheet, surficial geology map, 1:50,000, 2002.

**57005072**

**Smith, I. R., compiler.**

Surficial geology, Mount Merrill, Yukon Territory-British Columbia: **Open-File Report - Geological Survey of Canada**, Geological Survey of Canada, Calgary, AB, Canada, Rep. No. 4324, 1 sheet, surficial geology map, 1:50,000, 2002.

**57005073**

**Duk-Rodkin, A. and Hughes, O. L., compilers.**

Surficial geology, Carcajou Canyon, Northwest Territories: **Geological Survey of Canada, "A" Series Map**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 1988A, 1 sheet, surficial geology map, 1:250,000, 1 ref., 2002.

**57005074**

**Duk-Rodkin, A., compiler.**

Surficial geology, Norman Wells, Northwest Territories: **Geological Survey of Canada, "A" Series Map**, Geological Survey of Canada, Ottawa, ON, Canada, Rep. No. 1989A, 1 sheet, surficial geology map, 1:250,000, 1 ref., 2002.

**57005075**

**Richmond, Sharon Alice.**

Natural attenuation of chlorinated solvents in subarctic ground water: 161 p., Doctoral, 2001, University of Alaska, Fairbanks, Fairbanks, AK. ISBN: 0-493-14012-3 *Available from:* Univ. Microfilms.

**57005076**

**Storck, Pascal (Univeristy of Washington, Department of Civil and Environmental Engineering, Seattle, WA); Lettenmaier, P. and Bolton, Susan M.**

Measurement of snow interception and canopy effects on snow accumulation and melt in a mountainous maritime climate, Oregon, United States: **Water Resources Research**, 38(11), 16 p., illus. incl. 1 table, 30 ref., November 2002.

**57005077**

**Milly, P. C. D. (U. S. Geological Survey, Princeton, NJ) and Wetherald, R. T.**

Macroscale water fluxes; 3, Effects of land processes on variability of monthly river discharge: **Water Resources Research**, 38(11), 12 p., illus. incl. 1 table, 11 ref., November 2002.

**57005078**

**Church, Michael (University of British Columbia, Department of Geography, Vancouver, BC, Canada) and Hassan, Marwan A.**

Mobility of bed material in Harris Creek: **Water Resources Research**, 38(11), 12 p., illus., 36 ref., November 2002.

**57005079**

**Nijssen, Bart (Univeristy of Washington, Department of Civil and Environmental Engineering, Seattle, WA) and Lettenmaier, Dennis P.**

Water balance dynamics of a boreal forest watershed; White Gull Creek basin, 1994-1996: **Water Resources Research**, 38(11), 12 p., illus. incl. 4 tables, 42 ref., November 2002.

**57005080**

**Laudon, Hjalmar (Swedish Univeristy of Agricultural Sciences, Department of Forest Ecology, Umea, Sweden); Hemond, Harry F.; Krouse, Roy and Bishop, Kevin H.**

Oxygen 18 fractionation during snowmelt; implications for spring flood hydrograph separation: **Water Resources Research**, 38(11), 10 p., illus. incl. 1 table, 25 ref., November 2002.

**57005081**

**Kleimenov, V. F. (Vserossiiskii Nauchno-Issledovatel'skii Geologicheskii Neftyanoi Institut, Saint Petersburg, Russian Federation) and Kachalov, Iu. M.**

Gazonosnost' kriolitozony regionov krainego Severa Rossii, ekologicheskie aspekty ee izucheniia [Natural gas potential of permafrost zone in Russian Arctic and ecological aspects of petroleum exploration]: **Geoekologiya (Moskva)**, 2002(3), p. 260-265, illus., 7 ref., June 2002.

**57005082**

**Gersonde, Rainer** (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany); **Hodell, David A.**; **Blum, Peter**; **Andersson, Carin**; **Austin, William E. N.**; **Billups, Katharina**; **Channell, James E. T.**; **Charles, Christopher D.**; **Diekmann, Bernhard**; **Filippelli, Gabriel M.**; **Flores, José-Abel**; **Hewitt, Antony T.**; **Howard, William R.**; **Ikehara, Minoru**; **Janecek, Thomas R.**; **Kanfoush, Sharon L.**; **Kemp, Alan E. S.**; **King, Stagg L.**; **Kleiven, Helga Flesche**; **Kuhn, Gerhard**; **Marino, Maria**; **Ninnemann, Ulysses S.**; **O'Connell, Suzanne**; **Ortiz, Joseph D.**; **Stoner, Joseph S.**; **Sugiyama, Kazuhiro**; **Warnke, Detlef A.** and **Zielinski, Ulrich**.

Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998: **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, variously paginated, March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Individual chapters are cited separately; chapters 1-14 are available only on the included CD-ROMs and on the Web. [http://www-odp.tamu.edu/publications/177\\_SR/177TOC.HTM](http://www-odp.tamu.edu/publications/177_SR/177TOC.HTM)

**57005083**

**Hodell, David A.** (University of Florida, Department of Geology, Gainesville, FL); **Gersonde, Rainer** and **Blum, Peter**.

Leg 177 synthesis; insights into Southern Ocean paleoceanography on tectonic to millennial timescales: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 54 p., illus. incl. sketch map, 128 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Also available on CD-ROM in PDF format and the Web in PDF or HTML. *Cenozoic*  
[http://www-odp.tamu.edu/publications/177\\_SR/synth/synth.htm](http://www-odp.tamu.edu/publications/177_SR/synth/synth.htm)

**57005084**

**Latimer, Jennifer C.** (Indiana University-Purdue University Indianapolis, Department of Geology, Indianapolis, IN) and **Filippelli, Gabriel M.**

Sediment geochemistry at Site 1089, Leg 177: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 14 p., illus. incl. 1 table, 4 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML.  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_01/chap\\_01.htm](http://www-odp.tamu.edu/publications/177_SR/chap_01/chap_01.htm)

**57005085**

**Janecek, Thomas R.** (Florida State University, Antarctic Research Facility, Tallahassee, FL).

Late Pleistocene biogenic opal data for Leg 177 sites 1093 and 1094: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 5 p., illus. incl. 1 table, 2 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML.  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_02/chap\\_02.htm](http://www-odp.tamu.edu/publications/177_SR/chap_02/chap_02.htm)

**57005086**

**Wellsbury, Peter (University of Bristol, Department of Earth Sciences, Bristol, United Kingdom); Mather, Ian D. and Parkes, R. John.**

Bacterial abundances and pore water acetate concentrations in sediments of the Southern Ocean (sites 1088 and 1093): *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 12 p., illus. incl. sketch map, 31 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Available only on CD-ROM in PDF format and on the Web in PDF or HTML.

[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_03/chap\\_03.htm](http://www-odp.tamu.edu/publications/177_SR/chap_03/chap_03.htm)

**57005087**

**Murphy, L. (California State University at Hayward, Department of Geological Sciences, Hayward, CA) and Warnke, Detlef A.**

Ice-rafted debris of the Pliocene portion of ODP Site 1092: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 6 p., 1 table, 3 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML. *Foraminifera, Radiolaria, Southern Ocean*

[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_05/chap\\_05.htm](http://www-odp.tamu.edu/publications/177_SR/chap_05/chap_05.htm)

**57005088**

**O'Connell, Suzanne (Wesleyan University, Department of Earth and Environmental Sciences, Middletown, CT) and Ortiz, Joseph D.**

Calcium carbonate stratigraphy from sample measurements and diffuse spectral reflectance at Site 1090, ODP Leg 177: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 24 p., illus. incl. sect., 5 tables, sketch map, 14 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML.

[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_06/chap\\_06.htm](http://www-odp.tamu.edu/publications/177_SR/chap_06/chap_06.htm)

**57005089**

**Marino, Maria (Universita di Bari, Dipartimento di Geologia e Geofisica, Bari, Italy) and Flores, José Abel.**

Calcareous nannofossil data from the Eocene to Oligocene, Leg 177, Hole 1090B: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 9 p., 1 plate, 1 table, sketch map, 8 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML; includes appendix. *Southern Ocean*

[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_08/chap\\_08.htm](http://www-odp.tamu.edu/publications/177_SR/chap_08/chap_08.htm)

**57005090**

**Hodell, David A. (University of Florida, Department of Geology, Gainesville, FL); Charles, Christopher D.; Curtis, Jason H.; Mortyn, P. Graham; Ninnemann, Ulysses S. and Venz, Kathryn A.**

Oxygen isotope stratigraphy of ODP Leg 177 sites 1088, 1089, 1090, 1093, and 1094: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 26 p., illus. incl. 7 tables, sketch map, 19 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML. *Cenozoic, Southern Ocean*  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_09/chap\\_09.htm](http://www-odp.tamu.edu/publications/177_SR/chap_09/chap_09.htm)

**57005091**

**Censarek, Bernd (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany) and Gersonde, Rainer.**

Relative abundance and stratigraphic ranges of selected diatoms from Miocene sections at ODP sites 689, 690, 1088, and 1092 (Atlantic sector of the Southern Ocean): *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 14 p., 4 tables, 11 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML.  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_10/chap\\_10.htm](http://www-odp.tamu.edu/publications/177_SR/chap_10/chap_10.htm)

**57005092**

**Zielinski, Ulrich (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany) and Gersonde, Rainer.**

Relative abundance and ranges of selected diatoms from Pliocene-Pleistocene sections of ODP Leg 177, sites 1089-1094: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 10 p., 6 tables, 14 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML. *Southern Ocean*  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_11/chap\\_11.htm](http://www-odp.tamu.edu/publications/177_SR/chap_11/chap_11.htm)

**57005093**

**Kleiven, Helga Flesche (University of Bergen, Institute of Geology, Bergen, Norway) and Jansen, Eystein.**

Early-mid-Pleistocene oxygen isotope stratigraphy from the Atlantic sector of the Southern Ocean; ODP Leg 177 sites 1094 and 1091: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 20 p., illus. incl. 3 tables, sketch map, 10 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML.  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_12/chap\\_12.htm](http://www-odp.tamu.edu/publications/177_SR/chap_12/chap_12.htm)

**57005094**

**Kuhn, Gerhard (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany) and Diekmann, Bernhard.**

Bulk sediment composition, grain-size, clay and silt mineralogy of Pleistocene sediments from ODP Leg 177 sites 1089 and 1090: *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 10 p., illus. incl. 4 tables, 17 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML.  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_13/chap\\_13.htm](http://www-odp.tamu.edu/publications/177_SR/chap_13/chap_13.htm)

**57005095**

**Becquey, Sabine (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany) and Gersonde, Rainer.**

Early and mid-Pleistocene (MIS 65-11) summer sea-surface temperature, foraminiferal fragmentation, and ice-rafted debris records from the Subantarctic (ODP Leg 177 Site 1090): *in* Proceedings of the Ocean Drilling Program, scientific results; Southern Ocean paleoceanography; covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088-1094; 9 December 1997-5 February 1998 (Gersonde, Rainer; *et al.*), **Proceedings of the Ocean Drilling Program, Scientific Results (CD-Rom)**, 177, 23 p., illus. incl. 3 tables, sketch map, 36 ref., March 2003. (CD-ROM format, ISSN 1096-2514; WWW format, ISSN 1096-7451). Data report; available only on CD-ROM in PDF format and on the Web in PDF or HTML; includes appendix.  
[http://www-odp.tamu.edu/publications/177\\_SR/chap\\_14/chap\\_14.htm](http://www-odp.tamu.edu/publications/177_SR/chap_14/chap_14.htm)

**57005096**

**Kondrat'ev, K. Ia.**

Arkticheskaiia okruzhaiushchaia sreda; 1, Kontseptual'nye aspekty [Arctic environment; 1, Conceptual aspects]: **Izvestiia Russkogo Geograficheskogo Obshchestva**, 134(5), p. 1-10, 2 tables, 55 ref., October 2002.

**57005097**

**Boger, S. D. (University of Melbourne, School of Earth Sciences, Melbourne, Victoria, Australia) and Wilson, C. J. L.**

Brittle faulting in the Prince Charles Mountains, East Antarctica; Cretaceous transtensional tectonics related to the break-up of Gondwana: **Tectonophysics**, 367(3-4), p. 173-186, illus. incl. sect., 1 table, geol. sketch map, 41 ref., June 12, 2003.

**57005098**

**Vallelonga, P. (Curtin University of Technology, Department of Applied Physics, Perth, West. Aust., Australia); Candelone, J. P.; Van de Velde, K.; Curran, M. A. J.; Morgan, V. I. and Rosman, K. J. R.**

Lead, Ba and Bi in Antarctic Law Dome ice corresponding to the 1815 AD Tambora eruption; an assessment of emission sources using Pb isotopes: **Earth and Planetary Science Letters**, 211(3-4), p. 329-341, illus. incl. 1 table, sketch map, 39 ref., June 30, 2003.

**57005099**

**Hong, Y. T.** (Chinese Academy of Sciences, State Key Laboratory of Environmental Geochemistry, Guiyang, China); **Hong, B.**; **Lin, Q. H.**; **Zhu, Y. X.**; **Shibata, Yasuyuki**; **Hirota, Masashi**; **Uchida, Masao**; **Leng, X. T.**; **Jiang, H. B.**; **Xu, H.**; **Wang, H.** and **Yi, L.**

Correlation between Indian Ocean summer monsoon and North Atlantic climate during the Holocene: **Earth and Planetary Science Letters**, 211(3-4), p. 371-380, illus. incl. 1 table, sketch map, 34 ref., June 30, 2003.

**57005100**

**Thorbrietz, Petra**, editor.

Agenda edition No. 1; Water, reflections on an element: RWE, Essen, Federal Republic of Germany, 99 p., illus., 2003.

**57005101**

**Fleitmann, Dominik** (University of Bern, Institute of Geological Sciences, Bern, Switzerland); **Burns, Stephen J.**; **Mudelsee, Manfred**; **Neff, Ulrich**; **Kramers, Jan**; **Mangini, Augusto** and **Matter, Albert**.

Holocene forcing of the Indian monsoon recorded in a stalagmite from southern Oman: **Science**, 300(5626), p. 1737-1739, illus., 32 ref., June 13, 2003.

**57005102**

**Kerr, Richard A.**

Can northern snow foretell next winter's weather?: **Science**, 300(5627), p. 1865-1866, illus. incl. sketch map, June 20, 2003.

**57005103**

**Mitrofanov, I. G.** (Russian Academy of Sciences, Space Research Institute, Moscow, Russian Federation); **Zuber, M. T.**; **Litvak, M. L.**; **Boynton, W. V.**; **Smith, D. E.**; **Drake, D.**; **Hamara, D.**; **Kozyrev, A. S.**; **Sanin, A. B.**; **Shinohara, C.**; **Saunders, R. S.** and **Tretyakov, V.** CO<sub>2</sub> snow depth and subsurface water-ice abundance in the Northern Hemisphere of Mars: **Science**, 300(5628), p. 2081-2084, illus., 41 ref., June 27, 2003.

**57005104**

**Astley, Beth N.** (Cold Regions Research and Engineering Laboratory, Fort Richardson, AK); **Delaney, Allan**; **Bigl, Susan R.**; **Snyder, Colby F.**; **Lawson, Daniel E.** and **Baker, Gregory S.**

Combining geophysical techniques for hydrogeologic modeling at Fort Richardson, Alaska [abstr.]: in Geological Society of America, 2000 annual meeting, **Abstracts with Programs - Geological Society of America**, 32(7), p. 289, 2000. *Meeting*: Nov. 9-18, 2000, Reno, NV. CRREL Report No: ERDC/CRREL MP-03-6052

**57005114**

**Muir, Derek** (Environment Canada, National Water Research Institute, Burlington, ON, Canada); **Riget, Frank**; **Cleemann, Marianne**; **Skaare, Janneche**; **Kleivane, Lars**; **Nakata, Haruhiko**; **Dietz, Rune**; **Severinsen, Torbjorn** and **Tanabe, Shinsuke**.

Circumpolar trends of PCBs and organochlorine pesticides in the Arctic marine environment inferred from levels in ringed seals: **Environmental Science & Technology**, ES & T, 34(12), p. 2431-2438, illus. incl. 1 table, 37 ref., June 15, 2000.

**57005115**

**Eden, David J. (Golder Associates, Mississauga, ON, Canada) and Eyles, Nicholas.**

Case study of a relict iceberg scour exposed at Scarborough Bluffs, Toronto, Ontario; implications for pipeline engineering: **Canadian Geotechnical Journal = Revue Canadienne de Géotechnique**, 39(3), p. 519-534 (French sum.), illus. incl. sects., 2 tables, sketch maps, 65 ref., June 2002.

**57005116**

**Coté, J. (Université Laval, Département de Génie Civil, Sainte-Foy, PQ, Canada) and Konrad, J. M.**

A field study of hoarfrost formation on insulated pavements: **Canadian Geotechnical Journal = Revue Canadienne de Géotechnique**, 39(3), p. 547-560 (French sum.), illus. incl. 1 table, 24 ref., June 2002.

**57005117**

**Hagen, Dagmar (Norwegian University of Science and Technology, Trondheim, Norway).**

Propagation of native Arctic and alpine species with a restoration potential: **Polar Research**, 21(1), p. 37-47, illus. incl. 2 tables, 87 ref., 2002.

**57005118**

**Heikkinen, Juha E. P. (University of Kuopio, Department of Environmental Sciences, Kuopio, Finland); Maljanen, Marja; Aurela, Mika; Hargreaves, Ken J. and Martikainen, Pertti J.**

Carbon dioxide and methane dynamics in a sub-Arctic peatland in northern Finland: **Polar Research**, 21(1), p. 49-62, illus. incl. 6 tables, 45 ref., 2002.

**57005119**

**Bruland, Oddbjorn (Norwegian University of Science and Technology, Trondheim, Norway) and Hagen, Jon Ove.**

Glacial mass balance of Austre Broggerbreen (Spitsbergen), 1971-1999, modelled with a precipitation-run-off model: **Polar Research**, 21(1), p. 109-121, illus. incl. 2 tables, sketch map, 42 ref., 2002.

**57005120**

**Glasser, Neil F. (University of Wales, Institute of Geography and Earth Sciences, Ceredigion, United Kingdom) and Hambrey, Michael J.**

$\delta D$ - $\delta^{18}O$  relationships on a polythermal valley glacier; Midtre Lovénbreen, Svalbard: **Polar Research**, 21(1), p. 123-131, illus. incl. 2 tables, sketch map, 39 ref., 2002.

**57005121**

**Svendsen, Harald (University of Bergen, Geophysical Institute, Bergen, Norway); Beszczynska-Moller, Agnieszka; Hagen, Jon Ove; Lefauconnier, Bernard; Tverberg, Vigdis; Gerland, Sebastian; Orbaek, Jon Borre; Bischof, Kai; Papucci, Carlo; Zajaczkowski, Marek; Azzolini, Roberto; Bruland, Oddbjorn; Wiencke, Christian; Winther, Jan-Gunnar and Dallmann, Winfried.**

The physical environment of Kongsfjorden-Krossfjorden, an Arctic fjord system in Svalbard: **Polar Research**, 21(1), p. 133-166, illus. incl. 3 tables, sketch map, 116 ref., 2002.

**57005122**

**Hop, Haakon (Norwegian Polar Institute, Polar Environmental Centre, Tromso, Norway); Pearson, Tom; Hegseth, Else Nost; Kovacs, Kit M.; Wiencke, Christian; Kwasniewski, Slawek; Eiane, Ketil; Mehlum, Fridtjof; Gulliksen, Bjorn; Wlodarska-Kowalczyk, Maria; Lydersen, Christian; Weslawski, Jan Marcin; Cochrane, Sabine; Gabrielsen, Geir Wing; Leakey, Raymond J. G.; Lonne, Ole Jorgen; Zajaczkowski, Marek; Falk-Petersen, Stig; Kendall, Mike; Wangberg, Sten-Ake; Bischof, Kai; Voronkov, Andrey Y.; Kovaltchouk, Nikolaj A.; Wiktor, Jozef; Poltermann, Michael; Di Prisco, Guido; Papucci, Carlo and Gerland, Sebastian.**

The marine ecosystem for Kongsfjorden, Svalbard: **Polar Research**, 21(1), p. 167-208, illus. incl. 11 tables, sketch map, 254 ref., 2002.

**57005123**

**Grollimund, Balz Remy.**

Impact of deglaciation on stress and implications for seismicity and hydrocarbon exploration: 189 p., Doctoral, 2001, Stanford University, Stanford, CA. ISBN: 0-493-08669-2 *Available from:* Univ. Microfilms.

**57005124**

**Wu, M. S. (Massachusetts Institute of Technology, Cambridge, MA) and Shyam Sunder, S.**

Elastic anisotropy and micro-damage processes in polycrystalline ice; I, Theoretical formulation: **International Journal of Fracture**, 55(3), p. 223-243, illus., 34 ref., 1992.

**57005187**

**Rodell, Matthew.**

Estimating changes in terrestrial water storage: 130 p., Doctoral, 2000, University of Texas, Austin, Austin, TX. ISBN: 0-493-13875-7 *Available from:* Univ. Microfilms.

**57005188**

**Bourgeois, Jocelyne C.**

Modern and Holocene pollen assemblages from Arctic ice caps: 193 p., Doctoral, 2000, University of Ottawa, Ottawa, ON, Canada. ISBN: 0-612-57023-1 *Available from:* Univ. Microfilms.

**57005189**

**Lajeunesse, Patrick.**

Géomorphologie et géologie du Quaternaire de la région de la Rivière Nastapoka, côte est de la Baie d'Hudson, Québec [Geomorphology and Quaternary geology of the Nastapoka River region, east coast of Hudson Bay, Quebec]: 239 p., (French, English), Doctoral, 2000, Université Laval, Ste.-Foy, PQ, Canada. ISBN: 0-612-56840-7 *Available from:* Univ. Microfilms.

**57005191**

**Abdalati, W. (NASA, Goddard Space Flight Center, Laboratory for Hydrospheric Processes, Greenbelt, MD) and Krabill, W. B.**

Application of aircraft laser altimetry to glacier and ice cap mass balance studies: *in* Mapping surface structure and topography by airborne and spaceborne lasers (Csatho, Beata M., editor), **International Archives of Photogrammetry and Remote Sensing = Archives Internationales de Photogrammetrie et de Télédétection = International Archiv der Photogrammetrie und Fernerkundung**, 32, Part 3, p. 161-166, illus. incl. sketch maps, 7 ref., November 1999. *Meeting:* Nov. 9-11, 1999, La Jolla, CA.

**57005192**

**Spikes, Blue (Ohio State University, Byrd Polar Research Center, Columbus, OH); Csatho, Beata M. and Whillans, Ian.**

Airborne laser profiling of Antarctic ice stream for change detection: *in* Mapping surface structure and topography by airborne and spaceborne lasers (Csatho, Beata M., editor), **International Archives of Photogrammetry and Remote Sensing = Archives Internationales de Photogrammetrie et de Télédetection = International Archiv der Photogrammetrie und Fernerkundung**, 32, Part 3, p. 169-175, illus. incl. sketch map, 20 ref., November 1999. *Meeting*: Nov. 9-11, 1999, La Jolla, CA.

**57005193**

**Levson, Victor M.; Stumpf, A. J.; Cook, S. J.; O'Brien, E. K.; Weary, G. F.; Churchill, C.; Hobday, J.; Huntley, D. H.; Meldrum, D. G.; Lett, R.; Ferbey, T.; Jackaman, W.; Cleary, K. E.; Dubois, J. and Rocha, C.**

Quaternary geology and till geochemistry of the Babine porphyry copper belt, British Columbia (NTS 93 L/9,16, M/1,2,7,8): **Bulletin - British Columbia Ministry of Energy and Mines, Energy and Minerals Division, Geological Survey Branch**, 110, 278 p. 2 sheets, illus. incl. 4 tables; colored surficial geology map, 1:100,000; site location map, 69 ref., March 2002. Includes appendices, one CD-ROM and two transparencies.

**57005195**

**Schoss, Irene R. (Instituto Antartico Argentine, Buenos Aires, Argentina); Ferreyra, Gustavo A. and Ruiz-Pino, Diana.**

Phytoplankton biomass in Antarctic shelf zones; a conceptual model based on Potter Cove, King George Island: **Journal of Marine Systems**, 36(3-4), p. 129-143, illus. incl. 2 tables, sketch maps, 51 ref., October 2002. Includes appendix.

**57005196**

**Grayson, Rodger B. (University of Melbourne, Department of Civil and Environmental Engineering, Melbourne, Victoria, Australia); Blöschl, Günter; Western, Andrew W. and McMahon, Thomas A.**

Advances in the use of observed spatial patterns of catchment hydrological response: *in* 25 years, Advances in Water Resources (Miller, C. T., editor; *et al.*), **Advances in Water Resources**, 25(8-12), p. 1313-1334, illus., 128 ref., December 2002.

**57005197**

**Schmugge, Thomas J. (U. S. Department of Agriculture, Agricultural Research Service, Beltsville, MD); Kustas, William P.; Ritchie, Jerry C.; Jackson, Thomas J. and Rango, Al.** Remote sensing in hydrology: *in* 25 years, Advances in Water Resources (Miller, C. T., editor; *et al.*), **Advances in Water Resources**, 25(8-12), p. 1367-1385, illus., 139 ref., December 2002.

**57005198**

**Tagliabue, Alessandro (Stanford University, Department of Geophysics, Stanford, CA) and Arrigo, Kevin R.**

Anomalously low zooplankton abundance in the Ross Sea; an alternative explanation: **Limnology and Oceanography**, 48(2), p. 686-699, illus. incl. 3 tables, 60 ref., March 2003. NSF Grant OPP-9696045.

**57005199**

**Mokhov, I. I. (Russian Academy of Sciences, Oboukhov Institute of Atmospheric Physics, Moscow, Russian Federation); Semenov, V. A. and Khon, V. Ch.**

Estimates of possible regional hydrologic regime changes in the 21st century based on global climate models: *Izvestiya Akademii Nauk. Rossiyskaya Akademiya Nauk. Fizika Atmosfery i Okeana*, 39(2), p. 130-144, illus. incl. 7 tables, 56 ref., April 2003.

**57005200**

**Gruza, G. V. (Institute of Global Climate and Ecology, Moscow, Russian Federation) and Ran'kova, E. Ya.**

Climate oscillations and changes over Russia: *Izvestiya Akademii Nauk. Rossiyskaya Akademiya Nauk. Fizika Atmosfery i Okeana*, 39(2), p. 145-162, illus. incl. 1 table, 12 ref., April 2003.

**57005201**

**Anisimov, O. A. (State Hydrological Institute, Saint Petersburg, Russian Federation) and Belolutsкая, M. A.**

Present warming as an analogue of the future climate: *Izvestiya Akademii Nauk. Rossiyskaya Akademiya Nauk. Fizika Atmosfery i Okeana*, 39(2), p. 187-196, 21 ref., April 2003.

**57005202**

**Izvestiya Editorial Board, Atmospheric and Oceanic Physics.**

Mikhail Ivanovich Budyko (1920-2001): *Izvestiya Akademii Nauk. Rossiyskaya Akademiya Nauk. Fizika Atmosfery i Okeana*, 39(2), p. 127-129, portr., April 2003.

**57005203**

**Volodin, E. M. (Russian Academy of Science, Institute of Numerical Mathematics, Moscow, Russian Federation) and Diansky, N. A.**

Response of a coupled atmosphere-ocean general circulation model to increased carbon dioxide: *Izvestiya Akademii Nauk. Rossiyskaya Akademiya Nauk. Fizika Atmosfery i Okeana*, 39(2), p. 170-186, illus. incl. 1 table, 31 ref., April 2003.

**57005204**

**Klige, R. K. and Zakharov, V. G.**

Svyaz' izmenenii urovnya mirovogo okeana i dinamiki kraevoi chasti Antarktity v istoricheskoe vremya [Relationship of world ocean level and dynamic changes of marginal part of Antarctica in historical time]: *Arktika i Antarktika*, 35, p. 60-70, 258 (English sum.), illus., 29 ref., 2002.

**57005205**

**Fedorova, I. V.; Verkulich, S. R.; Kuz'mina, I. N. and Pomelov, V. N.**

Vliianie proshlykh i sovremennykh prirodnykh uslovii na ozera oazisa Bangerera; vostochnaia Antarktida [Influence of past and present environmental conditions on current state of lakes in Bunger Oasis, East Antarctica]: *Arktika i Antarktika*, 35, p. 71-81, 258 (English sum.), 23 ref., 2002.

**57005206**

**Barkov, N. I.; Vostretsov, R. N.; Lipenkov, V. Ia. and Salamatin, A. N.**

Kolebaniia temperatury vozdukha i osadkov v rayone stantsii vostok na protyazhenii chetyrekh klimaticheskikh tsiklov za poslednie 420 tysyach let [Variations of air temperature and precipitation in Vostok Station area during four climatic cycles over last 420 thousand years]: **Arktika i Antarktika**, 35, p. 82-97, 258 (English sum.), illus. incl. 4 tables, 22 ref., 2002. Includes appendices.

**57005207**

**Abyzov, S. S.; Barkov, N. I.; Bobin, N. E.; Veslopolova, E. F.; Kudryashov, B. B.; Lipenkov, V. Ia.; Mitskevich, I. N.; Pashkevich, V. M. and Poglazova, M. N.**

Bakterii i odnokletochnye vodorosli v tolshche lednika tsentral'noi Antarktity [Bacteria and unicellular algae in central Antarctica ice sheet]: **Arktika i Antarktika**, 35, p. 98-108, 259 (English sum.), illus. incl. 1 table, 16 ref., 2002.

**57005208**

**Agatova, A. I.; Lapina, N. M. and Torgunova, N. I.**

Organicheskoe veshchestvo v vodakh Arkticheskikh morei [Organic matter in Arctic Ocean water]: **Arktika i Antarktika**, 35, p. 172-192, 260-261 (English sum.), illus. incl. 1 table, 21 ref., 2002.

**57005209**

**Zernova, V. V.; Shevchenko, V. P. and Politova, N. V.**

Fitoplankton severo-vostochnoi chasti barentseva morya v osennii period [Phytoplankton of northeastern part of Barents Sea in autumn]: **Arktika i Antarktika**, 35, p. 193-211, 261 (English sum.), illus. incl. 4 tables, 29 ref., 2002.

**57005210**

**Zernova, V. V. and Demidov, A. B.**

Fitoplankton i khlorofill v pribrezhnoi Antarktike [Phytoplankton and chlorophyll in coastal Antarctica]: **Arktika i Antarktika**, 35, p. 212-220, 261 (English sum.), illus. incl. 2 tables, 30 ref., 2002.

**57005211**

**Konovalov, B. V.**

Pogloshchenie sveta fitoplanktonom subpolyarnykh regionov [Light absorption by phytoplankton in subpolar regions]: **Arktika i Antarktika**, 35, p. 221-236, 262 (English sum.), illus. incl. 2 tables, 13 ref., 2002.

**57005212**

**Teshebaev, Sh. B.**

Kachestvennyy i kolichestvennyy sostav mikrobioty vtorichnykh nazemnykh ekosistem v rayonakh beregovykh Antarkticheskikh stantsii [Qualitative and quantitative analysis of microbiota composition of secondary terrestrial ecosystems in coastal Antarctic stations area]: **Arktika i Antarktika**, 35, p. 237-256, 262 (English sum.), illus. incl. 2 tables, 81 ref., 2002.

**57005213**

**Parkinson, Claire L. (NASA, Goddard Space Flight Center, Greenbelt, MD); Chahine, Moustafa T.; Kummerow, Christian D. and Salomonson, Vincent V., editors.**

The EOS Aqua Mission: **IEEE Transactions on Geoscience and Remote Sensing**, 41(2), p. 171-501, illus. incl. tables, sketch map, February 2003. Individual papers within scope are cited separately.

**57005214**

**Kelly, Richard E. (University of Maryland at Baltimore County, Goddard Earth Science and Technology Center, Baltimore, MD); Chang, Alfred T.; Tsang, Leung and Foster, James L.**

A prototype AMSR-E global snow area and snow depth algorithm: *in* The EOS Aqua Mission (Parkinson, Claire L., editor; *et al.*), **IEEE Transactions on Geoscience and Remote Sensing**, 41(2), p. 230-242, illus. incl. 3 tables, sketch map, 40 ref., February 2003.

**57005215**

**Comiso, Josefino C. (NASA, Goddard Space Flight Center, Greenbelt, MD); Cavalieri, Donald J. and Markus, Thorsten.**

Sea ice concentration, ice temperature, and snow depth using AMSR-E data: *in* The EOS Aqua Mission (Parkinson, Claire L., editor; *et al.*), **IEEE Transactions on Geoscience and Remote Sensing**, 41(2), p. 243-252, illus. incl. sketch maps, 47 ref., February 2003.

**57005216**

**Gao, Bo-Cai (Naval Research Laboratory, Remote Sensing Division, Washington, DC); Yang, Ping and Li, Rong-Rong.**

Detection of high clouds in polar regions during the daytime using the MODIS 1.375- $\mu\text{m}$  channel: *in* The EOS Aqua Mission (Parkinson, Claire L., editor; *et al.*), **IEEE Transactions on Geoscience and Remote Sensing**, 41(2), p. 474-481, illus., 22 ref., February 2003.

**57005217**

**Key, Jeffrey R. (National Oceanic and Atmospheric Administration, National Environmental Satellite, Data, and Information Service, Madison, WI); Santek, David; Velden, Christopher S.; Bormann, Niels; Thépaut, Jean-Noël; Riishojgaard, Lars Peter; Zhu, Yanqiu and Menzel, W. Paul.**

Cloud-drift and water vapor winds in the polar regions from MODIS: *in* The EOS Aqua Mission (Parkinson, Claire L., editor; *et al.*), **IEEE Transactions on Geoscience and Remote Sensing**, 41(2), p. 482-492, illus. incl. sketch maps, 25 ref., February 2003.

**57005218**

**Denham, David.**

Greenhouse gases and climate change: **Preview (Brisbane, Qld.)**, 103, p. 27, 28-29, 4 ref., April 2003.

**57005219**

**Guo, Jianjun (University of Washington, Department of Electrical Engineering, Seattle, WA); Tsang, Leung; Josberger, Edward G.; Wood, Andrew W.; Hwang, Jenq-Neng and Lettenmaier, Dennis P.**

Mapping the spatial distribution and time evolution of snow water equivalent with passive microwave measurements: **IEEE Transactions on Geoscience and Remote Sensing**, 41(3), p. 612-621, illus. incl. 3 tables, 26 ref., March 2003.

**57005220**

**Zhang, Yuanzhi (Helsinki University of Technology, Laboratory of Space Technology, Espoo, Finland); Pulliainen, Jouni T.; Koponen, Sampsa S. and Hallikainen, Martti T.** Water quality retrievals from combined Landsat TM data and ERS-2 SAR data in the Gulf of Finland: **IEEE Transactions on Geoscience and Remote Sensing**, 41(3), p. 622-629, illus. incl. 3 tables, 40 ref., March 2003.

**57005221**

**Wang, James R. (NASA, Goddard Space Flight Center, Laboratory for Hydrospheric Processes, Greenbelt, MD) and Manning, Will.**

Retrievals of low integrated water vapor using MIR and SSM/T-2 measurements: **IEEE Transactions on Geoscience and Remote Sensing**, 41(3), p. 630-639, illus. incl. 1 table, sketch map, 26 ref., March 2003.

**57005222**

**Petit, Rémy J. (Institut National de la Recherche Agronomique, UMR Biodiversité, Gènes et Ecosystèmes, Cestas, France); Aguinagalde, Itziar; de Beaulieu, Jacques-Louis; Bittkau, Christiane; Brewer, Simon; Cheddadi, Rachid; Ennos, Richard; Fineschi, Silvia; Grivet, Delphine; Lascoux, Martin; Mohanty, Aparajita; Müller-Starck, Gerhard; Demesure-Musch, Brigitte; Palmé, Anna; Martín, Juan Pedro; Rendell, Sarah and Vendramin, Giovanni G.**

Glacial refugia; hotspots but not melting pots of genetic diversity: **Science**, 300(5625), p. 1563-1565, 1 table, sketch maps, 30 ref., June 6, 2003.

**57005223**

**Kerr, Richard A.**

Running water eroded a frigid early Mars: **Science**, 300(5625), p. 1496-1497, illus., June 6, 2003.

**57005224**

**Berry, William B. N. (University of California at Berkeley, Department of Earth & Planetary Science, Berkeley, CA).**

Late Ordovician environmental changes in Carnic Alps and central Nevada; a comparative study: **Bulletin de la Société Géologique de France**, 174(3), p. 211-216 (French sum.), illus. incl. strat. cols., 1 table, geol. sketch maps, 22 ref., 2003. *Chitinozoa, Conodonta*

**57005225**

**Hambrey, Michael J. (University of Wales, Centre for Glaciology, Aberystwyth, United Kingdom) and Glasser, Neil F.**

The role of folding and foliation development in the genesis of medial moraines; examples from Svalbard glaciers: **Journal of Geology**, 111(4), p. 471-485, illus. incl. block diags., sketch maps, 28 ref., July 2003.

**57005272**

**Malaroda, Roberto (Universita di Torino, Dipartimento di Scienze della Terra, Turin, Italy).**

Neotettonica e glacialismo nella parte meridionale dell'alta Val Vesubie (Alpes Maritimes, Francia) [Neotectonics and glaciation in the southern part of the upper Vesubie Valley, Alpes Maritimes, France]: **Atti della Accademia Nazionale dei Lincei. Rendiconti Lincei. Scienze Fisiche e Naturali**, 9(11, 3), p. 143-150 (English sum.), geol. sketch maps, 5 ref., 2000.

**57005273**

**Boutron, C. F. (Domaine Universitaire, Laboratoire de Glaciologie et Géophysique de l'Environnement, Martin d'Herès, France); Görlach, U.; Candelone, J. P.; Bolshov, M. A. and Delmas, R. J.**

Decrease in anthropogenic lead, cadmium and zinc in Greenland snows since the late 1960s: *in* The human impact reader; readings and case studies (Goudie, Andrew, editor; *et al.*), Blackwell Publishers, Oxford, United Kingdom, p. 330-335, illus. incl. 2 tables, 27 ref., 1997. Originally published in *Nature*, Vol. 353, p. 153-156, 1991.

**57005274**

**Foschi, P. G. (San Francisco State University, San Francisco, CA); Pagan, K. L.; Garcia, O.; Smith, D. K.; Gaines, S. E. and Hipkind, R. S.**

Using back-propagation neural networks to analyze hyperspatial and hypertemporal data to detect polar stratospheric clouds over Antarctica [abstr.]: *in* Proceedings of the second international airborne remote sensing conference and exhibition; technology, measurement and analysis; volume III (Rogers, R. H., chairperson), **Proceedings - International Airborne Remote Sensing Conference and Exhibition**, 2, Vol. 3, p. 249-250, 1996. *Meeting*: June 24-27, 1996, San Francisco, CA.

**57005275**

**Haltrin, Vladimir I. (Naval Research Laboratory, Ocean Sciences Branch, Stennis Space Center, MS) and McBride, Walton E., III.**

An algorithm for remote radar real-time assessment of the roughness of Earth's natural surfaces: *in* Proceedings of the second international airborne remote sensing conference and exhibition; technology, measurement and analysis; volume III (Rogers, R. H., chairperson), **Proceedings - International Airborne Remote Sensing Conference and Exhibition**, 2, Vol. 3, p. 267-276, illus., 12 ref., 1996. *Meeting*: June 24-27, 1996, San Francisco, CA.

**57005276**

**Wiebinga, C. J. (Netherlands Institute for Sea Research (NIOZ), Texel, Netherlands) and de Baar, Hein J. W.**

Determination of the distribution of dissolved organic carbon in the Indian sector of the Southern Ocean: **Marine Chemistry**, 61(3-4), p. 185-201, illus. incl. 2 tables, sketch map, 54 ref., August 1998.

**57005277**

**Timmermans, Klaas R. (Netherlands Institute for Sea Research, Texel, Netherlands); Gledhill, Martha; Nolting, Rob F.; Veldhuis, Marcel J. W.; de Baar, Hein J. W. and van den Berg, Constant M. G.**

Responses of marine phytoplankton in iron enrichment experiments in the northern North Sea and Northeast Atlantic Ocean: **Marine Chemistry**, 61(3-4), p. 229-424, illus. incl. 4 tables, sketch map, 56 ref., August 1998.

**57005278**

**Smith, L. Micaela (University of Colorado, Department of Geological Sciences, Boulder, CO); Alexander, Clark and Jennings, Anne E.**

Accumulation in East Greenland fjords and on the continental shelves adjacent to the Denmark Strait over the last century based on <sup>210</sup>Pb geochronology: **Arctic**, 55(2), p. 109-122 (French sum.), illus. incl. 2 tables, sketch map, 50 ref., June 2002. NSF Grants OPP-9615935, OPP-9707161 and OPP-9224254.

**57005279**

**Le Mouël, Jean-François (Laboratoire de Préhistoire, Paris, France) and Le Mouël, Maryke.**

Aspects of early Thule culture as seen in the architecture of a site on Victoria Island, Amundsen Gulf area: **Arctic**, 55(2), p. 167-189 (French sum.), illus. incl. 2 tables, sketch map, 123 ref., June 2002.

**57005280**

**Borden, Richard K. (Kennecott Utah Copper Corporation, Magna, UT) and Troost, Kathy Goetz.**

Late Pleistocene stratigraphy in the south-central Puget Lowland, Pierce County, Washington: **Report of Investigations - Washington, Division of Geology and Earth Resources**, Rep. No. 33, 33 p., illus. incl. sects., strat. cols., 3 tables, sketch maps, 54 ref., December 2001. Includes appendices.

**57005281**

**Imhoff, Marc; Baguio, Margaret; Bandeen, Bill; Griner, Charlotte; King, Michael and Srinivasan, Margaret, editors.**

GRACE; Gravity Recovery And Climate Experiment: 20 p., illus. incl. sketch maps, 2002. *Available from:* U. S. Geological Survey, Library, Reston, VA, United States.

**57005282**

**Stone, D. (Ontario Geological Survey, Precambrian Geoscience Section, Sudbury, ON, Canada).**

A study of indicator minerals for kimberlite, base metals and gold; Kasabonika, Ontario: **Open File Report - Ontario Geological Survey**, Rep. No. 6089, 32 p., illus. incl. 10 tables, geol. sketch maps, 35 ref., 2002.

**57005283**

**Nielsen, E. and Fedikow, M. A. F.**

Kimberlite indicator-mineral survey, lower Hayes River: **Geoscientific Paper**, Rep. No. GP2002-1, 11 p., illus. incl. sketch map, 13 ref., 2002. Includes appendices.

**57005284**

**Johnson, Andrea (Joint Oceanographic Institutions, Washington DC).**

Arctic dreams: **JOI/USSAC Newsletter**, 14(1), p. 1-3, illus. incl. 2 tables, geol. sketch map, 2001.

**57005285**

**Hoffmann, P. (Universität Rostock, Leibniz-Institut für Atmosphärenphysik, Kuhlungsborn, Federal Republic of Germany); Singer, W. and Keuer, D.**

Variability of the mesospheric wind field at middle and Arctic latitudes in winter and its relation to stratospheric circulation disturbances: *in* PSMOS 2000 workshop; planetary scale mesopause observing system (Shepherd, G. Gordon, editor; *et al.*), **Journal of Atmospheric and Solar-Terrestrial Physics**, 64(8-11), p. 1229-1240, illus. incl. 2 tables, 29 ref., July 2002. *Meeting:* May 23-26, 2000, Toronto, ON, Canada.

57005286

**Di Donfrancesco, G. (CNR, Istituto di Fisica dell'Atmosfera, Rome, Italy); Adriani, A.; Gobbi, G. P. and Cairo, F.**

Lidar observations of the stratospheric aerosol during 1993 above McMurdo Station, Antarctica: **Journal of Atmospheric and Solar-Terrestrial Physics**, 62(9), p. 713-723, illus. incl. 1 table, 46 ref., June 2000.

57005287

**Yagüe, C. (Instituto Nacional de Meteorología, Madrid, Spain); Maqueda, G. and Rees, Julia M.**

Characteristics of turbulence in the lower atmosphere at Halley IV Station, Antarctica: *in* Mixing in geophysical and astrophysical flows (Blumen, William, editor; *et al.*), **Dynamics of Atmospheres and Oceans**, 34(2-4), p. 205-223, illus., 28 ref., October 2001. *Meeting*: Third ERCOFTAC conference, Apr. 12-14, 2000, Sheffield, United Kingdom.

57005288

**Rees, Julia M. (University of Sheffield, Department of Applied Mathematics, Sheffield, United Kingdom); Staszewski, W. J. and Winkler, J. R.**

Case study of a wave event in the stable atmospheric boundary layer overlying an Antarctic ice shelf using the orthogonal wavelet transform: *in* Mixing in geophysical and astrophysical flows (Blumen, William, editor; *et al.*), **Dynamics of Atmospheres and Oceans**, 34(2-4), p. 245-261, illus. incl. sketch map, 24 ref., October 2001. *Meeting*: Third ERCOFTAC conference, Apr. 12-14, 2000, Sheffield, United Kingdom.

57005289

**Kay, A. (Loughborough University, Department of Mathematical Sciences, Leicestershire, United Kingdom).**

Thermobaric flow: *in* Mixing in geophysical and astrophysical flows (Blumen, William, editor; *et al.*), **Dynamics of Atmospheres and Oceans**, 34(2-4), p. 263-289, illus., 26 ref., October 2001. *Meeting*: Third ERCOFTAC conference, Apr. 12-14, 2000, Sheffield, United Kingdom.

57005290

**Eide, Arne (University of Tromso, Norwegian College of Fishery Science, Tromso, Norway) and Heen, Knut.**

Economic impacts of global warming; a study of the fishing industry in North Norway: **Fisheries Research**, 56(3), p. 261-274, illus. incl. 6 tables, sketch map, 18 ref., June 2002.

57005291

**Petit, B. (Management Unit of the North Sea Mathematical Models (MUMM), Brussels, Belgium) and Norro, A.**

Seasonal evolution of sea ice and ocean heat flux in the Weddell Sea: **Journal of Marine Systems**, 27(1-3), p. 37-52, illus. incl. 1 table, sketch maps, 29 ref., December 2000.

57005292

**Falk-Petersen, Stig (Norwegian Polar Institute, Tromso, Norway); Hop, Haakon; Budgell, W. Paul; Hegseth, Else N.; Korsnes, Reinert; Loyning, Terje B.; Orbaek, Jon Borre; Kawamura, Toshiyuki and Shirasawa, Kunio.**

Physical and ecological processes in the marginal ice zone of the northern Barents Sea during the summer melt period: **Journal of Marine Systems**, 27(1-3), p. 131-159, illus. incl. sects., 4 tables, sketch maps, 60 ref., December 2000.

**57005293**

**Nikolaev, S. D. (Moscow State University, Geographical Department, Moscow, Russian Federation) and Os'kina, N. S.**

Climatic zonation and types of thermal stratification of the surface water mass in the world ocean during the Oligocene: **Oceanology**, 43(2), p. 247-257, illus. incl. 2 tables, 31 ref., April 2003.

**57005294**

**Worthy, Douglas E. J. (Meteorological Service of Canada, Air Quality Research Branch, Toronto, ON, Canada); Higuchi, Kaz and Chan, Douglas.**

North American influence on atmospheric carbon dioxide data collected at Sable Island, Canada: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 105-114, illus. incl. sketch maps, 23 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005295**

**Higuchi, Kaz (Meteorological Service of Canada, Air Quality Research Branch, Toronto, ON, Canada); Worthy, Douglas E. J.; Chan, Douglas and Shashkov, A.**

Regional source/sink impact on the diurnal, seasonal and inter-annual variations in atmospheric CO<sub>2</sub> at a boreal forest site in Canada: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 115-125, illus. incl. sketch maps, 24 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005296**

**Kawamura, Kenji (Tohoku University, Center for Atmospheric and Oceanic Studies, Sendai, Japan); Nakazawa, Takakiyo; Aoki, Shuji; Sugawara, Satoshi; Fujii, Yoshiyuki and Watanabe, Okitsugu.**

Atmospheric CO<sub>2</sub> variations over the last three glacial-interglacial climatic cycles deduced from the Dome Fuji deep ice core, Antarctica using a wet extraction technique: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 126-137, illus. incl. sketch maps, 46 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005297**

**Leuenberger, M. C. (University of Bern, Climate and Environmental Physics, Bern, Switzerland); Eyer, M.; Nyfeler, P.; Stauffer, B. and Stocker, T. F.**

High-resolution  $\delta^{13}\text{C}$  measurements on ancient air extracted from less than 10 cm<sup>3</sup> of ice: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 138-144, illus. incl. 1 table, 12 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005298**

**Sugawara, Satoshi (Miyagi University of Education, Institute of Earth Science, Sendai, Japan); Kawamura, Kenji; Aoki, Shuji; Nakazawa, Takakiyo and Hashida, Gen.**

Reconstruction of past variations of  $\delta^{13}\text{C}$  in atmospheric CO<sub>2</sub> from its vertical distribution observed in the firn at Dome Fuji, Antarctica: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 159-169, illus. incl. 1 table, 31 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005299**

**Morimoto, Shinji (National Institute of Polar Research, Itabashi-ku, Japan); Nakazawa, Takakiyo; Aoki, Shuji; Hashida, Gen and Yamanouchi, Takashi.**

Concentration variations of atmospheric CO<sub>2</sub> observed at Syowa Station, Antarctica from 1984 to 2000: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 170-177, illus. incl. sketch maps, 20 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005300**

**Aoki, Shuji (Tohoku University, Center for Atmospheric and Oceanic Studies, Sendai, Japan); Nakazawa, Takakiyo; Machida, T.; Sugawara, Satoshi; Morimoto, Shinji; Hashida, Gen; Yamanouchi, Takashi; Kawamura, Kenji and Honda, H.**

Carbon dioxide variations in the stratosphere over Japan, Scandinavia and Antarctica: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 178-186, illus. incl. sketch map, 44 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005301**

**Harazono, Yoshinobu (National Institute for Agro-Environmental Sciences, Tsukuba, Japan); Mano, Masayoshi; Miyata, Akira; Zulueta, Rommel C. and Oechel, Walter C.**

Inter-annual carbon dioxide uptake of a wet sedge tundra ecosystem in the Arctic: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 215-231, illus., 58 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan. NSF Grant OPP-9732109.

**57005302**

**Larionova, A. A. (Institute of Physico-Chemical and Biological Problems in Soil Science, Moscow, Russian Federation); Rozanova, L. N.; Yevdokimov, I. V.; Yermolayev, A. M.; Kurganova, I. N. and Blagodatsky, S. A.**

Land-use change and management effects on carbon sequestration in soils of Russia's south taiga zone: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 331-337, illus., 20 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005303**

**Midorikawa, Takashi (Japan Meteorological Agency, Climate and Marine Department, Chiyoda-ku, Japan); Ogawa, Kan; Nemoto, Kazuhiro; Kamiya, Hitomi; Umeda, Takafumi; Hiraiishi, Naotaka; Wada, Akira and Ishii, Masao.**

Interannual variations of net community production and air-sea CO<sub>2</sub> flux from winter to spring in the western subarctic North Pacific: *in* 6th international carbon dioxide conference (Tans, Pieter, editor; *et al.*), **Tellus, Series B: Chemical and Physical Meteorology**, 55(2), p. 466-477, illus. incl. 2 tables, 31 ref., April 2003. *Meeting*: Oct. 1-5, 2001, Sendai, Japan.

**57005304**

**Knutz, Paul C. (Cardiff University, Department of Earth Sciences, Cardiff, United Kingdom); Hall, Ian R.; Zahn, Rainer; Rasmussen, Tine L.; Kuijpers, Antoon; Moros, Matthias and Shackleton, Nicholas J.**

Multidecadal ocean variability and NW European ice sheet surges during the last deglaciation: **Geochemistry, Geophysics, Geosystems - G<sup>3</sup>**, 3(12), 9 p., illus. incl. table, sketch map, 48 ref., 2002. WWW. Accessed on Feb. 3, 2003; includes appendices.

**57005305**

**Jiang Fengqing (Chinese Academy of Sciences, Xinjiang Institute of Ecology and Geography, Urumqi, China); Zhu Cheng; Wei Wenshou and Abe, Osamu.**

Some results of snow chemical surveys in the Kunnes River valley, East Tianshan Mountains, China: **Atmospheric Environment (1994)**, 36(31), p. 4941-4949, illus. incl. 3 tables, sketch maps, 21 ref., October 2002.

**57005306**

**Sun Liguang (University of Science and Technology of China, Institute of Polar Environment, Hefei, China); Zhu Renbin; Xie Zhouqing and Xing Guangxi.**

Emissions of nitrous oxide and methane from Antarctic tundra; role of penguin dropping deposition: **Atmospheric Environment (1994)**, 36(31), p. 4977-4982, illus. incl. 3 tables, 14 ref., October 2002.

**57005307**

**De Winter-Sorkina, Renata (Utrecht University, Institute for Marine and Atmospheric Research Utrecht, Utrecht, Netherlands).**

Impact of ozone layer depletion; I, Ozone depletion climatology: **Atmospheric Environment (1994)**, 35(9), p. 1609-1614, illus., 21 ref., 2001.

**57005308**

**De Winter-Sorkina, Renata (Utrecht University, Institute for Marine and Atmospheric Research Utrecht, Utrecht, Netherlands).**

Impact of ozone layer depletion; II, Changes in photodissociation rates and tropospheric composition: **Atmospheric Environment (1994)**, 35(9), p. 1615-1625, illus., 38 ref., 2001.

**57005317**

**Stäblein, G., editor (Univ. Bremen, Physiogeogr. Polargeogr., FB 5 Geowiss., Bremen, Federal Republic of Germany).**

Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology: **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, 61 p., illus., 1989. *Meeting*: Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany. Individual papers and abstracts are cited separately.

**57005318**

**Blümel, W. D. (Univ. Stuttgart, Geogr. Inst., Stuttgart, Federal Republic of Germany).**

Weathering and soil forming processes in western Antarctica (S. Shetlands and Antarctic Peninsula): *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 3-6, 1 table, charts, 3 ref., 1989. *Meeting*: Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005319**

**Dijkmans, J. W. A. (Univ. Utrecht, Dept. Geogr., Utrecht, Netherlands) and Koster, E. A.**

Comparative research on eolian periglacial phenomena in Alaska, Greenland and northwestern Europe: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 8-12, 23 ref., 1989. *Meeting*: Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005320**

**Grosswald, M. G. (Acad. Sci. USSR, Inst. Geogr., Moscow, Russian Federation).**

Last glaciation in Siberia; paleogeographical and geomorphological problems: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 14-16, geol. sketch map, 4 ref., 1989. *Meeting:* Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005321**

**Lehmann, R. (Univ. Heidelberg, Geogr. Inst., Heidelberg, Federal Republic of Germany).**

Geomorphological mapping of an Arctic push moraine-Thompson Glacier, Axel Heiberg Island, N.W.T., Canada: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 25-28, illus. incl. geol. sketch map, 7 ref., 1989. *Meeting:* Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005322**

**Melles, M. (Alfred-Wegener-Inst. Polar-Meeressforsch., Inst. Polar Marine Res., Bremerhaven, Federal Republic of Germany) and Fütterer, D. K.**

Glacial and glacial marine sediments in the southern Weddell Sea, Antarctica: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 32-34, geol. sketch map, 5 ref., 1989. *Meeting:* Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005323**

**Priesnitz, K. (Univ. Göttingen, Geogr. Inst., Göttingen, Federal Republic of Germany).**

Observation of fluvial activity during snowmelt and breakup in the Richardson Mountains, N Yukon and NW Territories: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 36-38, charts, 1989. *Meeting:* Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005324**

**Schlyter, P. (Lund Univ., Dept. Phys. Geogr., Lund, Sweden).**

Periglacial ventifact formation by dust or snow; some South Swedish examples: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 39-45, illus. incl. geol. sketch map, 12 ref., 1989. *Meeting:* Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005325**

**Sollid, J. L. (Univ. Oslo, Geogr. Inst., Oslo, Norway); Sorbel, L. and Etzelmüller, B.**

Geomorphological studies on Kvadehuksletta, Svalbard: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 47-50, chart, geol. sketch map, 16 ref., 1989. *Meeting:* Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005326**

**Soons, J. M. (Univ. Canterbury, Dep. Geogr., Christchurch, New Zealand); Brazier, V.; Owens, I. F. and Sturman, A. P.**

Report on the Franz Josef Glacier: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 51-53, sketch maps, 11 ref., 1989. *Meeting*: Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005327**

**van Vliet-Lanoe, B. (CNRS, Centre Geomorphol., Caen, France).**

Refreezing ice and patterned ground in Svalbard: *in* Polar geomorphology; abstracts and papers; Symposium No. 5 of the Second international conference on Geomorphology (Stäblein, G., editor), **Materialien und Manuskripte - Universität Bremen-Schwerpunkt Geographie**, 17, p. 56-58, illus., 10 ref., 1989. *Meeting*: Aug. 30-Sept. 3, 1989, Bremen, Federal Republic of Germany.

**57005328**

**Kosovtsova, T. I.**

Stadii sokrashcheniia lednikov poslednego oledeneniia v Shtubaiskikh Al'pakh [Periodization of late-glacial retreats of glaciers in Stubai Alps]: **Vestnik Sankt-Peterburskogo Universiteta. Seriya 7, Geologiya, Geografiia**, 1999(4(28)), p. 127-131 (English sum.), 2 tables, sketch maps, 9 ref., December 1999.

**57005329**

**Muralikrishna, I. V. (National Remote Sensing Agency, Hyderabad, India).**

A comparative study of spectral signatures of Antarctica: *in* Proceedings of the sixth Asian conference on Remote sensing, **Proceedings of the ... Asian Conference on Remote Sensing**, 6, p. 605-607, 5 ref., 1985. *Meeting*: Nov. 21-26, 1985, Hyderabad, India.

**57005330**

**Griffis, Timothy John. Inter-annual variability of net ecosystem CO<sub>2</sub>**

exchange at a subarctic fen: 204 p., Doctoral, 2000, McMaster University, Hamilton, ON, Canada. ISBN: 0-612-72336-4 *Available from*: Univ. Microfilms.

**57005331**

**Suzuki, Kazuyoshi (Iwate University, Faculty of Agriculture, Iwate, Japan); Ohta, Takeshi; Kojima, Atsushi and Hashimoto, Tetsu.**

Variations in snowmelt energy and energy balance characteristics with larch forest density on Mt Iwate, Japan; observations and energy balance analyses: **Hydrological Processes**, 13(17), p. 2675-2688, illus. incl. 4 tables, 20 ref., December 15, 1999.

**57005332**

**Gurtz, Joachim (Swiss Federal Institut of Technology, Department of Geography, Hydrology Section, Zurich, Switzerland); Baltensweiler, Andri and Lang, Herbert.**

Spatially distributed hydrotope-based modelling of evapotranspiration and runoff in mountainous basins: **Hydrological Processes**, 13(17), p. 2751-2768, illus. incl. 1 table, sketch map, 29 ref., December 15, 1999.

57005333

**Oztas, Taskin (Ataturk University, Department of Soil Science, Erzurum, Turkey) and Fayetorbay, Ferhan.**

Effect of freezing and thawing processes on soil aggregate stability: **Catena (Giessen)**, 52(1), p. 1-8, illus. incl. 3 tables, 18 ref., May 6, 2003.

57005334

**Gooseff, Michael N. (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO); McKnight, Diane M.; Lyons, W. Berry and Blum, Alex E.**

Weathering reactions and hyporheic exchange controls on stream water chemistry in a glacial meltwater stream in the McMurdo dry valleys: **Water Resources Research**, 38(12), 17 p., illus. incl. 7 tables, 90 ref., December 2002.

57005335

**Schiff, S. L. (University of Waterloo, Department of Earth Sciences, Waterloo, Canada); Devito, K. J.; Elgood, R. J.; McCrindle, P. M.; Spoelstra, J. and Dillon, P.**

Two adjacent forested catchments; dramatically different  $\text{NO}_3^-$  export: **Water Resources Research**, 38(12), 13 p., illus., 39 ref., December 2002.

57005336

**Kosugi, Ken'ichirou (Kyoto University, Department of Forest Science, Kyoto, Japan) and Inoue, Mitsuhiro.**

Estimation of hydraulic properties of vertically heterogeneous forest soil from transient matric pressure data: **Water Resources Research**, 38(12), 18 p., illus. incl. 2 tables, 41 ref., December 2002. Includes appendix.

57005337

**Zempolich, William G. (Mobil New Exploration and Producing Ventures, Dallas, TX); Cook, Harry E.; Zhemchuzhnikov, Viacheslav G.; Zhaimina, Valentina Ya.; Zorin, Andrey Ye.; Buvtyshkin, Vasilija M.; Kotova, Elena A.; Golub, Lyudmila Ya.; Giovannelli, Antonio; Viaggi, Maurizio; Lehmann, Patrick J.; Fretwell, Nick; Alexeiev, Dmitry V. and LaPointe, Philippe A.**

Biotic and abiotic influence on the stratigraphic architecture and diagenesis of middle to upper Paleozoic carbonates of the Bolshoi Karatau Mountains, Kazakhstan and the Southern Urals, Russia; implications for the distribution of early marine cements and reservoir quality in subsurface reservoirs: *in* Paleozoic carbonates of the Commonwealth of Independent States (CIS); subsurface reservoirs and outcrop analogs (Zempolich, William G., editor; *et al.*), **Special Publication - Society for Sedimentary Geology**, 74, p. 123-180, illus. incl. block diags., sects., strat. cols., geol. sketch maps, 107 ref., December 2002. Includes appendices.

57005338

**Fily, M. (Université Joseph Fourier, Laboratoire de Glaciologie et Géophysique de l'Environnement, Saint Martin d'Heres, France); Royer, A.; Goïta, K. and Prigent, C.**

A simple retrieval method for land surface temperature and fraction of water surface determination from satellite microwave brightness temperatures in sub-arctic areas: **Remote Sensing of Environment**, 85(3), p. 328-338, illus. incl. 2 tables, sketch map, 35 ref., May 30, 2003.

**57005339**

**Tommervik, Hans (Norwegian Institute for Nature Research, Tromso, Norway); Hogda, Kjell Arild and Solheim, Inger.**

Monitoring vegetation changes in Pasvik (Norway) and Pechenga in Kola Peninsula (Russia) using multitemporal Landsat MSS/TM data: **Remote Sensing of Environment**, 85(3), p. 370-388, illus. incl. 5 tables, sketch map, 65 ref., May 30, 2003.

**57005340**

**Hildes, Dave Henry Degast.**

Modelling subglacial erosion and englacial sediment transport of the North American ice sheets: 149 p., Doctoral, 2002, University of British Columbia, Vancouver, BC, Canada. ISBN: 0-612-73179-0 *Available from:* Univ. Microfilms.

**57005341**

**Yang, Rongqian.**

Parameterization of three-dimensional structure in vegetation canopies for modeling radiation and heat exchange over boreal forests: 125 p., Doctoral, 2003, Boston University, Boston, MA. ISBN: 0-493-86717-1 *Available from:* Univ. Microfilms.

**57005342**

**McLeod, T. Katherine.**

The ecology of *Picea glauca* (Moench) Voss at its range limits in Northwest Canada: 198 p., Doctoral, 2002, University of British Columbia, Vancouver, BC, Canada. ISBN: 0-612-73208-8 *Available from:* Univ. Microfilms.

**57005343**

**Menounos, Brian Peter.**

Climate, fine-sediment transport linkages, Coast Mountains, British Columbia: 244 p., Doctoral, 2002, University of British Columbia, Vancouver, BC, Canada. ISBN: 0-612-73210-X *Available from:* Univ. Microfilms.

**57005344**

**Gildor, Hezi (Lamont-Doherty Earth Observatory, Palisades, NY).**

When Earth's freezer door is left ajar: **Eos, Transactions, American Geophysical Union**, 84(23), p. 215, 20 ref., June 10, 2003.

**57005345**

**Hubbard, Trent D.**

Flute-forming conditions in Alberta and North Dakota; a comparison using ice sheet reconstructions and field techniques: 171 p., Doctoral, 2002, University of North Dakota, Grand Forks, ND. ISBN: 0-493-84813-4 *Available from:* Univ. Microfilms.

**57005346**

**Hopkinson, Christopher Dennis.**

Investigating spatio-temporal variability of hydrological components in the Canadian Rockies: 331 p., Doctoral, 2002, Wilfrid Laurier University, Waterloo, ON, Canada. ISBN: 0-612-72641-X *Available from:* Univ. Microfilms.

57005347

**Brook, Martin S. (University of Dundee, Department of Geography, Dundee, United Kingdom); Brock, Ben W. and Kirkbride, Martin P.**

Glacial outlet valley size-ice drainage area relationships; some considerations: **Earth Surface Processes and Landforms**, 28(6), p. 645-653, illus. incl. 6 tables, sketch map, 20 ref., June 2003.

57005348

**Smith, James (Royal Holloway University of London, Centre for Quaternary Research, Egham, United Kingdom); Vance, Derek; Kemp, Rob A.; Archer, Corey; Toms, Phillip; King, Matthew and Zárate, Marcelo.**

Isotopic constraints on the source of Argentinian loess; with implications for atmospheric circulation and the provenance of Antarctic dust during Recent glacial maxima: **Earth and Planetary Science Letters**, 212(1-2), p. 181-196, illus. incl. 2 tables, sketch map, 67 ref., July 15, 2003.

57005349

**Tzedakis, P. C. (University of Leeds, School of Geography, Leeds, United Kingdom); McManus, J. F.; Hooghiemstra, H.; Oppo, D. W. and Wilmstra, T. A.**

Comparison of changes in vegetation in Northeast Greece with records of climate variability on orbital and suborbital frequencies over the last 450 000 years: **Earth and Planetary Science Letters**, 212(1-2), p. 197-212, illus. incl. sketch map, 63 ref., July 15, 2003. *Atlantic Ocean, Foraminifera, pollen*

57005350

**Loutre, M. F. (Université Catholique de Louvain, Institut d'Astronomie et de Géophysique Georges Lemaître, Louvain-la-Neuve, Belgium).**

Clues from MIS 11 to predict the future climate; a modelling point of view: **Earth and Planetary Science Letters**, 212(1-2), p. 213-224, illus. incl. 1 table, 58 ref., July 15, 2003.

57005351

**Bickle, Mike J. (University of Cambridge, Department of Earth Sciences, Cambridge, United Kingdom); Bunbury, Judith; Chapman, Hazel J.; Harris, Nigel B. W.; Fairchild, Ian J. and Ahmad, Talat.**

Fluxes of Sr into the headwaters of the Ganges: **Geochimica et Cosmochimica Acta**, 67(14), p. 2567-2584, illus. incl. 8 tables, geol. sketch map, 37 ref., July 2003.

57005352

**Fard, Amir Mokhtari, editor (American University of Beirut, Department of Geology, Beirut, Lebanon).**

Subglacial lakes; a planetary perspective: **Global and Planetary Change**, 35(3-4), p. 169-300, illus. incl. tables, block diags., strat. cols., geol. sketch maps, February 2003. Individual papers are cited separately.

57005353

**Shoemaker, E. M. (Simon Fraser University, Applied and Computational Mathematics Program, Burnaby, BC, Canada).**

Effects of bed depressions upon floods from subglacial lakes: *in* Subglacial lakes; a planetary perspective (Fard, Amir Mokhtari, editor), **Global and Planetary Change**, 35(3-4), p. 175-184, illus. incl. 3 tables, 23 ref., February 2003.

**57005354**

**Chapman, Mary G. (U. S. Geological Survey, Flagstaff, AZ).**

Sub-ice volcanoes and ancient oceans/lakes; a Martian challenge: *in* Subglacial lakes; a planetary perspective (Fard, Amir Mokhtari, editor), **Global and Planetary Change**, 35(3-4), p. 185-198, illus. incl. block diag., sketch map, 73 ref., February 2003.

**57005355**

**Cabrol, Nathalie A. (NASA, Ames Research Center, SETI Institute, Moffett Field, CA) and Grin, Edmond A.**

Overview on the formation of paleolakes and ponds on Mars: *in* Subglacial lakes; a planetary perspective (Fard, Amir Mokhtari, editor), **Global and Planetary Change**, 35(3-4), p. 199-219, illus., 101 ref., February 2003.

**57005356**

**Dowdeswell, Julian A. (University of Cambridge, Scott Polar Research Institute, Cambridge, United Kingdom) and Siegert, Martin J.**

The physiography of modern Antarctic subglacial lakes: *in* Subglacial lakes; a planetary perspective (Fard, Amir Mokhtari, editor), **Global and Planetary Change**, 35(3-4), p. 221-236, illus. incl. sketch maps, 33 ref., February 2003.

**57005357**

**Knight, Jasper (University of Ulster, Glacial Research Group, Coleraine, United Kingdom).**

Bedform patterns, subglacial meltwater events, and late Devensian ice sheet dynamics in north-central Ireland: *in* Subglacial lakes; a planetary perspective (Fard, Amir Mokhtari, editor), **Global and Planetary Change**, 35(3-4), p. 237-253, illus. incl. sects., 1 table, geol. sketch maps, 75 ref., February 2003.

**57005358**

**Bjornsson, Helgi (University of Iceland, Science Institute, Reykjavik, Iceland).**

Subglacial lakes and jokulhlaups in Iceland: *in* Subglacial lakes; a planetary perspective (Fard, Amir Mokhtari, editor), **Global and Planetary Change**, 35(3-4), p. 255-271, illus. incl. 3 tables, geol. sketch map, 51 ref., February 2003.

**57005359**

**Fard, Amir Mokhtari (American University of Beirut, Department of Geology, Beirut, Lebanon).**

Large dead-ice depressions in flat-topped eskers; evidence of a Preboreal jokulhlaup in the Stockholm area, Sweden: *in* Subglacial lakes; a planetary perspective (Fard, Amir Mokhtari, editor), **Global and Planetary Change**, 35(3-4), p. 273-295, illus. incl. geol. sketch maps, 69 ref., February 2003.

**57005360**

**Kane, Douglas L. (University of Alaska at Fairbanks, Water and Environmental Research Center, Fairbanks, AK) and Hinzman, Larry D., editors.**

AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes: **Permafrost and Periglacial Processes**, 14(2), p. 87-198, illus. incl. tables, sketch maps, June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA. Individual papers are cited separately.

**57005361**

**Lloyd, Andrea H. (Middlebury College, Department of Biology, Middlebury, VT); Yoshikawa, Kenji; Fastie, Christopher L.; Hinzman, Larry D. and Fraver, Matthew.**

Effects of permafrost degradation on woody vegetation at Arctic treeline on the Seward Peninsula, Alaska: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 93-101, illus. incl. 1 table, 27 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA. NSF Grants OPP-9731717 and OPP-9818066.

**57005362**

**Walker, D. A. (University of Alaska-Fairbanks, Institute of Arctic Biology, Fairbanks, AK); Jia, G. J.; Epstein, H. E.; Reynolds, M. K.; Chapin, F. S., III; Copass, C.; Hinzman, Larry D.; Knudson, J. A.; Maier, H. A.; Michaelson, G. J.; Nelson, F.; Ping, C. L.; Romanovsky, V. E. and Shiklomanov, N.**

Vegetation-soil-thaw-depth relationships along a low-Arctic bioclimate gradient, Alaska; synthesis of information from the ATLAS studies: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 103-123, illus. incl. 2 tables, sketch maps, 73 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA. NSF Grants OPP-0120736 and OPP-9908829.

**57005363**

**Sazonova, T. S. (University of Alaska-Fairbanks, Geophysical Institute, Fairbanks, AK) and Romanovsky, V. E.**

A model for regional-scale estimation of temporal and spatial variability of active layer thickness and mean annual ground temperatures: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 125-139, illus. incl. 6 tables, sketch map, 35 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA. NSF Grants OPP-9732126, OPP-9870635 and OPP-9721347.

**57005364**

**Ling, Feng (University of Colorado, National Snow and Ice Data Center, Boulder, CO) and Zhang, Tingjun.**

Impact of the timing and duration of seasonal snow cover on the active layer and permafrost in the Alaskan Arctic: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 141-150, illus. incl. 2 tables, 32 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA. NSF Grants OPP-0229766, OPP-9907541, and OPP-0002239.

**57005365**

**Yoshikawa, Kenji (University of Alaska-Fairbanks, Water and Environmental Research Center, Fairbanks, AK) and Hinzman, Larry D.**

Shrinking thermokarst ponds and groundwater dynamics in discontinuous permafrost near Council, Alaska: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 151-160, illus. incl. 1 plate, 27 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA.

**57005366**

**Carey, Sean K. (University of Saskatchewan, Department of Geography, Saskatoon, SK, Canada).**

Dissolved organic carbon fluxes in a discontinuous permafrost subarctic alpine catchment: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 161-171, illus. incl. 5 tables, sketch map, 35 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA.

**57005367**

**Wagner, D. (Alfred Wegener Institute for Polar and Marine Research, Potsdam, Federal Republic of Germany); Kobabe, S.; Pfeiffer, E. M. and Hubberten, H. W.**

Microbial controls on methane fluxes from a polygonal tundra of the Lena Delta, Siberia: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 173-185, illus. incl. 1 table, sketch map, 58 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA.

**57005368**

**Gavrilov, A. V. (Moscow State University, Faculty of Geology, Moscow, Russian Federation); Romanovskii, N. N.; Romanovsky, V. E.; Hubberten, H. W. and Tumskey, V. E.**

Reconstruction of ice complex remnants on the eastern Siberian Arctic shelf: *in* AGU 2002 fall meeting; interactions of permafrost with climatic, hydrologic and ecosystem processes (Kane, Douglas L., editor; *et al.*), **Permafrost and Periglacial Processes**, 14(2), p. 187-198, illus. incl. 1 table, sketch map, 45 ref., June 2003. *Meeting:* American Geophysical Union 2002 fall meeting, Dec. 6-10, 2002, San Francisco, CA. NSF Grant OPP-9986826.

**57005369**

**Ingersoll, George P. (U. S. Geological Survey, Denver, CO); Mast, M. Alisa; Clow, David W.; Nanus, Leora; Campbell, Donald H. and Handran, Heather.**

Rocky Mountain snowpack chemistry at selected sites for 2001: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0048, 11 p., illus. incl. 1 table, sketch maps, 28 ref., 2003. *Available from:* U. S. Geol. Surv., Denver, CO, United States. (Prepared in cooperation with the National Park Service; U.S. Department of Agriculture, Forest Service).

**57005370**

**Flerchinger, Gerald N. (U. S. Department of Agriculture, Agricultural Research Service, Northwest Watershed Research Center, Boise, ID); Sauer, T. J. and Aiken, R. A.**

Effects of crop residue cover and architecture on heat and water transfer at the soil surface: *in* Quantifying agricultural management effects on soil properties and processes (Ahuja, Lajpat R., editor), **Geoderma**, 116(1-2), p. 217-233, illus. incl. 8 tables, 29 ref., September 2003.

**57005429**

**Hughen, Konrad (Harvard University, Department of Earth and Planetary Sciences, Cambridge, MA); Overpeck, J.; Hardy, D.; Bradley, R.; Case, R.; Douglas, M.; Finney, B.; Gajewski, K.; Jacoby, G.; Jennings, A.; Lamoureux, S.; Lasca, A.; MacDonald, G.; Moore, J.; Retelle, M.; Smith, S.; Wolfe, A. and Zielinski, G.**

Past environmental change in the Arctic; a PALE contribution to Arctic system science: **Witness the Arctic**, 6(1), p. 1-2, illus., 1 ref., 1998.

**57005430**

**Morris, T. F. (Ontario Geological Survey, Sedimentary Geosciences Section, Canada).**

Quaternary geology mapping and overburden sampling, Woman Falls-Wakusimi River area, northeastern Ontario: *in* Summary of field work and other activities 1997 (Ayer, J. A., editor; *et al.*), **Ontario Geological Survey Miscellaneous Paper**, Rep. No. 168, p. 113-115, sketch map, 14 ref., 1997.

**57005431**

**Zizka, Michael Andrew.**

The surficial geology of the Columbia Quadrangle: 81 p., illus. incl. 2 tables, 1 plate, 27 ref., Master's, 1978, University of Connecticut, Storrs, CT.

**57005432**

**Spikes, Vandy Blue.**

Laser altimetry, mass balance, and meteorites; a two part study of ice streams and blue ice: 86 p., illus. incl. 6 tables, 41 ref., Master's, 2000, Ohio State University, Columbus, OH.

**57005433**

**Pakhomov, E. A. (Rhodes University, Department of Zoology and Entomology, Grahamstown, South Africa); Hunt, B. P. V. and Gurney, L. J.**

The fifth cruise of the Marion Island Oceanographic Survey (MIOS-V), April to May 2000: **South African Journal of Science**, 96(11-12), p. 541-543, illus. incl. sketch maps, 7 ref., December 2000.

**57005434**

**Ansorge, I. J. (University of Cape Town, Department of Oceanography, Rondebosch, South Africa) and Lutjeharms, J. R. E.**

Twenty-five years of physical oceanographic research at the Prince Edwards Islands: **South African Journal of Science**, 96(11-12), p. 557-565, illus. incl. sketch map, 76 ref., December 2000.

**57005435**

**Mikalsen, Gaute (University of Bergen, Department of Geology, Bergen, Norway); Sejrup, Hans Petter and Aarseth, Inge.**

Late-Holocene changes in ocean circulation and climate; foraminiferal and isotopic evidence from Sulafjord, western Norway: **The Holocene**, 11(4), p. 437-446, illus. incl. 1 table, sketch map, 76 ref., 2001.

**57005436**

**Shemesh, Aldo (Weizmann Institute of Science, Department of Environmental Sciences and Energy Research, Rehovot, Israel); Rosqvist, Gunhild; Rietti-Shati, Miri; Rubensdotter, Lena; Bigler, Christian; Yam, Ruth and Karlen, Wibjorn.**

Holocene climatic change in Swedish Lapland inferred from an oxygen-isotope record of lacustrine biogenic silica: **The Holocene**, 11(4), p. 447-454, illus. incl. 3 tables, sketch map, 50 ref., 2001.

**57005437**

**Taylor, Fiona (Antarctic Co-operative Research Centre and Institute of Antarctic and Southern Ocean Studies, Hobart, Tasmania, Australia) and McMinn, Andrew.**

Evidence from diatoms for Holocene climate fluctuation along the East Antarctic margin: **The Holocene**, 11(4), p. 455-466, illus. incl. 4 tables, sketch map, 42 ref., 2001.

57005438

**Carcaillet, Christopher (Université de Montréal, Département de Géographie, Montréal, PQ, Canada); Bouvier, Martine; Fréchette, Bianca; Larouche, Alayn C. and Richard, Pierre J. H.**

Comparison of pollen-slide and sieving methods in lacustrine charcoal analyses for local and regional fire history: **The Holocene**, 11(4), p. 467-476, illus. incl. 6 tables, 62 ref., 2001.

57005439

**Hiller, A. (UFZ Centre for Environmental Research Leipzig-Halle, Department of Hydrogeology, Halle, Federal Republic of Germany); Boettger, T. and Kremenetski, C.**

Mediaeval climatic warming recorded by radiocarbon dated alpine tree-line shift on the Kola Peninsula, Russia: **The Holocene**, 11(4), p. 491-497, illus. incl. 1 table, sketch map, 34 ref., 2001.

57005440

**Gervais, Bruce R. (University of California at Los Angeles, Departments of Geography and Organismic Biology, Los Angeles, CA) and MacDonald, Glen M.**

Tree-ring and summer-temperature response to volcanic aerosol forcing at the northern tree-line, Kola Peninsula, Russia: **The Holocene**, 11(4), p. 499-505, illus. incl. 2 tables, sketch map, 32 ref., 2001.

57005441

**Kennett, James P. (University of California at Santa Barbara, Department of Geological Sciences and Marine Science Institute, Santa Barbara, CA) and Peterson, Larry C.**

Rapid climate change; ocean responses to Earth system instability in the late Quaternary: *in* Achievements and opportunities of scientific ocean drilling; the legacy of the Ocean Drilling Program (Peterson, Larry C., editor; *et al.*), **JOIDES Journal**, 28(1), p. 5-9, illus., 15 ref., 2002.

57005442

**Zahn, Rainer (Universitat de Barcelona, Departament de Geosciences, Barcelona, Spain).**

Milankovitch and climate; the orbital code of climate change: *in* Achievements and opportunities of scientific ocean drilling; the legacy of the Ocean Drilling Program (Peterson, Larry C., editor; *et al.*), **JOIDES Journal**, 28(1), p. 17-22, illus., 21 ref., 2002.

57005443

**Pronk, Toon (New Brunswick Department of Natural Resources and Energy, Geological Surveys Branch, Fredericton, NB, Canada) and Seaman, Allen A.**

Glacial geology traverse from Fredericton to the Fundy Coast: *in* Guidebook to field trips in New Brunswick and western Maine (Pickerill, Ron K., editor; *et al.*), **Annual Meeting - New England Intercollegiate Geological Conference, Guidebook**, 93, p. B3.1-B3.21, illus. incl. geol. sketch maps, 50 ref., 2001. *Meeting*: 93rd annual meeting; New England intercollegiate geological conference, Sept. 21-23, 2001, Fredericton, NB, Canada.

57005444

**McMartin, I.; Little, E. C.; Ferbey, T.; Ozyer, C. A. and Utting, D. J.**

Drift prospecting across the Committee Bay greenstone belt, central mainland Nunavut:

**Open-File Report - Geological Survey of Canada**, Rep. No. 4277, 1 disc, illus. incl. tables, sketch maps, 45 ref., 2002. compact disc.

**57005445**

**Nuttall, Mark (University of Aberdeen, Department of Sociology and Anthropology/Northern Studies Centre, Aberdeen, United Kingdom).**

Global interdependence and Arctic voices; capacity-building for sustainable livelihoods: *in* The Arctic on thinner ice; First international symposium of the Nordic Arctic Research Programme (Saarnisto, Matti, chairperson), **Polar Record**, 38(206), p. 194-202, 20 ref., July 2002. *Meeting:* May 10-11, 2001, Oulu, Finland.

**57005446**

**Forland, E. J. (Norwegian Meteorological Institute, Oslo, Norway); Hanssen-Bauer, I.; Jonsson, T.; Kern-Hansen, C.; Nordli, P. O.; Tveito, O. E. and Laursen, E. Vaarby.**

Twentieth-century variations in temperature and precipitation in the Nordic Arctic: *in* The Arctic on thinner ice; First international symposium of the Nordic Arctic Research Programme (Saarnisto, Matti, chairperson), **Polar Record**, 38(206), p. 203-210, illus. incl. 3 tables, sketch map, 29 ref., July 2002. *Meeting:* May 10-11, 2001, Oulu, Finland.

**57005447**

**Taipale, Tiia (University of Oulu, Department of Biology, Oulu, Finland) and Huttunen, Satu.**

Moss flavonoids and their ultrastructural localization under enhanced UV-B radiation: *in* The Arctic on thinner ice; First international symposium of the Nordic Arctic Research Programme (Saarnisto, Matti, chairperson), **Polar Record**, 38(206), p. 211-218, illus., 30 ref., July 2002. *Meeting:* May 10-11, 2001, Oulu, Finland.

**57005448**

**Philipp, Marianne (University of Copenhagen, Botanical Institute, Copenhagen, Denmark).**

Genetic variation in *Armeria maritima* in Iceland: *in* The Arctic on thinner ice; First international symposium of the Nordic Arctic Research Programme (Saarnisto, Matti, chairperson), **Polar Record**, 38(206), p. 219-224, illus. incl. 4 tables, sketch map, 25 ref., July 2002. *Meeting:* May 10-11, 2001, Oulu, Finland.

**57005449**

**Hanssen-Bauer, I. (Norwegian Meteorological Institute, Oslo, Norway).**

Temperature and precipitation in Svalbard 1912-2050; measurements and scenarios: *in* The Arctic on thinner ice; First international symposium of the Nordic Arctic Research Programme (Saarnisto, Matti, chairperson), **Polar Record**, 38(206), p. 225-232, illus. incl. 3 tables, sketch map, 28 ref., July 2002. *Meeting:* May 10-11, 2001, Oulu, Finland.

**57005450**

**Turunen, M. (University of Lapland, Arctic Centre, Rovaniemi, Finland); Sutinen, M. L.; Derome, K.; Norokorpi, Y. and Lakkala, K.**

Effects of solar UV radiation on birch and pine seedlings in the sub-Arctic: *in* The Arctic on thinner ice; First international symposium of the Nordic Arctic Research Programme (Saarnisto, Matti, chairperson), **Polar Record**, 38(206), p. 233-240, illus. incl. 2 tables, 49 ref., July 2002. *Meeting:* May 10-11, 2001, Oulu, Finland.

**57005451**

**Ruikka, Mattiina (University of Oulu, Department of Geology, Oulu, Finland) and Strand, Kari.**

Clay minerals in response to the Pleistocene climate change on the Yermak Plateau, Arctic Ocean (ODP, Site 911): *in* The Arctic on thinner ice; First international symposium of the Nordic Arctic Research Programme (Saarnisto, Matti, chairperson), **Polar Record**, 38(206), p. 241-248, illus. incl. sketch map, 28 ref., July 2002. *Meeting*: May 10-11, 2001, Oulu, Finland.

**57005452**

**Vorren, Tore O. (University of Tromso, Tromso, Norway) and Goldman, Helle V., editors.**

Proceedings of the Changes in climate and environment at high latitudes conference: **Polar Research**, 21(2), p. 209-330, illus. incl. strat. cols., tables, geol. sketch maps, 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway. Individual papers are cited separately.

**57005453**

**Andrews, John T. (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO); Hardardottir, Jorunn; Geirsdottir, Aslaug and Helgadottir, Gudrun.**

Late Quaternary ice extent and glacial history from the Djupall Trough, off Vestfiridir Peninsula, North-west Iceland; a stacked 36 cal. Ky environmental record: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 211-226, illus. incl. 1 table, sketch map, 70 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005454**

**Olsen, Lars (Geological Survey of Norway, Trondheim, Norway); Sveian, Harald; van der Borg, Klaas; Bergstrom, Bjorn and Broekmans, Maarten.**

Rapid and rhythmic ice sheet fluctuations in western Scandinavia 15-40 Kya; a review: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 235-242, illus. incl. sketch maps, 12 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway. *Weichselian*

**57005455**

**Wilson, Lindsay J. (University of St. Andrews, School of Geography and Geosciences, Saint Andrews, United Kingdom); Austin, William E. N. and Jansen, Eystein.**

The last British ice sheet; growth, maximum extent and deglaciation: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 243-250, illus. incl. sketch maps, 36 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005456**

**Austin, William E. N. (University of St. Andrews, School of Geography and Geosciences, Saint Andrews, United Kingdom) and Inall, Mark E.**

Deep-water renewal in a Scottish fjord; temperature, salinity and oxygen isotopes: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 251-258, illus. incl. strat. col., sketch map, 17 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005457**

**Forwick, Matthias (University of Tromso, Department of Geology, Tromso, Norway) and Vorren, Tore O.**

Deglaciation history and post-glacial mass movements in Balsfjord, Northern Norway: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 259-266, illus. incl. strat. col., geol. sketch map, 29 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005458**

**Husum, Katrine (University of Tromso, Department of Geology, Tromso, Norway) and Hald, Morten.**

Early Holocene cooling events in Malangenfjord and the adjoining shelf, North-east Norwegian Sea: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 267-274, illus. incl. strat. col., 1 table, sketch map, 40 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005459**

**Klitgaard-Kristensen, Dorthe (University of Bergen, Department of Geology, Bergen, Norway); Sejrup, Hans Petter and Haflidason, Haflidi.**

Distribution of Recent calcareous benthic Foraminifera in the northern North Sea and relation to the environment: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 275-282, illus. incl. 3 tables, sketch maps, 32 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005460**

**Larsen, Gudrun (University of Iceland, Science Institute, Reykjavik, Iceland); Eiriksson, Jon; Knudsen, Karen Luise and Heinemeier, Jan.**

Correlation of late Holocene terrestrial and marine tephra markers, North Iceland; implications for reservoir age changes: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 283-290, illus. incl. strat. col., 2 tables, sketch map, 27 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005461**

**Geirsdottir, Aslaug (University of Iceland, Department of Geosciences, Reykjavik, Iceland); Andrews, John T.; Olafsdottir, Saedis; Helgadottir, Gudrun and Hardardottir, Jorunn.**

A 36 Ky record of iceberg rafting and sedimentation from North-west Iceland: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 291-298, illus. incl. 1 table, sketch map, 30 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005462**

**Hass, H. Christian (Alfred Wegener Institute for Polar and Marine Research, List/Sylt, Federal Republic of Germany).**

A method to reduce the influence of ice-rafted debris on a grain size record from northern Fram Strait, Arctic Ocean: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 299-306, illus. incl. sketch map, 42 ref., 2002. *Meeting*: Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005463**

**Koc, Nalan (Norwegian Polar Institute, Polar Environmental Centre, Tromso, Norway); Klitgaard-Kristensen, Dorthe; Hasle, Kristine; Forsberg, Carl Fredrik and Solheim, Anders.**

Late glacial palaeoceanography of Hinlopen Strait, northern Svalbard: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 307-314, illus. incl. 1 table, sketch map, 45 ref., 2002. *Meeting:* Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005464**

**Stein, Ruediger (Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Federal Republic of Germany); Niessen, Frank; Dittmers, Klaus; Levitan, Michael; Schoester, Frank; Simstich, Johannes; Steinke, Tatjana and Stepanets, Oleg V.**

Siberian river run-off and late Quaternary glaciation in the southern Kara Sea, Arctic Ocean; preliminary results: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 315-322, illus. incl. sect., 1 table, sketch map, 21 ref., 2002. *Meeting:* Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005465**

**Syvitski, James P. M. (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO).**

Sediment discharge variability in Arctic rivers; implications for a warmer future: *in* Proceedings of the Changes in climate and environment at high latitudes conference (Vorren, Tore O., editor; *et al.*), **Polar Research**, 21(2), p. 323-330, illus. incl. 1 table, 52 ref., 2002. *Meeting:* Oct. 31-Nov. 2, 2001, Tromso, Norway.

**57005466**

**Sharp, Warren D. (Berkeley Geochronology Center, Berkeley, CA); Ludwig, Kenneth R.; Chadwick, Oliver A.; Amundson, Ronald and Glaser, Laura L.**

Dating fluvial terraces by <sup>230</sup>Th/U on pedogenic carbonate, Wind River Basin, Wyoming: **Quaternary Research (New York)**, 59(2), p. 139-150, illus. incl. 1 table, sketch map, 42 ref., March 2003.

**57005467**

**Vaks, Anton (Geological Survey of Israel, Jerusalem, Israel); Bar-Matthews, Miryam; Ayalon, Avner; Schilman, Bettina; Gilmour, Mabs; Hawkesworth, Chris J.; Frumkin, Amos; Kaufman, Aaron and Matthews, Alan.**

Paleoclimate reconstruction based on the timing of speleothem growth and oxygen and carbon isotope composition in a cave located in the rain shadow in Israel: **Quaternary Research (New York)**, 59(2), p. 182-193, illus. incl. 2 tables, sketch map, 40 ref., March 2003.

**57005468**

**Mangerud, Jan (University of Bergen, Department of Earth Science, Bergen, Norway); Lovlie, Reidar; Gulliksen, Steinar; Hufthammer, Anne-Karin; Larsen, Eiliv and Valen, Vidar.**

Paleomagnetic correlations between Scandinavian ice-sheet fluctuations and Greenland Dansgaard-Oeschger events, 45,000-25,000 yr B.P.: **Quaternary Research (New York)**, 59(2), p. 213-222, illus. incl. sects., sketch maps, 42 ref., March 2003.

**57005469**

**Müller, Ulrich C. (Universität Tübingen, Geographisches Institut, Tübingen, Federal Republic of Germany); Pross, Jorg and Bibus, Erhard.**

Vegetation response to rapid climate change in Central Europe during the past 140,000 yr based on evidence from the Füramoos pollen record: **Quaternary Research (New York)**, 59(2), p. 235-245, illus. incl. charts, sketch map, 50 ref., March 2003.

**57005470**

**Putkonen, Jaakko (University of Washington, Quaternary Research Center and Department of Earth and Space Sciences, Seattle, WA) and Swanson, Terry.**

Accuracy of cosmogenic ages for moraines: **Quaternary Research (New York)**, 59(2), p. 255-261, illus. incl. 2 tables, 41 ref., March 2003.

**57005471**

**Fisher, Timothy G. (Indiana University Northwest, Department of Geosciences, Gary, IN).**

Chronology of glacial Lake Agassiz meltwater routed to the Gulf of Mexico: **Quaternary Research (New York)**, 59(2), p. 271-276, illus. incl. 1 table, sketch map, 27 ref., March 2003.

**57005472**

**Murphy, Alison M.**

A glaciochemical record from the Devon ice cap and late-Holocene reconstruction of past sea-ice extent in the North Water polynya, eastern Canadian Arctic: 217 p., illus. incl. 8 tables, 79 ref., Master's, December 2000, University of New Hampshire, Durham, NH.

**57005473**

**Kryc, Kelly A.**

The development and application of marine sedimentary chemical proxies of climate change in the Southern and Equatorial Pacific oceans: 134 p., Doctoral, 2003, Boston University, Boston, MA. ISBN: 0-493-86701-5 *Available from:* Univ. Microfilms.

**57005474**

**Migon, Piotr (Uniwersytet Wroclawski, Wroclaw, Poland); Maciejak, Krzysztof and Zygmunt, Malgorzata.**

Peryglacialna rzeźba wzgórz bazaltowych Podgórze Kaczawskiego (Sudety Zachodnie) [Periglacial morphology of the basalt hills of the Kaczawa Upland, western Sudeten Mountains]: **Przegląd Geograficzny**, 74(4), p. 491-508 (English sum.), illus., 42 ref., 2002.

**57005475**

**Kanfoush, Sharon L.**

Millennial-scale variability in late Pleistocene ice-rafting to the South Atlantic Ocean: 140 p., Doctoral, 2002, University of Florida, Gainesville, FL. ISBN: 0-493-85044-9 *Available from:* Univ. Microfilms.

**57005476**

**Solomina, Olga (Russian Academy of Sciences, Institute of Geography, Moscow, Russian Federation) and Calkin, Parker E.**

Lichenometry as applied to moraines in Alaska, U.S.A., and Kamchatka, Russia: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 129-143, illus. incl. 4 tables, sketch maps, 60 ref., May 2003. NSF Grant ATM-9905493.

**57005477**

**Bowman, William D. (University of Colorado, Mountain Research Station, Boulder, CO); Bahn, Leslie and Damm, Mary.**

Alpine landscape variation in foliar nitrogen and phosphorus concentrations and the relation to soil nitrogen and phosphorus availability: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 144-149, illus., 47 ref., May 2003.

**57005478**

**Tinner, Willy (Universität Bern, Institut für Pflanzenwissenschaften, Bern, Switzerland) and Theurillat, Jean-Paul.**

Uppermost limit, extent, and fluctuations of the timberline and treeline ecocline in the Swiss Central Alps during the past 11,500 years: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 158-169, illus. incl. 1 table, sketch map, 68 ref., May 2003.

**57005479**

**Yamaguchi, Satoru (Hokkaido University, Institute of Low Temperature Science, Sapporo, Japan); Naruse, Renji; Matsumoto, Takane and Ohno, Hiroshi.**

Multiday variations in flow velocity at Glaciar Soler, northern Patagonia, Chile: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 170-174, illus. incl. sketch map, 32 ref., May 2003.

**57005480**

**Ingolfsson, Olafur (University of Iceland, Department of Geology and Geography, Reykjavik, Iceland); Hjort, Christian and Humlum, Ole.**

Glacial and climate history of the Antarctic Peninsula since the last glacial maximum: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 175-186, illus. incl. sketch maps, 130 ref., May 2003.

**57005481**

**Bhattacharyya, Amalava (Birbal Sahni Institute of Palaeobotany, Lucknow, India) and Chaudhary, Vandana.**

Late-summer temperature reconstruction of the eastern Himalayan region based on tree-ring data of *Abies densa*: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 196-202, illus. incl. 2 tables, sketch map, 38 ref., May 2003.

**57005482**

**McCarthy, Daniel P. (Brock University, Department of Earth Sciences, St. Catharines, ON, Canada).**

Estimating lichenometric ages by direct and indirect measurement of radial growth; a case study of *Rhizocarpon* agg. at the Illecillewaet Glacier, British Columbia: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 203-213, illus. incl. 5 tables, sketch maps, 30 ref., May 2003.

**57005483**

**Holderegger, Rolf (WSL Swiss Federal Research Institute, Birmensdorf, Switzerland); Stehlik, Ivana; Smith, Ronald I. Lewis and Abbott, Richard J.**

Populations of Antarctic hairgrass (*Deschampsia antarctica*) show low genetic diversity: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 214-217, illus. incl. sketch map, 24 ref., May 2003.

**57005484**

**Andrews, John T. (University of Colorado, Institute of Arctic and Alpine Research, Boulder, CO) and Helgadottir, Gudrun.**

Late Quaternary ice cap extent and deglaciation, Hunafloaal, Northwest Iceland; evidence from marine cores: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 218-232, illus. incl. sects., 3 tables, sketch maps, 98 ref., May 2003. NSF Grants ATM-9531397, OPP-972510, and OCE-9809001.

**57005485**

**Arocena, J. M. (University of Northern British Columbia, Prince George, BC, Canada) and Hall, K.**

Calcium phosphate coatings on the Yalour Islands, Antarctica; formation and geomorphic implications: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 233-241, illus. incl. 2 tables, sketch maps, 42 ref., May 2003.

**57005486**

**Halloy, Stephan R. P. (New Zealand Institute for Crop & Food Research, Mosgiel, New Zealand) and Mark, Alan F.**

Climate-change effects on alpine plant biodiversity; a New Zealand perspective on quantifying the threat: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 248-254, illus. incl. 2 tables, sketch map, 59 ref., May 2003.

**57005487**

**Diolaiuti, Guglielmina (University of Milan, Department of Earth Sciences, Milan, Italy); D'Agata, Carlo and Smiraglia, Claudio.**

Belvedere Glacier, Monte Rosa, Italian Alps; tongue thickness and volume variations in the second half of the 20th Century: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 255-263, illus. incl. sketch maps, 37 ref., May 2003.

**57005488**

**Hagen, Jon Ove (University of Oslo, Department of Physical Geography, Oslo, Norway); Melvold, Kjetil; Pinglot, Francis and Dowdeswell, Julian A.**

On the net mass balance of the glaciers and ice caps in Svalbard, Norwegian Arctic: **Arctic, Antarctic, and Alpine Research**, 35(2), p. 264-270, illus. incl. 1 table, sketch map, 35 ref., May 2003.

**57005489**

**Diekmann, Bernhard (Alfred Wegener Institute for Polar and Marine Research, Potsdam, Federal Republic of Germany); Fälker, Mareike and Kuhn, Gerhard.**

Environmental history of the south-eastern South Atlantic since the middle Miocene; evidence from the sedimentological records of ODP Sites 1088 and 1092: **Sedimentology**, 50(3), p. 511-529, illus. incl. charts, sketch map, 95 ref., June 2003. *Foraminifera, nannofossils*

**57005490**

**Whitehead, Jason M. (University of Tasmania, Antarctic Cooperation Research Centre and Institute of Antarctic and Southern Ocean Studies, Hobart, Tasmania, Australia); Harwood, David M. and McMinn, Andrew.**

Ice-distal upper Miocene marine strata from inland Antarctica: **Sedimentology**, 50(3), p. 531-552, illus. incl. strat. cols., 2 tables, sketch maps, 78 ref., June 2003.

**57005491**

**Harris, Peter T. (Antarctic CRC, Hobart, Tasmania, Australia); Brancolini, Giuliano; Bindoff, Nathan L. and De Santis, Laura, editors.**

Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica: **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1335-1594, illus. incl. tables, sects., sketch maps, May 2003. Individual papers are cited separately.

**57005492**

**Porter-Smith, R. (Geoscience Australia, Hobart, Tasmania, Australia).**

Bathymetry of the George Vth Land shelf and slope: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1337-1341, illus. incl. sketch map, 12 ref., May 2003.

**57005493**

**Beaman, Robin J. (University of Tasmania, School of Geography and Environmental Studies, Hobart, Tasmania, Australia) and Harris, Peter T.**

Seafloor morphology and acoustic facies of the George V Land shelf: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1343-1355, illus. incl. sketch maps, 31 ref., May 2003.

**57005494**

**Wu, Xingren (Antarctic Cooperative Research Centre, Hobart, Tasmania, Australia); Budd, W. F. and Allison, Ian.**

Modelling the impacts of persistent Antarctic polynyas with an atmosphere-sea-ice general circulation model: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1357-1372, illus. incl. 10 tables, sketch maps, 43 ref., May 2003.

**57005495**

**Williams, G. D. (University of Tasmania, Institute of Antarctic and Southern Ocean Studies, Hobart, Tasmania, Australia) and Bindoff, Nathan L.**

Wintertime oceanography of the Adélie Depression: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1373-1392, illus. incl. 3 tables, sketch maps, 34 ref., May 2003.

**57005496**

**Sambrotto, Raymond N. (Lamont-Doherty Earth Observatory, Palisades, NY); Matsuda, Akiko; Vaillancourt, Robert D.; Brown, Matthew; Langdon, Christopher; Jacobs, Stanley S. and Measures, Christopher.**

Summer plankton production and nutrient consumption patterns in the Mertz Glacier region of East Antarctica: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1393-1414, illus. incl. 2 tables, sketch maps, 71 ref., May 2003. NSF Grants OPP-01-05104 and OPP-99-09374.

**57005497**

**Vaillancourt, Robert D. (Lamont-Doherty Earth Observatory, Marine Biology Building, Palisades, NY); Sambrotto, Raymond N.; Green, Sara and Matsuda, Akiko.**

Phytoplankton biomass and photosynthetic competency in the summertime Mertz Glacier region of East Antarctica: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1415-1440, illus. incl. 2 tables, sketch maps, 49 ref., May 2003. NSF Grants OPP-01-05104 and OPP-99-09374.

**57005498**

**Presti, Massimo (Dipartimento di Geofisica della Litosfera, Istituto Nazionale di Oceanografia e Geofisica Sperimentale (OGS), Trieste, Italy); De Santis, Laura; Busetti, Martina and Harris, Peter T.**

Late Pleistocene and Holocene sedimentation on the George V continental shelf, East Antarctica: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1441-1461, illus. incl. 1 table, sketch map, 42 ref., May 2003.

**57005499**

**Harris, Peter T. (University of Tasmania, Antarctic CRC and Geoscience Australia, Hobart, Tasmania, Australia) and Beaman, Robin J.**

Processes controlling the formation of the Mertz Drift, George Vth continental shelf, East Antarctica; evidence from 3.5 kHz sub-bottom profiling and sediment cores: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1463-1480, illus. incl. sects., 2 tables, sketch map, 32 ref., May 2003.

**57005500**

**Escutia, C. (Universidad de Granada, Instituto Andaluz de Ciencias de la Tierra CSIC, Granada, Spain); Warnke, D.; Acton, G. D.; Barcena, A.; Burckle, L.; Canals, M. and Frazee, C. S.**

Sediment distribution and sedimentary processes across the Antarctic Wilkes Land margin during the Quaternary: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1481-1508, illus. incl. sects., 3 tables, sketch maps, 68 ref., May 2003. NSF Grant OPP-98-15085.

**57005501**

**Donda, Federica (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Sgonico, Italy); Brancolini, Giuliano; De Santis, Laura and Trincardi, Fabio.**

Seismic facies and sedimentary processes on the continental rise off Wilkes Land (East Antarctica); evidence of bottom current activity: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1509-1527, illus. incl. sects., sketch map, 51 ref., May 2003.

57005502

**Busetti, Marina (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste, Italy); Caburlotto, A.; Armand, L.; Damiani, D.; Giorgetti, G.; Lucchi, R. G.; Quilty, P. G. and Villa, G.**

Plio-Quaternary sedimentation on the Wilkes Land continental rise; preliminary results: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1529-1562, illus. incl. sects., 10 tables, sketch maps, 54 ref., May 2003. *Foraminifera, diatoms, nannofossils*

57005503

**De Santis, Laura (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Trieste, Italy); Brancolini, Giuliano and Donda, Federica.**

Seismo-stratigraphic analysis of the Wilkes Land continental margin (East Antarctica); influence of glacially driven processes on the Cenozoic deposition: *in* Recent investigations of the Mertz Polynya and George Vth Land continental margin, East Antarctica (Harris, Peter T., editor; *et al.*), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(8-9), p. 1563-1594, illus. incl. sects., 4 tables, sketch maps, 49 ref., May 2003.

57005504

**Smith, K. L., Jr., editor (Scripps Institution of Oceanography, Marine Biology Research Division, La Jolla, CA).**

Erupt; ecosystem studies at Deception Island, Antarctica: **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1595-1888, illus. incl. tables, sketch maps, June 2003. Individual papers are cited separately.

57005505

**Glatts, R. C. (Scripps Institution of Oceanography, Marine Biology Research Division, La Jolla, CA); Uhlman, A. H.; Smith, K. L., Jr. and Baldwin, R. J.**

Long time-series monitoring of the ecosystem at Deception Island, Antarctica; description of instrumentation: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1631-1648, illus., 18 ref., June 2003. NSF Grant OPP-97-27077.

57005506

**Smith, K. L., Jr. (Scripps Institution of Oceanography, Marine Biology Research Division, La Jolla, CA); Baldwin, R. J.; Glatts, R. C.; Chereskin, T. K.; Ruhl, Henry A. and Lagun, V.**

Weather, ice, and snow conditions at Deception Island, Antarctica; long time-series photographic monitoring: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1649-1664, illus. incl. 2 tables, sketch map, 25 ref., June 2003. NSF Grant OPP-97-27077 and OPP-98-16226.

57005507

**Lenn, Y. D. (Scripps Institution of Oceanography, San Diego, CA); Chereskin, T. K. and Glatts, R. C.**

Seasonal to tidal variability in currents, stratification and acoustic backscatter in an Antarctic ecosystem at Deception Island: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1665-1683, illus. incl. sketch maps, 35 ref., June 2003. NSF Grant OPP-98-16226.

**57005508**

**Sturz, Anne A. (University of San Diego, Marine and Environmental Studies Program, San Diego, CA); Gray, Sarah C.; Dykes, Kathleen; King, Andrew L. and Radtke, Jennifer.** Seasonal changes of dissolved nutrients within and around Port Foster, Deception Island, Antarctica: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1685-1705, illus. incl. 2 tables, sketch maps, 27 ref., June 2003.

**57005509**

**Baldwin, R. J. (Scripps Institution of Oceanography, Marine Biology Research Division, La Jolla, CA) and Smith, K. L., Jr.**

Temporal dynamics of particulate matter fluxes and sediment community response in Port Foster, Deception Island, Antarctica: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1707-1725, illus. incl. 3 tables, sketch maps, 42 ref., June 2003.

**57005510**

**Gray, Sarah C. (University of San Diego, Marine and Environmental Studies Program, San Diego, CA); Sturz, Anne A.; Bruns, Michelle D.; Marzan, Rikki L.; Dougherty, Daniella; Law, Hilary B.; Brackett, Justin E. and Marcou, Melina.**

Composition and distribution of sediments and benthic foraminifera in a submerged caldera after 30 years of volcanic quiescence: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1727-1751, illus. incl. 4 tables, sketch maps, 61 ref., June 2003. NSF Grant OPP-9702707.

**57005511**

**Kaufmann, Ronald S. (University of San Diego, Marine and Environmental Studies Program, San Diego, CA); Fisher, Erin C.; Gill, Walthus H.; King, Andrew L.; Laubacher, Matthew and Sullivan, Brian.**

Temporal patterns in the distribution, biomass and community structure of macrozooplankton and micronekton within Port Foster, Deception Island, Antarctica: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1765-1785, illus. incl. 3 tables, sketch map, 47 ref., June 2003. NSF Grant OPP-97-27077.

**57005512**

**Cullen, M. (University of San Diego, Marine and Environmental Studies Program, San Diego, CA); Kaufmann, Ronald S. and Lowery, M. S.**

Seasonal variation in biochemical indicators of physiological status in *Euphausia superba* from Port Foster, Deception Island, Antarctica: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1787-1798, illus. incl. 3 tables, 31 ref., June 2003. NSF Grant OPP-97-27077.

**57005513**

**Lovell, Lawrence L. (University of California San Diego, Scripps Institution of Oceanography, La Jolla, CA) and Trego, Kent D.**

The epibenthic megafaunal and benthic infaunal invertebrates of Port Foster, Deception Island (South Shetland Islands, Antarctica): *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1799-1819, illus. incl. 9 tables, sketch map, 37 ref., June 2003.

57005514

**Cranmer, T. L. (University of San Diego, Marine and Environmental Studies Program, San Diego, CA); Ruhl, Henry A.; Baldwin, R. J. and Kaufmann, Ronald S.**

Spatial and temporal variation in the abundance, distribution and population structure of epibenthic megafauna in Port Foster, Deception Island: *in* Erupt; ecosystem studies at Deception Island, Antarctica (Smith, K. L., Jr., editor), **Deep-Sea Research. Part II: Topical Studies in Oceanography**, 50(10-11), p. 1821-1842, illus. incl. 6 tables, sketch map, 57 ref., June 2003.

57005515

**Andrews, John T. (University of Colorado, Department of Geological Sciences, Boulder, CO) and Cartee-Schoolfield, Stephanie.**

Late Quaternary lithofacies, provenance, and depositional environments (~12-30 cal ka), north and south of the Denmark Strait: **Marine Geology**, 199(1-2), p. 65-82, illus. incl. strat. cols., 1 table, sketch maps, 82 ref., August 1, 2003. NSF Grants OPP-9615935, ATM95-31397 and OPP-004233.

57005516

**Laurioll, B. (University of Ottawa, Department of Geography, Ottawa, ON, Canada); Deschamps, E.; Carrier, L.; Grimm, W.; Morlan, R. and Talon, B.**

Cave infill and associated biotic remains as indicators of Holocene environment in Gatineau Park (Quebec, Canada): **Canadian Journal of Earth Sciences = Revue Canadienne des Sciences de la Terre**, 40(6), p. 789-803 (French sum.), illus. incl. 1 plate, 11 tables, geol. sketch maps, 67 ref., June 2003.

57005517

**Bowling, Laura C. (University of Washington, Department of Civil and Environmental Engineering, Seattle, WA); Lettenmaier, Dennis P.; Nijssen, Bart; Graham, L. Phil; Clark, Douglas B.; El Maayar, Mustapha; Essery, Richard; Goers, Sven; Gusev, Yeugeniy M.; Habets, Florence; van den Hurk, Bart; Jin, Jiming; Kahan, Daniel; Lohmann, Dag; Ma, Xieyao; Mahanama, Sarith; Mocko, David; Nasonova, Olga; Niu, Guo-Yue; Samuelsson, Patrick; Shmakin, Andrey B.; Takata, Kumiko; Versegghy, Diana; Viterbo, Pedro; Xia, Youlong; Xue, Yongkang and Yang, Zong-Liang.**

Simulation of high-latitude hydrological processes in the Torne-Kalix Basin; PILPS Phase 2(e); 1, Experiment description and summary intercomparisons: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 1-30, illus. incl. 7 tables, sketch map, 78 ref., July 2003.

57005518

**Nijssen, Bart (University of Washington, Department of Civil and Environmental Engineering, Seattle, WA); Bowling, Laura C.; Lettenmaier, Dennis P.; Clark, Douglas B.; El Maayar, Mustapha; Essery, Richard; Goers, Sven; Gusev, Yeugeniy M.; Habets, Florence; van den Hurk, Bart; Jin, Jiming; Kahan, Daniel; Lohmann, Dag; Ma, Xieyao; Mahanama, Sarith; Mocko, David; Nasonova, Olga; Niu, Guo-Yue; Samuelsson, Patrick; Shmakin, Andrey B.; Takata, Kumiko; Versegghy, Diana; Viterbo, Pedro; Xia, Youlong; Xue, Yongkang and Yang, Zong-Liang.**

Simulation of high latitude hydrological processes in the Torne-Kalix Basin; PILPS Phase 2(e); 2, Comparison of model results with observations: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 31-53, illus. incl. 3 tables, sketch map, 15 ref., July 2003.

**57005519**

**Bowling, Laura C. (University of Washington, Department of Civil and Environmental Engineering, Seattle, WA); Lettenmaier, Dennis P.; Nijssen, Bart; Polcher, Jan; Koster, Randal D. and Lohmann, Dag.**

Simulation of high-latitude hydrological processes in the Torne-Kalix Basin; PILPS Phase 2(e); 3, Equivalent model representation and sensitivity experiments: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 55-71, illus. incl. 3 tables, 6 ref., July 2003. Includes appendix.

**57005520**

**Jin, Jiming (University of Arizona, Department of Hydrology and Water Resources, Tucson, AZ); Gao, X. and Sorooshian, S.**

Impacts of model calibration on high-latitude land-surface processes; PILPS 2(e) calibration/validation experiments: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 73-80, illus. incl. 1 table, 14 ref., July 2003.

**57005521**

**Samuelsson, Patrick (Swedish Meteorological and Hydrological Institute, Rosby Centre, Norrköping, Sweden); Bringfelt, Bjorn and Graham, L. Phil.**

The role of aerodynamic roughness for runoff and snow evaporation in land-surface schemes; comparison of uncoupled and coupled simulations: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 93-99, illus. incl. sketch map, 19 ref., July 2003.

**57005522**

**Essery, Richard (Met Office, Bracknell, United Kingdom).**

Aggregated and distributed modelling of snow cover for a high-latitude basin: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 115-120, illus. incl. 1 table, 20 ref., July 2003.

**57005523**

**Pitman, A. J. (Macquarie University, Department of Physical Geography, North Ryde, N.S.W., Australia); Xia, Y.; Leplastrier, M. and Henderson-Sellers, A.**

The CHameleon Surface Model; description and use with the PILPS Phase 2(e) forcing data: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 121-135, illus. incl. 2 tables, 34 ref., July 2003.

**57005524**

**Habets, Florence (Météo-France, Centre National de Recherches Meteorologiques, Toulouse, France); Boone, Aaron and Noilhan, Joël.**

Simulation of a Scandinavian basin using the diffusion transfer version of ISBA: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 137-149, illus. incl. 1 table, 27 ref., July 2003.

**57005525**

**Cherkauer, Keith A. (University of Washington, Department of Civil and Environmental Engineering, Seattle, WA); Bowling, Laura C. and Lettenmaier, Dennis P.**

Variable infiltration capacity cold land process model updates: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 151-159, illus. incl. block diag., 20 ref., July 2003.

**57005526**

**Essery, Richard (Met Office, Bracknell, United Kingdom) and Clark, Douglas B.**

Developments in the MOSES 2 land-surface model for PILPS 2e: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 161-164, illus. incl. 1 table, 16 ref., July 2003.

**57005527**

**van den Hurk, Bart (Royal Netherlands Meteorological Institute, De Bilt, Netherlands) and Viterbo, Pedro.**

The Torne-Kalix PILPS 2(e) experiment as a test bed for modifications to the ECMWF land surface scheme: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 165-173, illus. incl. 1 table, 14 ref., July 2003.

**57005528**

**Yang, Zong-Liang (University of Texas at Austin, Department of Geological Sciences, Austin, TX) and Niu, Guo-Yue.**

The versatile integrator of surface and atmosphere processes; Part 1, Model description: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 175-189, illus., 44 ref., July 2003.

**57005529**

**Niu, Guo-Yue (University of Texas at Austin, Department of Geological Sciences, Austin, TX) and Yang, Zong-Liang.**

The versatile integrator of surface atmospheric processes; Part 2, Evaluation of three topography-based runoff schemes: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 191-208, illus. incl. 6 tables, 21 ref., July 2003.

**57005530**

**Takata, Kumiko (Frontier Research System for Global Change, Yokohama, Japan); Emori, Seita and Watanabe, Tsutomu.**

Development of the minimal advanced treatments of surface interaction and runoff: *in* Project for Intercomparison of Landsurface Parameterization Schemes, Phase 2(e) (Lettenmaier, Dennis P., editor; *et al.*), **Global and Planetary Change**, 38(1-2), p. 209-222, illus. incl. 4 tables, 29 ref., July 2003. Includes appendices.

**57005531**

**Wieczorek, Gerald F. (U. S. Geological Survey, Reston, VA); Jakob, Matthias; Motyka, Roman J.; Zirnheld, Sandra L. and Craw, Patricia.**

Preliminary assessment of landslide-induced wave hazards; Tidal Inlet, Glacier Bay National Park, Alaska: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 03-0100, illus. incl. 3 tables, 48 ref., 2003. WWW. Accessed on Aug. 4, 2003.  
<http://pubs.usgs.gov/of/2003/ofr-03-100/>

**57005532**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Vath, S. C.; Vanney, J. R.; Johnson, G. L. and Wannesson, J.**

Dibble Glacier and environs (lat 61°30'-67°S, long 130°-140°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419, 1 sheet, bathymetric map, 1:900,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005533**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Vath, S. C.; Young, J. D.; Vanney, J. R.; Johnson, G. L.; Wannesson, J.; Anderson, J. B. and Domack, E. W.**

Buffon Canyon and environs (lat 64°-68°30'S, long 140°-150°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-B, 1 sheet, bathymetric map, 1:870,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005534**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Vath, S. C.; Young, J. D.; Vanney, J. R.; Johnson, G. L. and Wannesson, J.**

Mawson Peninsula and environs (lat 64°-68°30'S, long 150°-160°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-C, 1 sheet, bathymetric map, 1:870,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005535**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Vath, S. C.; Young, J. D.; Vanney, J. R.; Johnson, G. L. and Dadisman, S. V.**

Balleny Islands and environs (lat 64°-68°30'S, long 160°-170°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-D, 1 sheet, bathymetric map, 1:870,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005536**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Vath, S. C.; Young, J. D.; Vanney, J. R. and Johnson, G. L.**

Terra Nova Canyon and environs (lat 68°30'-71°S, long 150°-160°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-E, 1 sheet, bathymetric map, 1:760,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005537**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Vath, S. C.; Young, J. D.; Dadisman, S. V.; Vanney, J. R.; Johnson, G. L.; Anderson, J. B. and Brake, C. F.**

Oates Canyon/Bank and environs (lat 68°30'-72°30'S, long 160°-170°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-F, 1 sheet, bathymetric map, 1:725,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005538**

**Chase, T. E. (U. S. Geological Survey, Denver, CO); Seekins, B. A.; Vath, S. C.; Young, J. D.; Dadisman, S. V.; Vanney, J. R.; Johnson, G. L. and Anderson, J. B.**

Possession Islands to Scott Seamounts and environs (lat 68°30'-72°30'S, long 170°-180°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-G, 1 sheet, bathymetric map, 1:725,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005539**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Vath, S. C.; Young, J. D.; Vanney, J. R.; Johnson, G. L. and Dadisman, S. V.**

Hillary Canyon, Iselin Bank, and northern environs (lat 68°30'-72°30'S, long 180°-170°W):

**Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-H, 1 sheet, bathymetric map, 1:725,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005540**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Young, J. D.; Dadisman, S. V.; Vanney, J. R.; Johnson, G. L.; Anderson, J. B. and Myers, N.**

Drygalski Basin and environs (lat 72°30'-75°30'S, long 160°-170°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-I, 1 sheet, bathymetric map, 1:620,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005541**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Young, J. D.; Dadisman, S. V.; Vanney, J. R.; Johnson, G. L.; Anderson, J. B. and Myers, N.**

Joides Basin and environs (lat 72°30'-75°30'S, long 170°E-180°): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-J, 1 sheet, bathymetric map, 1:620,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005542**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Young, J. D.; Dadisman, S. V.; Vanney, J. R. and Johnson, G. L.**

Iselin Bank and southwest environs (lat 72°30'-75°30'S, long 180°-170°W): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-K, 1 sheet, bathymetric map, 1:620,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005543**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Young, J. D.; Dadisman, S. V.; Vanney, J. R.; Johnson, G. L.; Anderson, J. B. and Myers, N.**

Ross Island and environs (lat 75°30'-78°30'S, long 160°-170°E): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-L, 1 sheet, bathymetric map, 1:470,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005544**

**Chase, T. E. (U. S. Geological Survey, Menlo Park, CA); Seekins, B. A.; Young, J. D.; Dadisman, S. V.; Vanney, J. R.; Johnson, G. L.; Anderson, J. B. and Myers, N.**

Ross Bank and environs (lat 75°30'-78°30'S, long 170° E-180°): **Open-File Report - U. S. Geological Survey**, U. S. Geological Survey, Reston, VA, Rep. No. OF 02-0419-M, 1 sheet, bathymetric map, 1:470,000, 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.

**57005545**

**Chase, T. E. (U. S. Geological Survey) and Seekins, B. A., editors.**

Marine topography of offshore Antarctica; Clarie Coast to Ross Ice Shelf (long 130° E to 170° W); explanatory text: **Open-File Report - U. S. Geological Survey**, Rep. No. OF 02-0419-N, 3 p., sketch map, 8 ref., 2002. *Available from:* U. S. Geol. Surv., Denver, CO, United States.